

APPENDIX A. LIST OF MEASURES AND SUMMARY OF RESULTS FOR FIGURES

A.1. Access to Care

Measures Included in Figure 11: Number and percentage of access measures for which measures were improving, not changing, or worsening, 2000 through 2016 or 2017

Improving	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Children who had any appointments for routine healthcare in the last 12 months who sometimes or never got an appointment for routine care as soon as needed	-3.82	0.0	0.00	MEPS	15 (2002-2016)
People in fair or poor health with a specific source of ongoing care	-3.22	0.0	0.01	NHIS	9 (2009-2017)
People with a specific source of ongoing care	-2.91	0.0	0.00	NHIS	9 (2009-2017)
People under age 65 with health insurance	-2.29	0.0	0.00	NHIS	18 (2000-2017)
Adults who had a doctor's office or clinic visit in the last 12 months and needed care, tests, or treatment who sometimes or never found it easy to get the care, tests, or treatment	-2.19	0.0	0.01	MEPS	9 (2008-2016)
People under age 65 who were uninsured all year	-2.05	0.0	0.04	MEPS	15 (2002-2016)
People with a usual source of care who is somewhat to very difficult to contact during regular business hours over the telephone	-1.89	0.0	0.00	MEPS	15 (2002-2016)
Adults who needed care right away for an illness, injury, or condition in the last 12 months who sometimes or never got care as soon as needed	-1.58	0.0	0.00	MEPS	15 (2002-2016)
People who were unable to get or delayed in getting needed medical care in the last 12 months	-1.36	0.0	0.00	MEPS	15 (2002-2016)
People under age 65 with any period of uninsurance during the year	-1.29	0.0	0.02	MEPS	15 (2002-2016)
Adults who had any appointments for routine healthcare in the last 12 months who sometimes or never got an appointment for routine care as soon as needed	-1.02	0.0	0.00	MEPS	15 (2002-2016)

Not Changing	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Children who needed to see a specialist in the last 12 months who sometimes or never found it easy to see a specialist	2.23	0.0		MEPS	9 (2008-2016)
Adults who reported getting the help or advice they needed when they contacted their home health provider in the last 2 months of care	0.71	0.0		HHCAHPS	6 (2012-2017)

Appendix A: List of Measures and Summary of Results for Figures

Not Changing	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Adults who needed to see a specialist in the last 12 months who sometimes or never found it easy to see a specialist	0.39	0.0		MEPS	9 (2008-2016)
People with a usual primary care provider	0.32	0.0		MEPS	15 (2002-2016)
People with a usual source of care, excluding hospital emergency rooms, who has office hours at night or on weekends	0.21	0.0		MEPS	15 (2002-2016)
People who were unable to get or delayed in getting needed prescription medicines in the last 12 months	0.07	0.0		MEPS	15 (2002-2016)
People who were unable to get or delayed in getting needed dental care in the last 12 months	-0.62	0.0		MEPS	15 (2002-2016)

Worsening	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Adults age 65 and over with any private health insurance	2.43	0.0	0.00	NHIS	18 (2000-2017)
Children who had a doctor's office or clinic visit in the last 12 months and needed care, tests, or treatment who sometimes or never found it easy to get the care, tests, or treatment	2.34	0.0	0.01	MEPS	9 (2008-2016)
People under age 65 with any private health insurance	1.38	0.0	0.00	NHIS	18 (2000-2017)

Measures included in Figure 22: Number and percentage of access measures for which members of selected groups experienced better, same, or worse access to care compared with reference group, 2016 or 2017

Poor Households vs. High-Income Households

Poor Households Better Than High-Income Households	Relative Difference	Z Score	Data Source	Data Year
None				

Poor Households Same as High-Income Households	Relative Difference	Z Score	Data Source	Data Year
People with a usual source of care, excluding hospital emergency rooms, who has office hours at night or on weekends	6.93	2.1	MEPS	2016

Poor Households Worse Than High-Income Households	Relative Difference	Z Score	Data Source	Data Year
People under age 65 with any private health insurance	780.00	74.0	NHIS	2017
People under age 65 with health insurance	358.97	19.23	NHIS	2017
People under age 65 who were uninsured all year	213.9	11.29	MEPS	2016
People under age 65 with any period of uninsurance during the year	188.24	16.46	MEPS	2016
People who were unable to get or delayed in getting needed dental care in the last 12 months	173.01	7.14	MEPS	2016
Adults who needed care right away for an illness, injury, or condition in the last 12 months who sometimes or never got care as soon as needed	165.79	6.4	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months and needed care, tests, or treatment who sometimes or never found it easy to get the care, tests, or treatment	138.68	6.19	MEPS	2016
People with a specific source of ongoing care	128.57	11.59	NHIS	2017
Children who had a doctor's office or clinic visit in the last 12 months and needed care, tests, or treatment who sometimes or never found it easy to get the care, tests, or treatment	115.06	2.43	MEPS	2016
Adults age 65 and over with any private health insurance	99.02	18.4	NHIS	2017
Adults who needed to see a specialist in the last 12 months who sometimes or never found it easy to see a specialist	91.67	6.93	MEPS	2016
Children who needed to see a specialist in the last 12 months who sometimes or never found it easy to see a specialist	83.45	2.94	MEPS	2016
Children who had any appointments for routine healthcare in the last 12 months who sometimes or never got an appointment for routine care as soon as needed	82.5	2.58	MEPS	2016
People in fair or poor health with a specific source of ongoing care	76.74	2.83	NHIS	2017

Poor Households Worse Than High-Income Households	Relative Difference	Z Score	Data Source	Data Year
People who were unable to get or delayed in getting needed medical care in the last 12 months	54.41	3.71	MEPS	2016
People who were unable to get or delayed in getting needed prescription medicines in the last 12 months	46.41	3.18	MEPS	2016
People with a usual primary care provider	32.04	5.41	MEPS	2016
Adults who had any appointments for routine healthcare in the last 12 months who sometimes or never got an appointment for routine care as soon as needed	30.83	2.95	MEPS	2016
People with a usual source of care who is somewhat to very difficult to contact during regular business hours over the telephone	26.52	2.73	MEPS	2016

Blacks vs. Whites

Measures for Blacks Better Than Whites	Relative Difference	Z Score	Data Source	Data Year
People who were unable to get or delayed in getting needed medical care in the last 12 months	-30.93	-3.87	MEPS	2016

Measures for Blacks Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Children who had a doctor’s office or clinic visit in the last 12 months and needed care, tests, or treatment who sometimes or never found it easy to get the care, tests, or treatment	59.74	1.82	MEPS	2016
People in fair or poor health with a specific source of ongoing care	19.00	1.06	NHIS	2017
People who were unable to get or delayed in getting needed dental care in the last 12 months	15.02	1.45	MEPS	2016
Children who needed to see a specialist in the last 12 months who sometimes or never found it easy to see a specialist	14.29	0.57	MEPS	2016
People with a specific source of ongoing care	6.14	0.92	NHIS	2017
People under age 65 with health insurance	5.66	1.03	NHIS	2017
People under age 65 who were uninsured all year	5.19	0.62	MEPS	2016
Adults who reported getting the help or advice they needed when they contacted their home health provider in the last 2 months of care	2.34	18.63	HHCAHPS	2017
People with a usual source of care who is somewhat to very difficult to contact during regular business hours over the telephone	-4.26	-0.64	MEPS	2016
People with a usual source of care, excluding hospital emergency rooms, who has office hours at night or on weekends	-5.27	-1.74	MEPS	2016

Measures for Blacks Same as Whites	Relative Difference	Z Score	Data Source	Data Year
People who were unable to get or delayed in getting needed prescription medicines in the last 12 months	-15.96	-1.65	MEPS	2016

Measures for Blacks Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Adults who had a doctor's office or clinic visit in the last 12 months and needed care, tests, or treatment who sometimes or never found it easy to get the care, tests, or treatment	81.15	5.27	MEPS	2016
Children who had any appointments for routine healthcare in the last 12 months who sometimes or never got an appointment for routine care as soon as needed	69.39	2.81	MEPS	2016
Adults who needed care right away for an illness, injury, or condition in the last 12 months who sometimes or never got care as soon as needed	67.01	5.19	MEPS	2016
People under age 65 with any private health insurance	56.37	14.65	NHIS	2017
Adults who needed to see a specialist in the last 12 months who sometimes or never found it easy to see a specialist	37.84	3.68	MEPS	
Adults who had any appointments for routine healthcare in the last 12 months who sometimes or never got an appointment for routine care as soon as needed	35.71	4.02	MEPS	2016
Adults age 65 and over with any private health insurance	31.99	8.65	NHIS	2017
People under age 65 with any period of uninsurance during the year	22.22	3.35	MEPS	2016
People with a usual primary care provider	22.12	4.62	MEPS	2016

Asians vs. Whites

Measures for Asians Better Than Whites	Relative Difference	Z Score	Data Source	Data Year
People who were unable to get or delayed in getting needed prescription medicines in the last 12 months	-68.88	-7.44	MEPS	2016
People who were unable to get or delayed in getting needed medical care in the last 12 months	-30.23	-2.5	MEPS	2016
People under age 65 with health insurance	-30.19	-4.77	NHIS	2017
People under age 65 who were uninsured all year	-28.51	-2.31	MEPS	2016
People under age 65 with any private health insurance	-15.29	-3.23	NHIS	2017
People with a usual source of care, excluding hospital emergency rooms, who has office hours at night or on weekends	-13.71	-2.71	MEPS	2016

Measures for Asians Same as Whites	Relative Difference	Z Score	Data Source	Data Year
People with a specific source of ongoing care	10.53	1.15	NHIS	2017
Adults who reported getting the help or advice they needed when they contacted their home health provider in the last 2 months of care	1.11	2.99	HHCAHPS	2017
People with a usual source of care who is somewhat to very difficult to contact during regular business hours over the telephone	-0.71	-0.07	MEPS	2016
People under age 65 with any period of uninsurance during the year	-11.11	-1.47	MEPS	2016
People who were unable to get or delayed in getting needed dental care in the last 12 months	-17.38	-1.15	MEPS	2016
People in fair or poor health with a specific source of ongoing care	-24.00	-0.8	NHIS	2017

Measures for Asians Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Children who had any appointments for routine healthcare in the last 12 months who sometimes or never got an appointment for routine care as soon as needed	112.24	2.44	MEPS	2016
Adults who had any appointments for routine healthcare in the last 12 months who sometimes or never got an appointment for routine care as soon as needed	104.76	5.61	MEPS	2016
Adults who needed care right away for an illness, injury, or condition in the last 12 months who sometimes or never got care as soon as needed	76.29	2.34	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months and needed care, tests, or treatment who sometimes or never found it easy to get the care, tests, or treatment	70.84	3.1	MEPS	2016
Adults who needed to see a specialist in the last 12 months who sometimes or never found it easy to see a specialist	59.46	3.3	MEPS	2016
Adults age 65 and over with any private health insurance	39.03	7.76	NHIS	2017
People with a usual primary care provider	24.78	3.68	MEPS	2016

American Indians and Alaska Natives vs. Whites

Measures for American Indians and Alaska Natives Better Than Whites	Relative Difference	Z Score	Data Source	Data Year
None				

Measures for American Indians and Alaska Natives Same as Whites	Relative Difference	Z Score	Data Source	Data Year
People with a usual primary care provider	17.7	0.9	MEPS	2016

Measures for American Indians and Alaska Natives Same as Whites	Relative Difference	Z Score	Data Source	Data Year
People in fair or poor health with a specific source of ongoing care	17.0	0.34	NHIS	2017
People with a specific source of ongoing care	15.79	0.66	NHIS	2017
People with a usual source of care, excluding hospital emergency rooms, who has office hours at night or on weekends	15.29	1.07	MEPS	2016
People with a usual source of care who is somewhat to very difficult to contact during regular business hours over the telephone	12.06	0.44	MEPS	2016
Adults who reported getting the help or advice they needed when they contacted their home health provider in the last 2 months of care	-2.59	-4.2	HHCAHPS	2017

Measures for American Indians and Alaska Natives Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
People under age 65 who were uninsured all year	201.66	4.08	MEPS	2016
People under age 65 with health insurance	153.77	5.23	NHIS	2017
People under age 65 with any period of uninsurance during the year	111.64	4.86	MEPS	2016
People under age 65 with any private health insurance	100.32	9.17	NHIS	2017
Adults age 65 and over with any private health insurance	50.1	3.59	NHIS	2017

Native Hawaiians/Pacific Islanders vs. Whites

Measures for Native Hawaiians/Pacific Islanders Better Than Whites	Relative Difference	Z Score	Data Source	Data Year
None				

Measures for Native Hawaiians/Pacific Islanders Same as Whites	Relative Difference	Z Score	Data Source	Data Year
People with a specific source of ongoing care	76.32	1.52	NHIS	2017
People under age 65 with any private health insurance	43.31	1.72	NHIS	2017
People under age 65 with health insurance	5.66	0.19	NHIS	2017
Adults who reported getting the help or advice they needed when they contacted their home health provider in the last 2 months of care	1.11	1.12	HHCAHPS	2017

Measures for Native Hawaiians/Pacific Islanders Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
None				

Hispanics vs. Non-Hispanic Whites

Measures for Hispanics Better Than Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
People who were unable to get or delayed in getting needed prescription medicines in the last 12 months	-53.66	-6.92	MEPS	2016
People who were unable to get or delayed in getting needed medical care in the last 12 months	-38.68	-4.69	MEPS	2016
People who were unable to get or delayed in getting needed dental care in the last 12 months	-19.22	-2.33	MEPS	2016

Measures for Hispanics Same as Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
People with a usual source of care who is somewhat to very difficult to contact during regular business hours over the telephone	6.47	0.9	MEPS	2016
People with a usual source of care, excluding hospital emergency rooms, who has office hours at night or on weekends	3.9	1.24	MEPS	2016

Measures for Hispanics Worse Than Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
People under age 65 who were uninsured all year	207.56	11.94	MEPS	2016
People under age 65 with health insurance	178.38	16.01	NHIS	2017
Children who had any appointments for routine healthcare in the last 12 months who sometimes or never got an appointment for routine care as soon as needed	138.89	4.14	MEPS	2016
People under age 65 with any private health insurance	123.17	27.1	NHIS	2017
People under age 65 with any period of uninsurance during the year	104	12.45	MEPS	2016
People in fair or poor health with a specific source of ongoing care	85.88	2.89	NHIS	2017
People with a specific source of ongoing care	83.51	9.48	NHIS	2017
Adults who needed care right away for an illness, injury, or condition in the last 12 months who sometimes or never got care as soon as needed	81.4	4.23	MEPS	2016
Children who had a doctor's office or clinic visit in the last 12 months and needed care, tests, or treatment who sometimes or never found it easy to get the care, tests, or treatment	75.0	2.16	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months and needed care, tests, or treatment who sometimes or never found it easy to get the care, tests, or treatment	66.4	3.8	MEPS	2016
Adults age 65 and over with any private health insurance	62.55	15.65	NHIS	2017

Measures for Hispanics Worse Than Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Children who needed to see a specialist in the last 12 months who sometimes or never found it easy to see a specialist	55.26	2.47	MEPS	2016
People with a usual primary care provider	49.51	8.86	MEPS	2016
Adults who needed to see a specialist in the last 12 months who sometimes or never found it easy to see a specialist	36.36	3.41	MEPS	2016
Adults who had any appointments for routine healthcare in the last 12 months who sometimes or never got an appointment for routine care as soon as needed	28.69	3.0	MEPS	2016

APPENDIX A. LIST OF MEASURES AND SUMMARY OF RESULTS FOR FIGURES

A.2. Quality Trends

Measures included in Figure 33: Number and percentage of all quality measures that were improving, not changing, or worsening, total and by priority area, from 2000 through 2012, 2014, 2016, or 2017

Person-Centered Care

Improving	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-4.15	0.0		MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-3.5	0.0	0.00	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-3.32	0.0	0.00	MEPS	15 (2002-2016)
Adults who reported that home health providers talk about pain in the last 2 months of care	-3.21	0.0	0.00	HCAHPS	6 (2012-2017)
Adult hospital patients who sometimes or never had good communication about medications they received in the hospital	-3.21	0.0	0.00	HCAHPS	9 (2009-2017)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-2.99	0.0	0.00	MEPS	6 (2011-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-2.77	0.0	0.00	MEPS	15 (2002-2016)
Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-2.33	0.0	0.00	MEPS	15 (2002-2016)
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-2.3	0.0	0.00	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-1.8	0.0	0.00	MEPS	6 (2011-2016)
Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care	-1.32	0.0	0.00	HCAHPS	6 (2012-2017)

Improving	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Adults who reported being told what care and services they would get when they first started getting home health care	-1.22	0.0	0.00	HHCAHPS	6 (2012-2017)
Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care	-1.1	0.0	0.02	HHCAHPS	6 (2012-2017)

Not Changing	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Adults who reported getting the help or advice they needed when they contacted their home health provider in the last 2 months of care	0.89	0.0	0.00	HHCAHPS	6 (2012-2017)
Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care	-0.11	0.0	0.759	HHCAHPS	6 (2012-2017)
Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care	-0.23	0.0	0.042	HHCAHPS	6 (2012-2017)
Adults who reported that home health providers always listen carefully to them in the last 2 months of care	-0.48	0.0	0.092	HHCAHPS	6 (2012-2017)
Adults who reported that home health providers always kept them informed about when they would arrive at their home in the last 2 months of care	-0.64	0.0	0.008	HHCAHPS	6 (2012-2017)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-0.7	0.0	0.00	MEPS	6 (2011-2016)

Worsening	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
None					

Patient Safety

Improving	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Inpatient adverse events in adults receiving knee replacement	-12.31	0.0	0.014	MPSMS	8 (2009-2016)
Hospital patients with an anticoagulant-related adverse drug event to low-molecular-weight heparin (LMWH) and factor Xa	-11.33	0.0	0.00	MPSMS	8 (2009-2016)
Inpatient adverse events in adults receiving hip joint replacement due to degenerative conditions	-9.52	0.0	0.046	MPSMS	8 (2009-2016)
Adult surgery patients with postoperative pneumonia events	-7.96	0.0	0.01	MPSMS	8 (2009-2016)

Improving	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Home health care patients whose management of oral medications improved	-7.7	0.0	0.028	OASIS	4 (2013-2016)
Inpatient adverse events in adults receiving hip joint replacement due to fracture	-7.11	0.0	0.021	MPSMS	8 (2009-2016)
Hospital patients who received a hypoglycemic agent who had an adverse drug events with hypoglycemic agents	-6.8	0.0	0.00	MPSMS	8 (2009-2016)
Adults age 65 and over who received in the calendar year at least 1 of 11 prescription medications that should be avoided in older adults	-6.35	0.0	0.00	MEPS	15 (2002-2016)
Adverse drug event with IV heparin in adult hospital patients who received an anticoagulant	-6.08	0.0	0.014	MPSMS	8 (2009-2016)
Adult surgery patients with catheter-associated urinary tract infection	-5.03	0.0	0.006	MPSMS	8 (2009-2016)
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-4.24	0.0	0.00	MEPS	15 (2002-2016)
Mechanical adverse events in adult patients receiving central venous catheter placement	-3.83	0.0	0.014	MPSMS	8 (2009-2016)
Adults who reported a home health provider talking with them about how to set up their home so they can move around safely when they first started getting home health care	-1.52	0.0	0.00	HCAHPS	6 (2012-2017)

Not Changing	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Adults who reported that home health providers talked with them about when to take medicines in the last 2 months of care	0.65	0.0	0.002	HCAHPS	6 (2012-2017)
Adults who reported that home health providers talked with them about the purpose for taking their new or changed prescription medicines in the last 2 months of care	0.6	0.0	0.004	HCAHPS	6 (2012-2017)
Adults home health patients age 18 and over who reported that home health providers talked with them about the side effects of medicines in the last 2 months of care	0.53	0.0	0.002	HCAHPS	6 (2012-2017)
Adults who reported a home health provider talking with them about all the prescription and over-the-counter medicines they were taking when they first started getting home health care	0.02	0.002	0.941	HCAHPS	6 (2012-2017)
Adult surgery patients with postoperative venous thromboembolic events	-1.27	0.049	0.803	MPSMS	8 (2009-2016)

Not Changing	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Hospital patients with an anticoagulant-related adverse drug event to warfarin	-2.74	0.028	0.366	MPSMS	8 (2009-2016)
Bloodstream infection in adult patients receiving central venous catheter placement	-4.05	0.062	0.573	MPSMS	4 (2009-2012)
Worsening	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Adults who reported a home health provider asking to see all the prescription and over-the-counter medicines they were taking, when they first started getting home health care	1.69	0.002	0.001	HHCAPHS	6 (2012-2017)

Healthy Living

Improving	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-20.15	0.0	0.00	NIS_TEEN	9 (2008-2016)
Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-17.05	0.0	0.00	NIS_TEEN	9 (2008-2016)
Hospital patients who received influenza vaccination	-15.08	0.1	0.09	QIO	5 (2012-2016)
Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	-14.91	0.0	0.00	NIS_TEEN	9 (2008-2016)
Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	-13.07	0.0	0.00	NIS_TEEN	9 (2008-2016)
Home health care patients whose ability to get in and out of bed improved	-9.05	0.0	0.03	OASIS	4 (2013-2016)
Home health care patients whose ability to walk or move around improved	-8.87	0.0	0.02	OASIS	4 (2013-2016)
Adolescent males ages 16-17 who received 3 or more doses of human papillomavirus (HPV) vaccine	-8.7	0.0	0.00	NIS_TEEN	5 (2012-2016)
Home health care patients whose shortness of breath decreased	-8.6	0.0	0.04	OASIS	4 (2013-2016)
Home health care patients whose pain when moving around decreased	-7.18	0.0	0.08	OASIS	4 (2013-2016)

Improving	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Home health care patients whose bathing improved	-7.15	0.0	0.04	OASIS	4 (2013-2016)
Adolescent males ages 13-15 who received 3 or more doses of human papillomavirus (HPV) vaccine	-7.01	0.0	0.00	NIS_TEEN	5 (2012-2016)
Adults who received a blood cholesterol measurement in the last 5 years	-6.00	0.0	0.00	NHIS	15 (2003-2017)
Adolescents females ages 16-17 who received 3 or more doses human papillomavirus vaccine	-5.38	0.0	0.00	NIS_TEEN	9 (2008-2016)
Home health patients who had improvement in upper body dressing	-5.33	0.0	0.06	OASIS	4 (2013-2016)
Children ages 19-35 months who received 1 or more doses of varicella vaccine	-5.19	0.0	0.00	NIS	16 (2001-2016)
Children who had their height and weight measured by a health provider within the past 2 years	-5.02	0.0	0.00	MEPS	15 (2002-2016)
Children ages 0-17 with wellness checkup in the past 12 months	-4.31	0.0	0.00	NHIS	18 (2000-2017)
Colorectal cancer diagnosed at advanced stage (tumors diagnosed at regional or distant stage) per 100,000 population age 50 and over	-3.28	0.0	0.00	NPCR_USCS	16 (2000-2015)
Infants born in the calendar year who received breastfeeding through 3 months	-3.22	0.0	0.00	NIS	7 (2009-2015)
Adolescents females ages 13-15 who received 3 or more doses human papillomavirus vaccine	-3.20	0.0	0.00	NIS_TEEN	9 (2008-2016)
Children ages 3-5 who ever had their vision checked by a health provider	-2.66	0.0	0.00	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-2.65	0.0	0.00	MEPS	15 (2002-2016)
Adults age 65 and over who received an influenza vaccination in the last flu season	-2.60	0.0	0.00	NHIS	13 (2005-2017)
Children ages 19-35 months who received 3 or more doses of polio vaccine	-2.25	0.0	0.00	NIS	16 (2001-2016)
Children ages 6 months to 17 years who received influenza vaccination in the last flu season	-2.15	0.0	0.03	NHIS	8 (2010-2017)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-2.14	0.0	0.00	MEPS	15 (2002-2016)

Appendix A: List of Measures and Summary of Results for Figures

Improving	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Adults ages 18 and over who received influenza vaccination in the last flu season	-1.98	0.0	0.00	NHIS	8 (2010-2017)
Adults age 65 and over who ever received pneumococcal vaccination	-1.81	0.0	0.00	NHIS	18 (2000-2017)
Adults with obesity age 20 and over who had been told by a doctor or health professional that they were overweight	-1.47	0.0	0.05	NHANES	13 (2004-2016)
Cervical cancer diagnosed at advanced stage (all invasive tumors) per 100,000 women age 20 and over	-1.38	0.0	0.00	NPCR_USCS	16 (2000-2015)
Children 0-40 lb for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	-1.36	0.0	0.00	MEPS	15 (2002-2016)
Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-1.35	0.0	0.00	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional to exercise more	-1.29	0.0	0.00	MEPS	15 (2002-2016)
Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-1.02	0.0	0.00	MEPS	15 (2002-2016)

Not Changing	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Hospital patients who received pneumococcal immunization	6.73	0.1	0.57	QIO	4 (2012-2015)
Children ages 2-19 with obesity	0.78	0.0	0.104	NHANES	13 (2004-2016)
Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	0.75	0.0	0.141	NIS	16 (2001-2016)
Adults who had a preventive dental service in the calendar year	0.40	0.0	0.00	MEPS	15 (2002-2016)
Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	0.15	0.0	0.868	NIS	16 (2001-2016)
Adults with a dental visit in the calendar year	0.14	0.0	0.043	MEPS	15 (2002-2016)
Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	0.01	0.0	0.99	NIS	16 (2001-2016)
Live-born infants with low birth weight (less than 2,500 g)	-0.01	0.0	0.924	NVSS_N	11 (2007-2017)

Not Changing	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-0.34	0.0	0.043	MEPS	15 (2002-2016)
Breast cancer diagnosed at advanced stage (regional, distant stage, or local stage with tumor greater than 2 cm) per 100,000 women age 40 and over	-0.49	0.0	0.00	NPCR_USCS	16 (2000-2015)
Home health care patients who stayed at home after an episode of home health care	-0.55	0.0	0.133	OASIS	4 (2013-2016)
Children ages 2-17 who had a preventive dental service in the calendar year	-0.63	0.0	0.00	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-0.66	0.0	0.00	MEPS	15 (2002-2016)
Children ages 2-17 who had a dental visit in the calendar year	-0.67	0.0	0.00	MEPS	15 (2002-2016)
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-0.68	0.0	0.00	NHIS	18 (2000-2017)
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-0.70	0.0	0.008	MEPS	15 (2002-2016)
Children with obesity 2-19 years of age who had been told by a doctor or health professional that they were overweight	-0.73	0.0	0.058	NHIS	18 (2000-2017)
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-0.82	0.0	0.00	MEPS	15 (2002-2016)
Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	-0.96	0.0	0.065	NHIS	8 (2010-2017)
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-1.00	0.0	0.00	NVSS_L	16 (2001-2016)
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-1.23	0.0	0.421	NHIS	15 (2003-2017)
Children ages 5-17 with untreated dental caries	-1.99	0.0	0.174	NHANES	13 (2004-2016)
Worsening	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Women ages 21-65 who received a Pap smear in the last 3 years	2.99	0.0	0.00	NHIS	16 (2000-2015)

Worsening	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Women ages 50-74 who received a mammogram in the last 2 years	1.26	0.0	0.02	NHIS	16 (2000-2015)

Effective Treatment

Improving	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Acute stroke patients for whom IV thrombolytic therapy was initiated at hospital within 3 hours of time last known well	-27.36	0.0	0.02	QIO	4 (2013-2016)
Doctor's office, emergency department, and outpatient department visits where antibiotics were prescribed for a diagnosis of common cold per 10,000 population	-14.92	0.1	0.09	NAMCS_N HAMCS	4 (2011-2014)
Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-14.48	0.0	0.00	NCDB	10 (2005-2014)
Short-stay home health patients who had diabetic foot care and patient education	-12.40	0.0	0.03	OASIS	4 (2013-2016)
Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-8.47	0.0	0.00	NCDB	10 (2005-2014)
HIV infection deaths per 100,000 population	-7.15	0.0	0.00	NVSS_M	17 (2000-2016)
Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy)	-5.79	0.0	0.00	NCDB	10 (2005-2014)
Patients with tuberculosis who completed a curative course of treatment within 1 year of initiation of treatment	-5.02	0.0	0.00	NTBSS	16 (2000-2015)
Hospital patients with heart attack given fibrinolytic medication within 30 minutes of arrival	-3.70	0.0	0.00	QIO	11 (2005-2015)
New HIV cases per 100,000 population age 13 and over	-3.62	0.0	0.00	HIV_AIDSS S	8 (2008-2015)
People age 13 and over living with HIV who know their serostatus	-3.00	0.0	0.00	HIV_AIDSS S	6 (2010-2015)
Colorectal cancer deaths per 100,000 population per year	-2.47	0.0	0.00	NVSS_M	17 (2000-2016)
Lung cancer deaths per 100,000 population per year	-2.23	0.0	0.00	NVSS_M	17 (2000-2016)

Improving	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Breast cancer deaths per 100,000 female population per year	-1.80	0.0	0.00	NVSS_M	17 (2000-2016)
Adult end stage renal disease (ESRD) patients who saw a nephrologist at least 12 months prior to initiation of renal replacement therapy	-1.52	0.0	0.00	USRDS	12 (2005-2016)
Adult hemodialysis patients who use arteriovenous fistulas as the primary mode of vascular access	-1.16	0.0	0.07	USRDS	5 (2012-2016)

Not Changing	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	0.98	0.0	0.00	MEPS	14 (2003-2016)
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	0.93	0.0	0.08	MEPS	15 (2002-2016)
Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure	0.62	0.0	0.00	USRDS	14 (2000-2013)
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	0.56	0.0	0.32	MEPS	15 (2002-2016)
People age 12 and over treated for substance abuse who completed treatment course	0.31	0.0	0.27	TEDSD	12 (2005-2016)
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	0.11	0.0	0.86	NSDUH	9 (2008-2016)
Dialysis patients who were registered on a waiting list for transplantation	-0.17	0.0	0.01	USRDS	17 (2000-2016)
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-0.34	0.0	0.14	MEPS	15 (2002-2016)
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-0.35	0.0	0.59	NHIS	9 (2009-2017)
Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population	-0.69	0.0	0.00	USRDS	16 (2001-2016)
Adults with hypertension with blood pressure less than 140/90 mm/Hg	-0.75	0.0	0.06	NHANES	13 (2004-2016)
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-0.76	0.0	0.22	MEPS	9 (2008-2016)
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-0.89	0.0	0.02	NSDUH	9 (2008-2016)

Appendix A: List of Measures and Summary of Results for Figures

Not Changing	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg	-1.38	0.0	0.13	NHANES	13 (2004-2016)
Adults age 40 and over with diabetes whose condition was diagnosed	-2.57	0.0	0.17	NHANES	13 (2004-2016)

Worsening	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Emergency department visits involving opioid-related diagnoses per 100,000 population	10.19	0.0	0.00	HCUP_NEDS	12 (2005-2016)
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	5.97	0.0	0.00	HCUP	12 (2005-2016)
Suicide deaths among persons age 12 and over per 100,000 population	1.90	0.0	0.00	NVSS_M	9 (2008-2016)

Care Coordination

Improving	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Home health patients who had timely initiation of care	-8.32	0.0	0.07	OASIS	4 (2013-2016)
Adult hospital patients who did not receive good communication about discharge information	-5.27	0.0	0.00	HCAHPS	9 (2009-2017)
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-1.76	0.0	0.00	MEPS	15 (2002-2016)

Not Changing	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Children ages 2-19 who visited emergency department for asthma	1.97	0.0	0.13	NHAMCS	8 (2008-2015)
Adult hospital patients who strongly disagree or disagree that staff took their preferences and those of their family and caregiver into account when deciding what the patient's discharge healthcare would be	0.18	0.0	0.40	HCAHPS	4 (2014-2017)
Home health care patients who had to be admitted to the hospital	-0.64	0.0	0.13	OASIS	4 (2013-2016)

Not Changing	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Adults who reported that home health providers always seem informed and up-to-date about all the cares or treatments they got at home in the last 2 months of care	-0.92	0.0	0.00	HHCAHPS	6 (2012-2017)

Worsening	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
Home health care patients who had an emergency department visit and then hospitalized	3.54	0.0	0.02	OASIS	4 (2013-2016)
Home health care patients who had an emergency department visit without a hospitalization	1.91	0.0	0.06	OASIS	4 (2013-2016)

Affordable Care

Improving	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
None					

Not Changing	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	0.95	0.0	0.35	MEPS	15 (2002-2016)
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	0.81	0.0	0.02	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	0.10	0.0	0.73	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-0.71	0.0	0.24	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-0.88	0.0	0.01	MEPS	15 (2002-2016)

Worsening	Average Annual Percent Change	Standard Error	P Value	Data Source	Number of Years
None					

APPENDIX A. LIST OF MEASURES AND SUMMARY OF RESULTS FOR FIGURES

A.3. Disparities: Race and Ethnicity

Measures included in Figure 57: Number and percentage of quality measures for which members of selected groups experience better, same, or worse quality of care compared with reference group (White), 2013, 2015, 2016, or 2017

Blacks vs. Whites

Priority Area	Measures for Blacks Better Than Whites	Relative Difference	Z Score	Data Source	Data Year
Affordable Care	People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-31.69	-6.29	MEPS	2016
Care Coordination	Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over	-20.22	-8.50	HCUP	2016
Care Coordination	Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years	-15.12	-1.98	HCUP	2016
Care Coordination	Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, adults	-13.83	-9.50	HCUP	2016
Effective Treatment	Suicide deaths among persons age 12 and over per 100,000 population	-60.33	-78.50	NVSS_M	2016
Effective Treatment	Deaths per 1,000 adult hospital admissions with congestive heart failure	-48.46	-27.80	HCUP	2016
Effective Treatment	Deaths per 1,000 adult hospital admissions with pneumonia	-24.30	-9.57	HCUP	2016
Effective Treatment	Stroke patients prescribed statin medication at hospital discharge	-20.00	-7.44	QIO	2015
Effective Treatment	Short-stay home health patients who had diabetic foot care and patient education	-18.52	-17.70	OASIS	2016
Effective Treatment	Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI)	-12.93	-5.75	HCUP	2016
Effective Treatment	Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over	-11.66	-3.35	HCUP	2016
Effective Treatment	Stroke patients with educational material addressing activation of emergency medical system, follow-up after discharge, educations prescribed at discharge, risk factors for stroke, warning signs and symptoms of stroke	-11.11	-4.79	QIO	2015

Appendix A: List of Measures and Summary of Results for Figures

Priority Area	Measures for Blacks Better Than Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Adults who received a blood cholesterol measurement in the last 5 years	-22.83	-3.24	NHIS	2017
Healthy Living	Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	-22.46	-2.60	NIS_TEEN	2016
Healthy Living	Children ages 0-17 with wellness checkup in the past 12 months	-20.13	-2.04	NHIS	2017
Healthy Living	Women ages 21-65 who received a Pap smear in the last 3 years	-15.14	-2.09	NHIS	2015
Healthy Living	Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-10.07	-2.14	MEPS	2016
Patient Safety	Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults	-60.00	-2.12	HCUP	2016
Patient Safety	Adults who reported a home health provider asking to see all the prescription and over-the-counter medicines they were taking, when they first started getting home health care	-53.69	-128.00	HHCAHPS	2017
Patient Safety	Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	-48.39	-21.20	HCUP	2016
Patient Safety	Obstetric trauma per 1,000 instrument-assisted deliveries	-37.42	-14.00	HCUP	2016
Patient Safety	Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults	-30.43	-4.95	HCUP	2016
Patient Safety	Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults	-30.14	-3.77	HCUP	2016
Patient Safety	Birth trauma - injury to neonate per 1,000 selected live births	-27.84	-3.92	HCUP	2016
Patient Safety	Adults who reported a home health provider talking with them about all the prescription and over-the-counter medicines they were taking when they first started getting home health care	-18.01	-28.40	HHCAHPS	2017
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-17.04	-6.76	MEPS	2016
Person-Centered Care	Adult hospital patients who sometimes or never had good communication about medications they received in the hospital	-12.48	-19.90	HCAHPS	2017
Person-Centered Care	Hospice patients whose hospice care team always communicated well with their family caregivers about taking care them	-11.33	-10.30	HOSPICE_CAHP	2017

Priority Area	Measures for Blacks Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Affordable Care	People unable to get or delayed in getting needed dental care due to financial or insurance reasons	-4.76	-0.94	MEPS	2016

Priority Area	Measures for Blacks Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Affordable Care	People without a usual source of care who indicated a financial or insurance reason for not having a source of care	3.62	0.31	MEPS	2016
Affordable Care	People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	7.76	0.98	MEPS	2016
Affordable Care	People unable to get or delayed in getting needed medical care due to financial or insurance reasons	20.58	1.79	MEPS	2016
Care Coordination	Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over	-7.20	-2.47	HCUP	2016
Care Coordination	Home health care patients who had an emergency department visit without a hospitalization	-2.56	-3.54	OASIS	2016
Care Coordination	Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children	1.99	0.57	HCUP	2016
Care Coordination	Adults who reported that home health providers always seem informed and up-to-date about all the cares or treatments they got at home in the last 2 months of care	4.00	13.73	HHCAHPS	2017
Care Coordination	Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years	6.91	0.67	HCUP	2016
Care Coordination	People with a usual source of care who usually asks about prescription medications and treatments from other doctors	8.06	1.08	MEPS	2016
Effective Treatment	Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair	-19.22	-1.69	HCUP	2016
Effective Treatment	Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-12.29	-1.42	NHIS	2017
Effective Treatment	Adults age 40 and over with diabetes whose condition was diagnosed	-4.76	-0.18	NHANES	2016
Effective Treatment	People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months	-4.00	-1.75	NSDUH	2016
Effective Treatment	Stroke patients who received venous thromboembolism (VTE) prophylaxis	-4.00	-1.49	QIO	2015
Effective Treatment	Patients with tuberculosis who completed a curative course of treatment within 1 year of initiation of treatment	0.00	0.00	NTBSS	2015
Effective Treatment	Lung cancer deaths per 100,000 population per year	2.04	2.53	NVSS_M	2016

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Priority Area	Measures for Blacks Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Effective Treatment	People age 12 and over treated for substance abuse who completed treatment course	2.48	12.52	TEDSD	2016
Effective Treatment	Adults with hypertension with blood pressure less than 140/90 mm/Hg	3.37	1.41	NHANES	2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	4.31	0.39	MEPS	2016
Effective Treatment	Acute stroke patients for whom IV thrombolytic therapy was initiated at hospital within 3 hours of time last known well	4.35	0.93	QIO	2016
Effective Treatment	People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months	4.42	1.13	NSDUH	2016
Effective Treatment	People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	4.55	1.64	MEPS	2016
Effective Treatment	Dialysis patients who were registered on a waiting list for transplantation	4.65	13.79	USRDS	2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	6.41	0.73	MEPS	2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	8.79	0.53	MEPS	2016
Effective Treatment	Adult end stage renal disease (ESRD) patients who saw a nephrologist at least 12 months prior to initiation of renal replacement therapy	9.90	17.87	USRDS	2016
Effective Treatment	People age 13 and over living with diagnosed HIV who had at least two CD4 or viral load tests performed at least 3 months apart during the last year, among reporting jurisdictions	9.95	28.99	HIV_AIDSSS	2015
Effective Treatment	Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over	13.98	1.83	HCUP	2016
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	-17.44	-1.49	NIS_TEEN	2016
Healthy Living	Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-12.71	-1.02	NIS_TEEN	2016
Healthy Living	Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-11.11	-1.19	NHIS	2017
Healthy Living	Women ages 50-74 who received a mammogram in the last 2 years	-10.99	-1.54	NHIS	2015

Priority Area	Measures for Blacks Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Adolescent males ages 16-17 who received 3 or more doses of human papillomavirus (HPV) vaccine	-7.72	-1.25	NIS_TEEN	2016
Healthy Living	Adults with obesity who ever received advice from a health professional to exercise more	-7.39	-1.55	MEPS	2016
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-5.08	-0.29	NIS_TEEN	2016
Healthy Living	Adolescents females ages 13-15 who received 3 or more doses human papillomavirus vaccine	-4.76	-0.92	NIS_TEEN	2016
Healthy Living	Adolescents females ages 16-17 who received 3 or more doses human papillomavirus vaccine	-4.18	-0.43	NIS_TEEN	2016
Healthy Living	Children with obesity 2-19 years of age who had been told by a doctor or health professional that they were overweight	-3.24	-0.43	NHANES	2016
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	-1.34	-0.16	NHIS	2017
Healthy Living	Children ages 19-35 months who received 1 or more doses of varicella vaccine	-1.04	-0.07	NIS	2016
Healthy Living	Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-0.19	-0.06	MEPS	2016
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	0.83	0.14	MEPS	2016
Healthy Living	Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	1.45	0.29	MEPS	2016
Healthy Living	Children 0-40 lb for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	2.05	0.20	MEPS	2016
Healthy Living	Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	2.13	0.14	NIS	2016
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	2.50	0.68	MEPS	2016
Healthy Living	Adolescent males ages 13-15 who received 3 or more doses of human papillomavirus (HPV) vaccine	2.56	0.64	NIS_TEEN	2016
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	2.78	0.97	NHIS	2017

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Priority Area	Measures for Blacks Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Children ages 3-5 who ever had their vision checked by a health provider	4.38	0.39	MEPS	2016
Healthy Living	Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	5.12	0.80	MEPS	2016
Healthy Living	Home health care patients whose pain when moving around decreased	6.87	17.65	OASIS	2016
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	7.95	1.72	MEPS	2016
Healthy Living	Children ages 6 months to 17 years who received influenza vaccination in the last flu season	8.86	1.46	NHIS	2017
Healthy Living	Children ages 19-35 months who received 3 or more doses of polio vaccine	15.19	0.89	NIS	2016
Healthy Living	Children who had their height and weight measured by a health provider within the past 2 years	25.40	1.55	MEPS	2016
Healthy Living	Adults age 65 and over who received an influenza vaccination in the last flu season	27.05	1.89	NHIS	2017
Healthy Living	Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	30.23	1.52	NIS	2016
Patient Safety	Adverse drug event with IV heparin in adult hospital patients who received an anticoagulant	-15.91	-0.62	MPSMS	2016
Patient Safety	Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children	-6.45	-0.35	HCUP	2016
Patient Safety	Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults	-4.63	-0.86	HCUP	2016
Patient Safety	Deaths per 1,000 hospital admissions with expected low-mortality	-4.17	-0.45	HCUP	2016
Patient Safety	Adults who reported that home health providers talked with them about when to take medicines in the last 2 months of care	0.00	0.00	HHCAHPS	2017
Patient Safety	Adults home health patients age 18 and over who reported that home health providers talked with them about the side effects of medicines in the last 2 months of care	0.53	3.92	HHCAHPS	2017
Patient Safety	Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions	0.75	0.40	HCUP	2016
Patient Safety	Home health care patients whose management of oral medications improved	1.08	3.92	OASIS	2016

Priority Area	Measures for Blacks Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Patient Safety	Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	1.51	0.10	MEPS	2016
Patient Safety	Adults who reported that home health providers talked with them about the purpose for taking their new or changed prescription medicines in the last 2 months of care	2.34	15.69	HHCAHPS	2017
Patient Safety	Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults	11.90	1.31	HCUP	2016
Patient Safety	Adult surgery patients with catheter-associated urinary tract infection	29.17	1.02	MPSMS	2016
Patient Safety	Adults age 65 and over who received in the calendar year at least 1 of 11 prescription medications that should be avoided in older adults	30.56	0.72	MEPS	2016
Patient Safety	Hospital patients with an anticoagulant-related adverse drug event to low-molecular-weight heparin (LMWH) and factor Xa	32.34	1.14	MPSMS	2016
Patient Safety	Hospital patients with an anticoagulant-related adverse drug event to warfarin	62.20	1.77	MPSMS	2015
Person-Centered Care	Family members who definitely received trainings about taking care their family member from hospice care team	-8.06	-5.34	HOSPICE_CAHPS	2017
Person-Centered Care	Adults who reported that home health providers always kept them informed about when they would arrive at their home in the last 2 months of care	-7.43	-14.70	HHCAHPS	2017
Person-Centered Care	Hospice patients and family caregivers who always got help as soon as they need from hospice care team	-4.89	-3.48	HOSPICE_CAHPS	2017
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-3.41	-1.74	MEPS	2016
Person-Centered Care	Adults who reported being told what care and services they would get when they first started getting home health care	-2.78	-2.94	HHCAHPS	2017
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-1.99	-0.42	MEPS	2016
Person-Centered Care	Adults who reported that home health providers always listen carefully to them in the last 2 months of care	-1.31	-1.96	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care	-1.24	-1.96	HHCAHPS	2017

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Priority Area	Measures for Blacks Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Person-Centered Care	Adults who reported getting the help or advice they needed when they contacted their home health provider in the last 2 months of care	-1.07	-7.84	HCAHPS	2017
Person-Centered Care	Hospice patients who always received enough helps for pain, sadness, breathing, or constipations from hospice care team	0.00	0.00	HOSPICE_CAHPS	2017
Person-Centered Care	Hospice patients whose hospice care team always treated them with dignity and respect, and really cared about them	0.00	0.00	HOSPICE_CAHPS	2017
Person-Centered Care	Family caregivers who rated the hospice care for their family member best (9-10) on a scale of 0-10 (where 0 is the worst and 10 is the best)	2.03	1.26	HOSPICE_CAHPS	2017
Person-Centered Care	Adults who reported that home health providers talk about pain in the last 2 months of care	7.84	7.84	HCAHPS	2017

Priority Area	Measures for Blacks Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Care Coordination	Hospital admissions for asthma per 100,000 population, children ages 2-17	381.05	9.84	HCUP	2016
Care Coordination	Hospital admissions for hypertension per 100,000 population, adults age 18 and over	322.89	28.49	HCUP	2016
Care Coordination	Hospital admissions for asthma per 100,000 population, adults ages 18-39	249.41	20.25	HCUP	2016
Care Coordination	Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults	221.61	23.85	HCUP	2016
Care Coordination	Children ages 2-19 who visited emergency department for asthma	202.41	4.01	NHAMCS	2015
Care Coordination	Hospital admissions for short-term complications of diabetes per 100,000 population, adults	144.89	21.93	HCUP	2016
Care Coordination	Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes	136.89	18.68	HCUP	2016
Care Coordination	Hospital admissions for long-term complications of diabetes per 100,000 population, adults	135.73	19.90	HCUP	2016
Care Coordination	Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17	51.57	3.18	HCUP	2016
Care Coordination	Adult hospital patients who strongly disagree or disagree that staff took their preferences and those of their family and caregiver into	47.15	44.57	HCAHPS	2017

Priority Area	Measures for Blacks Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
	account when deciding what the patient's discharge healthcare would be				
Care Coordination	Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over	46.52	9.79	HCUP	2016
Care Coordination	Hospital admissions for dehydration per 100,000 population, adults age 18 and over	34.78	8.92	HCUP	2016
Care Coordination	Home health patients who had timely initiation of care	30.30	70.71	OASIS	2016
Care Coordination	Home health care patients who had to be admitted to the hospital	19.17	45.11	OASIS	2016
Care Coordination	Adult hospital patients who did not receive good communication about discharge information	14.85	20.60	HCAHPS	2017
Care Coordination	Home health care patients who had an emergency department visit and then hospitalized	12.44	23.53	OASIS	2016
Effective Treatment	New HIV cases per 100,000 population age 13 and over	770.49	114.00	HIV_AIDSSS	2015
Effective Treatment	HIV infection deaths per 100,000 population	620.00	60.80	NVSS_M	2016
Effective Treatment	Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population	170.05	70.98	USRDS	2016
Effective Treatment	Hospital admissions for congestive heart failure per 100,000 population	88.45	16.06	HCUP	2016
Effective Treatment	Breast cancer deaths per 100,000 female population per year	39.29	24.35	NVSS_M	2016
Effective Treatment	People age 13 and over living with diagnosed HIV whose most recent viral load in the last 12 months was under 200 copies/mL	37.72	89.10	HIV_AIDSSS	2015
Effective Treatment	Colorectal cancer deaths per 100,000 population per year	35.77	21.91	NVSS_M	2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg	29.85	2.85	NHANES	2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	28.34	2.85	MEPS	2016
Effective Treatment	People age 13 and over living with HIV who know their serostatus	26.89	22.63	HIV_AIDSSS	2015
Effective Treatment	Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	24.00	2.11	NSDUH	2016

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Priority Area	Measures for Blacks Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Effective Treatment	Adult hemodialysis patients with adequate dialysis - (Kt/V) 12 or higher	22.22	35.78	UMKECC	2017
Effective Treatment	Adult hemodialysis patients who use arteriovenous fistulas as the primary mode of vascular access	21.13	43.29	USRDS	2016
Effective Treatment	Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	16.17	2.33	NSDUH	2016
Effective Treatment	Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure	10.30	30.76	USRDS	2013
Healthy Living	Live-born infants with low birth weight (less than 2,500 g)	85.92	215.70	NVSS_N	2017
Healthy Living	Infant mortality per 1,000 live births, birth weight 2,500 grams or more	68.42	12.75	NVSS_L	2016
Healthy Living	Hospital patients who received pneumococcal immunization	56.90	21.26	QIO	2015
Healthy Living	Children ages 5-17 with untreated dental caries	49.30	3.27	NHANES	2016
Healthy Living	Adults age 65 and over who ever received pneumococcal vaccination	48.78	5.15	NHIS	2017
Healthy Living	Children ages 2-19 with obesity	38.78	2.89	NHANES	2016
Healthy Living	Infants born in the calendar year who received breastfeeding through 3 months	36.17	8.09	NIS	2015
Healthy Living	Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	34.59	2.67	NIS	2016
Healthy Living	Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over	33.78	5.93	HCUP	2016
Healthy Living	Adults with obesity age 20 and over who had been told by a doctor or health professional that they were overweight	30.60	3.51	NHANES	2016
Healthy Living	Adults who had a preventive dental service in the calendar year	30.28	15.20	MEPS	2016
Healthy Living	Children ages 2-17 who had a dental visit in the calendar year	29.40	5.65	MEPS	2016
Healthy Living	Adults with a dental visit in the calendar year	26.83	16.18	MEPS	2016
Healthy Living	Breast cancer diagnosed at advanced stage (regional, distant stage, or local stage with tumor greater than 2 cm) per 100,000 women age 40 and over	23.51	18.66	NPCR_USCS	2015
Healthy Living	Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	22.19	2.25	MEPS	2016
Healthy Living	Children ages 2-17 who had a preventive dental service in the calendar year	20.19	4.60	MEPS	2016
Healthy Living	Home health patients who had improvement in upper body dressing	20.00	49.03	OASIS	2016

Priority Area	Measures for Blacks Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Home health care patients whose ability to get in and out of bed improved	18.85	57.85	OASIS	2016
Healthy Living	Hospital patients who received influenza vaccination	18.64	10.79	QIO	2016
Healthy Living	Colorectal cancer diagnosed at advanced stage (tumors diagnosed at regional or distant stage) per 100,000 population age 50 and over	18.26	13.23	NPCR_USCS	2015
Healthy Living	Home health care patients whose ability to walk or move around improved	17.30	49.03	OASIS	2016
Healthy Living	Cervical cancer diagnosed at advanced stage (all invasive tumors) per 100,000 women age 20 and over	15.24	5.06	NPCR_USCS	2015
Healthy Living	Home health care patients whose bathing improved	14.67	37.26	OASIS	2016
Healthy Living	Adults ages 18 and over who received influenza vaccination in the last flu season	12.92	3.88	NHIS	2017
Healthy Living	Home health care patients who stayed at home after an episode of home health care	12.68	35.30	OASIS	2016
Healthy Living	Home health care patients whose shortness of breath decreased	10.00	26.48	OASIS	2016
Patient Safety	Mechanical adverse events in adult patients receiving central venous catheter placement	97.45	1.98	MPSMS	2015
Patient Safety	Hospital patients who received a hypoglycemic agent who had an adverse drug events with hypoglycemic agents	60.48	3.53	MPSMS	2016
Patient Safety	Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions	54.55	2.68	HCUP	2016
Patient Safety	Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults	40.90	8.99	HCUP	2016
Patient Safety	Postoperative hemorrhage or hematoma with surgical drainage or evacuation per 1,000 surgical hospital discharges, adults	30.59	7.49	HCUP	2016
Patient Safety	Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults	25.13	5.04	HCUP	2016
Patient Safety	Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults	13.58	3.06	HCUP	2016
Patient Safety	Adults who reported a home health provider talking with them about how to set up their home so they can move around safely when they first started getting home health care	11.64	26.48	HHCAHPS	2017

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Priority Area	Measures for Blacks Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	56.93	4.21	MEPS	2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	55.42	3.91	MEPS	2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	41.18	3.55	MEPS	2016
Person-Centered Care	Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	40.43	3.86	MEPS	2016
Person-Centered Care	People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	40.00	4.83	MEPS	2016
Person-Centered Care	Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care	36.51	22.55	HHCAHPS	2017
Person-Centered Care	Family caregivers who received right amount of emotional and spiritual supports from hospice care team	29.52	15.42	HOSPICE_CAHP	2017
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	28.57	2.13	MEPS	2016
Person-Centered Care	Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care	24.14	13.73	HHCAHPS	2017
Person-Centered Care	Family caregivers who would definitely recommend this hospice to their friends and family	21.19	10.12	HOSPICE_CAHP	2017
Person-Centered Care	Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care	17.58	15.69	HHCAHPS	2017

Asians vs. Whites

Priority Area	Measures for Asians Better Than Whites	Relative Difference	Z Score	Data Source	Data Year
Affordable Care	People without a usual source of care who indicated a financial or insurance reason for not having a source of care	-31.16	-2.40	MEPS	2016
Care Coordination	Hospital admissions for short-term complications of diabetes per 100,000 population, adults	-78.51	-28.80	HCUP	2016

Priority Area	Measures for Asians Better Than Whites	Relative Difference	Z Score	Data Source	Data Year
Care Coordination	Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17	-74.80	-8.78	HCUP	2016
Care Coordination	Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over	-73.58	-32.60	HCUP	2016
Care Coordination	Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over	-72.50	-33.20	HCUP	2016
Care Coordination	Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over	-72.16	-36.30	HCUP	2016
Care Coordination	Hospital admissions for asthma per 100,000 population, adults ages 18-39	-69.41	-20.60	HCUP	2016
Care Coordination	Hospital admissions for dehydration per 100,000 population, adults age 18 and over	-68.94	-30.80	HCUP	2016
Care Coordination	Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes	-68.00	-17.10	HCUP	2016
Care Coordination	Hospital admissions for long-term complications of diabetes per 100,000 population, adults	-65.79	-20.00	HCUP	2016
Care Coordination	Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults	-50.97	-12.90	HCUP	2016
Care Coordination	Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years	-44.88	-6.19	HCUP	2016
Care Coordination	Hospital admissions for hypertension per 100,000 population, adults age 18 and over	-42.51	-9.42	HCUP	2016
Care Coordination	Home health care patients who had an emergency department visit without a hospitalization	-30.77	-11.80	OASIS	2016
Care Coordination	Home health care patients who had an emergency department visit and then hospitalized	-30.57	-57.90	OASIS	2016
Care Coordination	Home health care patients who had to be admitted to the hospital	-24.58	-57.90	OASIS	2016
Care Coordination	Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years	-23.68	-2.13	HCUP	2016
Effective Treatment	Hospital admissions for congestive heart failure per 100,000 population	-62.53	-21.60	HCUP	2016
Effective Treatment	HIV infection deaths per 100,000 population	-60.00	-21.20	NVSS_M	2016
Effective Treatment	Suicide deaths among persons age 12 and over per 100,000 population	-55.98	-46.10	NVSS_M	2016

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Priority Area	Measures for Asians Better Than Whites	Relative Difference	Z Score	Data Source	Data Year
Effective Treatment	Breast cancer deaths per 100,000 female population per year	-45.41	-28.10	NVSS_M	2016
Effective Treatment	Lung cancer deaths per 100,000 population per year	-45.15	-42.90	NVSS_M	2016
Effective Treatment	Short-stay home health patients who had diabetic foot care and patient education	-40.74	-10.80	OASIS	2016
Effective Treatment	Acute stroke patients for whom IV thrombolytic therapy was initiated at hospital within 3 hours of time last known well	-33.04	-4.12	QIO	2016
Effective Treatment	Colorectal cancer deaths per 100,000 population per year	-32.12	-19.70	NVSS_M	2016
Effective Treatment	Adult hemodialysis patients with adequate dialysis - (Kt/V) 12 or higher	-22.22	-25.30	UMKECC	2017
Healthy Living	Hospital patients who received pneumococcal immunization	-56.03	-13.90	QIO	2015
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	-41.65	-3.25	NHIS	2017
Healthy Living	Children ages 19-35 months who received 3 or more doses of polio vaccine	-37.97	-1.97	NIS	2016
Healthy Living	Children ages 6 months to 17 years who received influenza vaccination in the last flu season	-37.60	-4.44	NHIS	2017
Healthy Living	Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-36.84	-6.86	NVSS_L	2016
Healthy Living	Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	-36.17	-2.05	NIS	2016
Healthy Living	Children ages 19-35 months who received 1 or more doses of varicella vaccine	-35.42	-2.10	NIS	2016
Healthy Living	Children ages 2-19 with obesity	-33.33	-3.14	NHANES	2016
Healthy Living	Adults who received a blood cholesterol measurement in the last 5 years	-29.13	-3.44	NHIS	2017
Healthy Living	Home health care patients who stayed at home after an episode of home health care	-27.11	-75.50	OASIS	2016
Healthy Living	Breast cancer diagnosed at advanced stage (regional, distant stage, or local stage with tumor greater than 2 cm) per 100,000 women age 40 and over	-25.61	-17.30	NPCR_USCS	2015
Healthy Living	Colorectal cancer diagnosed at advanced stage (tumors diagnosed at regional or distant stage) per 100,000 population age 50 and over	-24.23	-14.40	NPCR_USCS	2015

Priority Area	Measures for Asians Better Than Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Cervical cancer diagnosed at advanced stage (all invasive tumors) per 100,000 women age 20 and over	-19.05	-6.32	NPCR_USCS	2015
Patient Safety	Adult surgery patients with postoperative pneumonia events	-100.00	-7.26	MPSMS	2016
Patient Safety	Adult surgery patients with postoperative venous thromboembolic events	-100.00	-4.51	MPSMS	2016
Patient Safety	Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults	-52.05	-4.01	HCUP	2016
Patient Safety	Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults	-50.00	-2.24	HCUP	2016
Patient Safety	Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-43.42	-2.65	MEPS	2016
Patient Safety	Deaths per 1,000 hospital admissions with expected low-mortality	-41.67	-3.16	HCUP	2016
Patient Safety	Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults	-25.67	-5.65	HCUP	2016
Patient Safety	Adults who reported a home health provider asking to see all the prescription and over-the-counter medicines they were taking, when they first started getting home health care	-22.95	-18.60	HCAHPS	2017
Person-Centered Care	Adults with limited English proficiency who had a usual source of care	-43.83	-4.47	MEPS	2016

Area	Measures for Asians Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Affordable Care	People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-13.66	-1.55	MEPS	2016
Affordable Care	People unable to get or delayed in getting needed dental care due to financial or insurance reasons	-8.59	-0.88	MEPS	2015
Care Coordination	Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, adults	-8.54	-4.27	HCUP	2016
Care Coordination	Adult hospital patients who strongly disagree or disagree that staff took their preferences and those of their family and caregiver into account when deciding what the patient's discharge healthcare would be	-2.16	-1.33	HCAHPS	2017
Care Coordination	Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children	-1.71	-0.36	HCUP	2016

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Area	Measures for Asians Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Care Coordination	Hospital admissions for asthma per 100,000 population, children ages 2-17	1.09	0.07	HCUP	2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg	-13.65	-0.95	NHANES	2016
Effective Treatment	Patients with tuberculosis who completed a curative course of treatment within 1 year of initiation of treatment	-12.04	-1.53	NTBSS	2015
Effective Treatment	Deaths per 1,000 adult hospital admissions with congestive heart failure	-9.88	-2.20	HCUP	2016
Effective Treatment	Dialysis patients who were registered on a waiting list for transplantation	-9.55	-11.00	USRDS	2016
Effective Treatment	Stroke patients with educational material addressing activation of emergency medical system, follow-up after discharge, educations prescribed at discharge, risk factors for stroke, warning signs and symptoms of stroke	-7.41	-1.40	QIO	2015
Effective Treatment	Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-7.17	-0.48	NHIS	2017
Effective Treatment	Adult hemodialysis patients who use arteriovenous fistulas as the primary mode of vascular access	-6.85	-7.74	USRDS	2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-3.21	-0.19	MEPS	2016
Effective Treatment	Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure	0.47	0.63	USRDS	2013
Effective Treatment	Stroke patients prescribed statin medication at hospital discharge	3.33	0.21	QIO	2015
Effective Treatment	Adult end stage renal disease (ESRD) patients who saw a nephrologist at least 12 months prior to initiation of renal replacement therapy	3.41	3.51	USRDS	2016
Effective Treatment	People age 13 and over living with diagnosed HIV who had at least two CD4 or viral load tests performed at least 3 months apart during the last year, among reporting jurisdictions	4.37	3.53	HIV_AIDSSS	2015
Effective Treatment	People age 13 and over living with diagnosed HIV whose most recent viral load in the last 12 months was under 200 copies/mL	4.79	3.14	HIV_AIDSSS	2015
Effective Treatment	New HIV cases per 100,000 population age 13 and over	4.92	1.34	HIV_AIDSSS	2015
Effective Treatment	Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over	6.36	0.63	HCUP	2016

Area	Measures for Asians Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Effective Treatment	Deaths per 1,000 adult hospital admissions with pneumonia	10.21	1.76	HCUP	2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	16.16	0.92	MEPS	2016
Effective Treatment	Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair	26.74	1.11	HCUP	2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	28.31	1.51	MEPS	2016
Effective Treatment	Adults age 40 and over with diabetes whose condition was diagnosed	66.14	1.78	NHANES	2016
Healthy Living	Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	-25.58	-1.29	NIS	2016
Healthy Living	Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	-14.47	-0.88	NIS	2016
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	-12.79	-0.61	NIS_TEEN	2016
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-7.71	-0.84	MEPS	2016
Healthy Living	Adults ages 18 and over who received influenza vaccination in the last flu season	-7.38	-1.45	NHIS	2017
Healthy Living	Home health care patients whose pain when moving around decreased	-7.25	-9.45	OASIS	2016
Healthy Living	Adults with obesity who ever received advice from a health professional to exercise more	-4.75	-0.35	MEPS	2016
Healthy Living	Children ages 0-17 with wellness checkup in the past 12 months	-4.55	-0.35	NHIS	2017
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-3.99	-0.58	MEPS	2016
Healthy Living	Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-3.36	-0.32	MEPS	2016
Healthy Living	Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-2.78	-0.23	NHIS	2017
Healthy Living	Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-2.30	-0.25	MEPS	2016

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Area	Measures for Asians Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	-1.07	-0.04	NIS_TEEN	2016
Healthy Living	Hospital patients who received influenza vaccination	0.00	0.00	QIO	2016
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	0.19	0.03	MEPS	2016
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	0.40	0.08	NHIS	2017
Healthy Living	Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	2.42	0.32	MEPS	2016
Healthy Living	Adults with a dental visit in the calendar year	2.81	1.03	MEPS	2016
Healthy Living	Children ages 2-17 who had a dental visit in the calendar year	3.24	0.40	MEPS	2016
Healthy Living	Adults who had a preventive dental service in the calendar year	3.87	1.17	MEPS	2016
Healthy Living	Adolescent males ages 16-17 who received 3 or more doses of human papillomavirus (HPV) vaccine	5.31	0.71	NIS_TEEN	2015
Healthy Living	Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	6.25	0.26	NIS_TEEN	2015
Healthy Living	Children ages 2-17 who had a preventive dental service in the calendar year	6.67	0.91	MEPS	2016
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	7.63	0.27	NIS_TEEN	2016
Healthy Living	Adults age 65 and over who received an influenza vaccination in the last flu season	8.54	0.51	NHIS	2017
Healthy Living	Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	10.07	1.37	MEPS	2016
Healthy Living	Children 0-40 lb for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	10.56	0.63	MEPS	2016
Healthy Living	Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over	12.26	1.33	HCUP	2016
Healthy Living	Women ages 50-74 who received a mammogram in the last 2 years	19.50	1.44	NHIS	2015
Healthy Living	Children who had their height and weight measured by a health provider within the past 2 years	23.81	0.95	MEPS	2016

Area	Measures for Asians Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Patient Safety	Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions	-18.18	-0.89	HCUP	2016
Patient Safety	Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children	-6.45	-0.31	HCUP	2016
Patient Safety	Birth trauma - injury to neonate per 1,000 selected live births	-4.12	-0.59	HCUP	2016
Patient Safety	Adults home health patients age 18 and over who reported that home health providers talked with them about the side effects of medicines in the last 2 months of care	1.46	3.66	HHCAHPS	2017
Patient Safety	Adults who reported that home health providers talked with them about when to take medicines in the last 2 months of care	2.11	4.99	HHCAHPS	2017
Patient Safety	Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults	2.39	0.34	HCUP	2016
Patient Safety	Adults who reported that home health providers talked with them about the purpose for taking their new or changed prescription medicines in the last 2 months of care	5.42	12.31	HHCAHPS	2017
Patient Safety	Adults who reported a home health provider talking with them about how to set up their home so they can move around safely when they first started getting home health care	9.48	7.32	HHCAHPS	2017
Patient Safety	Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults	17.39	1.26	HCUP	2016
Patient Safety	Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults	32.14	1.56	HCUP	2016
Patient Safety	Hospital patients who received a hypoglycemic agent who had an adverse drug events with hypoglycemic agents	70.36	1.56	MPSMS	2016
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-7.04	-1.98	MEPS	2016
Person-Centered Care	Adults who reported getting the help or advice they needed when they contacted their home health provider in the last 2 months of care	-4.26	-10.60	HHCAHPS	2017
Person-Centered Care	Adult hospital patients who sometimes or never had good communication about medications they received in the hospital	-0.99	-0.89	HCAHPS	2017
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	1.18	0.08	MEPS	2016

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Area	Measures for Asians Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Person-Centered Care	Family members who definitely received trainings about taking care their family member from hospice care team	3.30	1.27	HOSPICE_CAHPS	2017
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	4.75	2.08	MEPS	2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	9.38	0.43	MEPS	2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	10.32	0.44	MEPS	2016
Person-Centered Care	Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	14.89	1.03	MEPS	2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	35.81	1.51	MEPS	2016

Priority Area	Measures for Asians Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Care Coordination	Adults who reported that home health providers always seem informed and up-to-date about all the cares or treatments they got at home in the last 2 months of care	41.14	35.96	HCAHPS	2017
Care Coordination	People with a usual source of care who usually asks about prescription medications and treatments from other doctors	29.57	2.72	MEPS	2016
Care Coordination	Home health patients who had timely initiation of care	25.76	16.67	OASIS	2016
Care Coordination	Adult hospital patients who did not receive good communication about discharge information	13.86	11.51	HCAHPS	2017
Effective Treatment	People age 13 and over living with HIV who know their serostatus	64.71	24.35	HIV_AIDSSS	2015
Effective Treatment	Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population	54.04	20.26	USRDS	2016
Effective Treatment	Stroke patients who received venous thromboembolism (VTE) prophylaxis	52.00	2.95	QIO	2015
Effective Treatment	Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over	21.91	2.55	HCUP	2016

Priority Area	Measures for Asians Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Effective Treatment	Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI)	19.88	4.52	HCUP	2016
Effective Treatment	People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	16.23	4.58	MEPS	2016
Effective Treatment	Adults with hypertension with blood pressure less than 140/90 mm/Hg	12.34	5.00	NHANES	2016
Healthy Living	Adults age 65 and over who ever received pneumococcal vaccination	53.66	3.97	NHIS	2017
Healthy Living	Women ages 21-65 who received a Pap smear in the last 3 years	45.41	3.85	NHIS	2015
Healthy Living	Home health patients who had improvement in upper body dressing	30.40	37.81	OASIS	2016
Healthy Living	Home health care patients whose ability to get in and out of bed improved	26.84	41.79	OASIS	2016
Healthy Living	Home health care patients whose ability to walk or move around improved	24.57	35.32	OASIS	2016
Healthy Living	Home health care patients whose bathing improved	22.78	29.35	OASIS	2016
Healthy Living	Live-born infants with low birth weight (less than 2,500 g)	18.31	12.75	NVSS_N	2017
Healthy Living	Infants born in the calendar year who received breastfeeding through 3 months	15.53	1.97	NIS	2015
Healthy Living	Home health care patients whose shortness of breath decreased	11.85	15.92	OASIS	2016
Patient Safety	Hospital patients with an anticoagulant-related adverse drug event to low-molecular-weight heparin (LMWH) and factor Xa	320.66	2.57	MPSMS	2015
Patient Safety	Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	100.54	14.02	HCUP	2016
Patient Safety	Obstetric trauma per 1,000 instrument-assisted deliveries	60.70	8.15	HCUP	2016
Patient Safety	Postoperative hemorrhage or hematoma with surgical drainage or evacuation per 1,000 surgical hospital discharges, adults	47.03	5.90	HCUP	2016
Patient Safety	Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults	44.30	4.86	HCUP	2016
Patient Safety	Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults	30.56	2.67	HCUP	2016
Patient Safety	Home health care patients whose management of oral medications improved	27.49	50.75	OASIS	2016
Patient Safety	Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions	20.47	5.55	HCUP	2016

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Priority Area	Measures for Asians Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Patient Safety	Adults who reported a home health provider talking with them about all the prescription and over-the-counter medicines they were taking when they first started getting home health care	11.80	6.32	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care	170.69	32.93	HHCAHPS	2017
Person-Centered Care	Adults with limited English proficiency and usual source of care (USC) and the USC had language assistance	163.41	2.28	MEPS	2016
Person-Centered Care	Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care	124.18	37.58	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care	67.08	35.92	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers always listen carefully to them in the last 2 months of care	57.52	29.27	HHCAHPS	2017
Person-Centered Care	People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	57.04	3.74	MEPS	2016
Person-Centered Care	Hospice patients whose hospice care team always treated them with dignity and respect, and really cared about them	56.44	11.39	HOSPICE_CAHPS	2017
Person-Centered Care	Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care	49.21	15.42	HHCAHPS	2017
Person-Centered Care	Hospice patients and family caregivers who always got help as soon as they need from hospice care team	44.89	14.28	HOSPICE_CAHPS	2017
Person-Centered Care	Family caregivers who would definitely recommend this hospice to their friends and family	41.06	8.77	HOSPICE_CAHPS	2017
Person-Centered Care	Adults who reported that home health providers always kept them informed about when they would arrive at their home in the last 2 months of care	39.60	26.61	HHCAHPS	2017
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	36.42	3.91	MEPS	2016
Person-Centered Care	Family caregivers who rated the hospice care for their family member best (9-10) on a scale of 0-10 (where 0 is the worst and 10 is the best)	36.04	10.04	HOSPICE_CAHPS	2017
Person-Centered Care	Family caregivers who received right amount of emotional and spiritual supports from hospice care team	33.33	6.99	HOSPICE_CAHPS	2017

Priority Area	Measures for Asians Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Person-Centered Care	Adults who reported that home health providers talk about pain in the last 2 months of care	33.33	16.92	HHCAHPS	2017
Person-Centered Care	Adults who reported being told what care and services they would get when they first started getting home health care	28.70	10.31	HHCAHPS	2017
Person-Centered Care	Hospice patients who always received enough helps for pain, sadness, breathing, or constipations from hospice care team	26.19	9.33	HOSPICE_CAHP	2017
Person-Centered Care	Hospice patients whose hospice care team always communicated well with their family caregivers about taking care them	25.12	10.00	HOSPICE_CAHP	2017

American Indians and Alaska Natives vs. Whites

Priority Area	Measures for AI/ANs Better Than Whites	Relative Difference	Z Score	Data Source	Data Year
Effective Treatment	Stroke patients prescribed statin medication at hospital discharge	-40.00	-7.73	QIO	2015
Effective Treatment	Breast cancer deaths per 100,000 female population per year	-38.27	-8.28	NVSS_M	2016
Effective Treatment	Lung cancer deaths per 100,000 population per year	-36.22	-15.70	NVSS_M	2016
Effective Treatment	Adult hemodialysis patients who use arteriovenous fistulas as the primary mode of vascular access	-29.46	-16.30	USRDS	2016
Effective Treatment	Colorectal cancer deaths per 100,000 population per year	-27.74	-6.25	NVSS_M	2016
Effective Treatment	Stroke patients who received venous thromboembolism (VTE) prophylaxis	-24.00	-4.50	QIO	2015
Effective Treatment	Suicide deaths among persons age 12 and over per 100,000 population	-10.87	-2.83	NVSS_M	2016
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	-41.84	-2.58	NHIS	2017
Healthy Living	Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	-40.91	-2.53	NIS_TEEN	2015
Healthy Living	Breast cancer diagnosed at advanced stage (regional, distant stage, or local stage with tumor greater than 2 cm) per 100,000 women age 40 and over	-38.25	-12.40	NPCR_USCS	2015
Healthy Living	Adults ages 18 and over who received influenza vaccination in the last flu season	-18.27	-2.01	NHIS	2017

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Priority Area	Measures for AI/ANs Better Than Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Colorectal cancer diagnosed at advanced stage (tumors diagnosed at regional or distant stage) per 100,000 population age 50 and over	-15.67	-3.85	NPCR_USCS	2015
Patient Safety	Adults who reported a home health provider asking to see all the prescription and over-the-counter medicines they were taking, when they first started getting home health care	-33.61	-20.50	HCAHPS	2017
Person-Centered Care	Adult hospital patients who sometimes or never had good communication about medications they received in the hospital	-17.62	-10.40	HCAHPS	2017

Priority Area	Measures for AI/ANs Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Affordable Care	People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-16.39	-0.78	MEPS	2016
Care Coordination	People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-8.60	-0.42	MEPS	2016
Care Coordination	Adult hospital patients who did not receive good communication about discharge information	5.94	3.14	HCAHPS	2017
Care Coordination	Home health care patients who had an emergency department visit and then hospitalized	8.81	5.65	OASIS	2016
Effective Treatment	Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-22.87	-1.27	NHIS	2017
Effective Treatment	Adult hemodialysis patients with adequate dialysis - (Kt/V) 12 or higher	-2.78	-1.24	UMKECC	2017
Effective Treatment	People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months	-2.38	-0.88	NSDUH	2015
Effective Treatment	HIV infection deaths per 100,000 population	0.00	0.00	NVSS_M	2016
Effective Treatment	People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months	3.80	0.71	NSDUH	2016
Effective Treatment	Dialysis patients who were registered on a waiting list for transplantation	6.44	5.86	USRDS	2016
Effective Treatment	Adult end stage renal disease (ESRD) patients who saw a nephrologist at least 12 months prior to initiation of renal replacement therapy	7.31	3.00	USRDS	2016

Priority Area	Measures for AI/ANs Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Effective Treatment	Short-stay home health patients who had diabetic foot care and patient education	11.11	1.49	OASIS	2016
Healthy Living	Adults age 65 and over who received an influenza vaccination in the last flu season	-37.01	-0.72	NHIS	2017
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	-16.86	-0.71	NIS_TEEN	2016
Healthy Living	Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-15.16	-1.06	MEPS	2015
Healthy Living	Children ages 6 months to 17 years who received influenza vaccination in the last flu season	-14.76	-0.84	NHIS	2017
Healthy Living	Cervical cancer diagnosed at advanced stage (all invasive tumors) per 100,000 women age 20 and over	-14.29	-1.86	NPCR_USCS	2015
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-5.95	-0.70	NHIS	2017
Healthy Living	Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	-5.33	-0.19	NIS	2015
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-1.69	-0.05	NIS_TEEN	2016
Healthy Living	Home health care patients who stayed at home after an episode of home health care	7.04	6.65	OASIS	2016
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	10.89	0.79	MEPS	2015
Healthy Living	Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	11.32	0.36	NIS	2016
Healthy Living	Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	12.50	0.42	NHIS	2017
Healthy Living	Adults who received a blood cholesterol measurement in the last 5 years	14.96	0.93	NHIS	2017
Healthy Living	Children ages 2-17 who had a dental visit in the calendar year	16.48	0.81	MEPS	2015
Healthy Living	Infants born in the calendar year who received breastfeeding through 3 months	17.87	1.34	NIS	2015
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	18.41	1.06	MEPS	2015

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Priority Area	Measures for AI/ANs Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	19.37	1.19	MEPS	2015
Healthy Living	Children ages 0-17 with wellness checkup in the past 12 months	22.08	0.65	NHIS	2017
Healthy Living	Children ages 2-17 who had a preventive dental service in the calendar year	26.80	1.35	MEPS	2015
Healthy Living	Children ages 19-35 months who received 1 or more doses of varicella vaccine	34.38	0.67	NIS	2016
Healthy Living	Children ages 19-35 months who received 3 or more doses of polio vaccine	58.06	1.37	NIS	2015
Healthy Living	Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	103.85	1.64	NIS	2015
Healthy Living	Children who had their height and weight measured by a health provider within the past 2 years	109.52	1.04	MEPS	2016
Patient Safety	Adults who reported that home health providers talked with them about when to take medicines in the last 2 months of care	-4.92	-6.99	HHCAHPS	2017
Patient Safety	Adults home health patients age 18 and over who reported that home health providers talked with them about the side effects of medicines in the last 2 months of care	-4.78	-7.19	HHCAHPS	2017
Patient Safety	Adults who reported that home health providers talked with them about the purpose for taking their new or changed prescription medicines in the last 2 months of care	-3.37	-4.60	HHCAHPS	2017
Patient Safety	Adults who reported a home health provider talking with them about all the prescription and over-the-counter medicines they were taking when they first started getting home health care	0.00	0.00	HHCAHPS	2017
Patient Safety	Home health care patients whose management of oral medications improved	4.85	3.60	OASIS	2016
Patient Safety	Adults who reported a home health provider talking with them about how to set up their home so they can move around safely when they first started getting home health care	9.05	4.20	HHCAHPS	2017
Person-Centered Care	Adults who reported getting the help or advice they needed when they contacted their home health provider in the last 2 months of care	-5.46	-8.19	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers talk about pain in the last 2 months of care	-0.98	-0.33	HHCAHPS	2017
Person-Centered Care	Family caregivers who would definitely recommend this hospice to their friends and family	0.66	0.10	HOSPICE_CAHP	2017

Priority Area	Measures for AI/ANs Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Person-Centered Care	Hospice patients who always received enough helps for pain, sadness, breathing, or constipations from hospice care team	2.78	0.70	HOSPICE_CAHPS	2017
Person-Centered Care	Hospice patients whose hospice care team always communicated well with their family caregivers about taking care them	2.96	0.74	HOSPICE_CAHPS	2017
Person-Centered Care	Family members who definitely received trainings about taking care their family member from hospice care team	4.03	0.91	HOSPICE_CAHPS	2017
Person-Centered Care	Hospice patients and family caregivers who always got help as soon as they need from hospice care team	6.22	1.27	HOSPICE_CAHPS	2017
Person-Centered Care	Family caregivers who rated the hospice care for their family member best (9-10) on a scale of 0-10 (where 0 is the worst and 10 is the best)	9.14	1.63	HOSPICE_CAHPS	2017
Person-Centered Care	People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	20.00	0.65	MEPS	2015

Priority Area	Measures for AI/ANs Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Care Coordination	Home health care patients who had an emergency department visit without a hospitalization	38.46	7.46	OASIS	2016
Care Coordination	Adult hospital patients who strongly disagree or disagree that staff took their preferences and those of their family and caregiver into account when deciding what the patient's discharge healthcare would be	36.74	11.60	HCAHPS	2017
Care Coordination	Home health patients who had timely initiation of care	25.76	8.46	OASIS	2016
Care Coordination	Home health care patients who had to be admitted to the hospital	10.83	8.65	OASIS	2016
Care Coordination	Adults who reported that home health providers always seem informed and up-to-date about all the cares or treatments they got at home in the last 2 months of care	10.29	7.19	HHCAHPS	2017
Effective Treatment	Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population	97.31	14.07	USRDS	2016
Effective Treatment	Patients with tuberculosis who completed a curative course of treatment within 1 year of initiation of treatment	82.41	2.31	NTBSS	2015
Effective Treatment	Stroke patients with educational material addressing activation of emergency medical system, follow-up after discharge, educations	72.22	4.47	QIO	2015

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Priority Area	Measures for AI/ANs Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
	prescribed at discharge, risk factors for stroke, warning signs and symptoms of stroke				
Effective Treatment	Acute stroke patients for whom IV thrombolytic therapy was initiated at hospital within 3 hours of time last known well	71.30	2.34	QIO	2016
Effective Treatment	New HIV cases per 100,000 population age 13 and over	67.21	5.80	HIV_AIDSSS	2015
Effective Treatment	People age 13 and over living with HIV who know their serostatus	57.14	9.62	HIV_AIDSSS	2015
Effective Treatment	People age 13 and over living with diagnosed HIV whose most recent viral load in the last 12 months was under 200 copies/mL	23.35	6.48	HIV_AIDSSS	2015
Effective Treatment	People age 13 and over living with diagnosed HIV who had at least two CD4 or viral load tests performed at least 3 months apart during the last year, among reporting jurisdictions	14.81	5.07	HIV_AIDSSS	2015
Effective Treatment	Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure	10.65	10.91	USRDS	2013
Healthy Living	Hospital patients who received influenza vaccination	196.61	38.58	QIO	2016
Healthy Living	Infant mortality per 1,000 live births, birth weight 2,500 grams or more	136.84	8.65	NVSS_L	2016
Healthy Living	Adults age 65 and over who ever received pneumococcal vaccination	74.56	2.27	NHIS	2017
Healthy Living	Women ages 50-74 who received a mammogram in the last 2 years	66.31	2.29	NHIS	2015
Healthy Living	Women ages 21-65 who received a Pap smear in the last 3 years	61.08	2.01	NHIS	2015
Healthy Living	Hospital patients who received pneumococcal immunization	43.10	9.87	QIO	2015
Healthy Living	Adults who had a preventive dental service in the calendar year	38.91	6.33	MEPS	2016
Healthy Living	Adults with a dental visit in the calendar year	29.02	5.85	MEPS	2016
Healthy Living	Adolescent males ages 13-15 who received 3 or more doses of human papillomavirus (HPV) vaccine	23.04	3.85	NIS_TEEN	2016
Healthy Living	Live-born infants with low birth weight (less than 2,500 g)	18.31	12.75	NVSS_N	2017
Healthy Living	Home health care patients whose ability to walk or move around improved	17.30	12.48	OASIS	2016
Healthy Living	Home health care patients whose pain when moving around decreased	16.41	10.74	OASIS	2016
Healthy Living	Home health care patients whose bathing improved	11.20	7.24	OASIS	2016
Healthy Living	Home health care patients whose ability to get in and out of bed improved	11.18	8.74	OASIS	2016

Priority Area	Measures for AI/ANs Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Home health patients who had improvement in upper body dressing	10.80	6.74	OASIS	2016
Healthy Living	Home health care patients whose shortness of breath decreased	10.74	5.80	OASIS	2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	297.92	2.67	MEPS	2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	229.41	2.91	MEPS	2016
Person-Centered Care	Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	172.34	2.28	MEPS	2016
Person-Centered Care	Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care	67.24	12.97	HHCAHPS	2017
Person-Centered Care	Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care	55.56	11.64	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care	43.96	9.99	HHCAHPS	2017
Person-Centered Care	Family caregivers who received right amount of emotional and spiritual supports from hospice care team	30.48	4.57	HOSPICE_CAHPS	2017
Person-Centered Care	Adults who reported that home health providers always listen carefully to them in the last 2 months of care	19.61	7.49	HHCAHPS	2017
Person-Centered Care	Hospice patients whose hospice care team always treated them with dignity and respect, and really cared about them	18.81	2.37	HOSPICE_CAHPS	2017
Person-Centered Care	Adults who reported being told what care and services they would get when they first started getting home health care	17.59	4.74	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care	17.39	6.99	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers always kept them informed about when they would arrive at their home in the last 2 months of care	14.36	5.80	HHCAHPS	2017

Native Hawaiians/Pacific Islanders vs. Whites

Priority Area	Measures for NHPs Better Than Whites	Relative Difference	Z Score	Data Source	Data Year
Care Coordination	Home health care patients who had an emergency department visit and then hospitalized	-22.28	-10.70	OASIS	2016

Appendix A: List of Measures and Summary of Results for Figures

Priority Area	Measures for NHPs Better Than Whites	Relative Difference	Z Score	Data Source	Data Year
Care Coordination	Home health care patients who had to be admitted to the hospital	-20.00	-12.00	OASIS	2016
Effective Treatment	Stroke patients prescribed statin medication at hospital discharge	-53.33	-3.79	QIO	2015
Effective Treatment	Short-stay home health patients who had diabetic foot care and patient education	-18.52	-2.49	OASIS	2016
Healthy Living	Hospital patients who received pneumococcal immunization	-62.07	-9.18	QIO	2015
Healthy Living	Home health care patients who stayed at home after an episode of home health care	-21.48	-15.20	OASIS	2016
Patient Safety	Adults who reported a home health provider asking to see all the prescription and over-the-counter medicines they were taking, when they first started getting home health care	-34.84	-10.60	HCAHPS	2017
Person-Centered Care	Adult hospital patients who sometimes or never had good communication about medications they received in the hospital	-20.59	-7.16	HCAHPS	2017

Priority Area	Measures for NHPs Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Care Coordination	Adult hospital patients who did not receive good communication about discharge information	4.95	1.51	HCAHPS	2017
Effective Treatment	Patients with tuberculosis who completed a curative course of treatment within 1 year of initiation of treatment	-39.81	-1.55	NTBSS	2015
Effective Treatment	Acute stroke patients for whom IV thrombolytic therapy was initiated at hospital within 3 hours of time last known well	-4.35	-0.13	QIO	2016
Effective Treatment	Stroke patients who received venous thromboembolism (VTE) prophylaxis	24.00	1.17	QIO	2015
Effective Treatment	Stroke patients with educational material addressing activation of emergency medical system, follow-up after discharge, educations prescribed at discharge, risk factors for stroke, warning signs and symptoms of stroke	33.33	1.80	QIO	2015
Healthy Living	Children ages 19-35 months who received 3 or more doses of polio vaccine	-34.18	-1.09	NIS	2016
Healthy Living	Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	-26.67	-0.78	NIS	2015
Healthy Living	Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	-22.45	-0.85	NIS	2015

Priority Area	Measures for NHPs Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Children ages 19-35 months who received 1 or more doses of varicella vaccine	-15.63	-0.43	NIS	2016
Healthy Living	Home health care patients whose pain when moving around decreased	-3.82	-1.67	OASIS	2016
Healthy Living	Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	-1.16	-0.03	NIS	2016
Healthy Living	Home health care patients whose shortness of breath decreased	1.48	0.57	OASIS	2016
Healthy Living	Home health care patients whose ability to get in and out of bed improved	9.27	4.83	OASIS	2016
Healthy Living	Infants born in the calendar year who received breastfeeding through 3 months	16.38	0.90	NIS	2015
Healthy Living	Adults who received a blood cholesterol measurement in the last 5 years	23.62	0.79	NHIS	2017
Patient Safety	Adults who reported that home health providers talked with them about when to take medicines in the last 2 months of care	-4.92	-3.50	HHCAHPS	2017
Patient Safety	Adults home health patients age 18 and over who reported that home health providers talked with them about the side effects of medicines in the last 2 months of care	-3.72	-2.80	HHCAHPS	2017
Patient Safety	Adults who reported that home health providers talked with them about the purpose for taking their new or changed prescription medicines in the last 2 months of care	-2.05	-1.40	HHCAHPS	2017
Patient Safety	Adults who reported a home health provider talking with them about all the prescription and over-the-counter medicines they were taking when they first started getting home health care	4.35	0.87	HHCAHPS	2017
Patient Safety	Adults who reported a home health provider talking with them about how to set up their home so they can move around safely when they first started getting home health care	5.60	1.44	HHCAHPS	2017
Person-Centered Care	Hospice patients and family caregivers who always got help as soon as they need from hospice care team	-11.71	-1.53	HOSPICE_CAHPs	2016
Person-Centered Care	Family caregivers who would definitely recommend this hospice to their friends and family	-8.11	-0.70	HOSPICE_CAHPs	2016
Person-Centered Care	Adults who reported getting the help or advice they needed when they contacted their home health provider in the last 2 months of care	-5.06	-3.80	HHCAHPS	2017
Person-Centered Care	Hospice patients whose hospice care team always communicated well with their family caregivers about taking care them	1.97	0.28	HOSPICE_CAHPs	2017

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Priority Area	Measures for NHPs Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Person-Centered Care	Family caregivers who rated the hospice care for their family member best (9-10) on a scale of 0-10 (where 0 is the worst and 10 is the best)	2.05	0.22	HOSPICE_CAHPS	2016
Person-Centered Care	Hospice patients whose hospice care team always treated them with dignity and respect, and really cared about them	9.90	0.83	HOSPICE_CAHPS	2017

Priority Area	Measures for NHPs Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Care Coordination	Home health patients who had timely initiation of care	31.82	6.98	OASIS	2016
Care Coordination	Adult hospital patients who strongly disagree or disagree that staff took their preferences and those of their family and caregiver into account when deciding what the patient's discharge healthcare would be	22.20	4.33	HCAHPS	2017
Care Coordination	Home health care patients who had an emergency department visit without a hospitalization	12.82	2.49	OASIS	2016
Care Coordination	Adults who reported that home health providers always seem informed and up-to-date about all the cares or treatments they got at home in the last 2 months of care	11.43	4.00	HHCAHPS	2017
Effective Treatment	New HIV cases per 100,000 population age 13 and over	191.80	5.84	HIV_AIDSSS	2015
Effective Treatment	People age 13 and over living with HIV who know their serostatus	49.58	4.90	HIV_AIDSSS	2015
Effective Treatment	People age 13 and over living with diagnosed HIV who had at least two CD4 or viral load tests performed at least 3 months apart during the last year, among reporting jurisdictions	22.82	4.94	HIV_AIDSSS	2015
Effective Treatment	People age 13 and over living with diagnosed HIV whose most recent viral load in the last 12 months was under 200 copies/mL	17.37	3.05	HIV_AIDSSS	2015
Healthy Living	Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	219.44	3.43	NHIS	2017
Healthy Living	Hospital patients who received influenza vaccination	44.07	6.49	QIO	2016
Healthy Living	Home health patients who had improvement in upper body dressing	17.20	7.16	OASIS	2016
Healthy Living	Home health care patients whose bathing improved	15.83	6.83	OASIS	2016
Healthy Living	Home health care patients whose ability to walk or move around improved	12.11	5.83	OASIS	2016

Priority Area	Measures for NHPs Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Patient Safety	Home health care patients whose management of oral medications improved	14.02	7.43	OASIS	2016
Person-Centered Care	Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care	98.28	8.14	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care	71.43	8.12	HHCAHPS	2017
Person-Centered Care	Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care	69.84	6.28	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers always listen carefully to them in the last 2 months of care	37.25	6.33	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care	35.40	6.33	HHCAHPS	2017
Person-Centered Care	Family caregivers who received right amount of emotional and spiritual supports from hospice care team	33.02	2.69	HOSPICE_CAHP	2016
Person-Centered Care	Adults who reported that home health providers always kept them informed about when they would arrive at their home in the last 2 months of care	21.29	4.78	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers talk about pain in the last 2 months of care	17.65	2.57	HHCAHPS	2017
Person-Centered Care	Adults who reported being told what care and services they would get when they first started getting home health care	16.67	2.57	HHCAHPS	2017

Hispanics vs. Non-Hispanic Whites

Priority Area	Measures for Hispanics Better Than Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Affordable Care	People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-19.79	-3.57	MEPS	2016
Care Coordination	Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over	-56.98	-24.60	HCUP	2016
Care Coordination	Hospital admissions for dehydration per 100,000 population, adults age 18 and over	-52.00	-20.00	HCUP	2016
Care Coordination	Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over	-45.57	-13.90	HCUP	2016

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Priority Area	Measures for Hispanics Better Than Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Care Coordination	Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over	-38.59	-11.80	HCUP	2016
Care Coordination	Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17	-27.56	-2.67	HCUP	2016
Care Coordination	Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, adults	-26.50	-17.80	HCUP	2016
Care Coordination	Home health care patients who had an emergency department visit without a hospitalization	-25.64	-35.40	OASIS	2016
Care Coordination	Hospital admissions for short-term complications of diabetes per 100,000 population, adults	-22.98	-6.70	HCUP	2016
Effective Treatment	Suicide deaths among persons age 12 and over per 100,000 population	-60.68	-88.40	NVSS_M	2016
Effective Treatment	Lung cancer deaths per 100,000 population per year	-60.00	-111.00	NVSS_M	2016
Effective Treatment	Hospital admissions for congestive heart failure per 100,000 population	-46.56	-17.10	HCUP	2016
Effective Treatment	Deaths per 1,000 adult hospital admissions with congestive heart failure	-33.64	-13.50	HCUP	2016
Effective Treatment	Breast cancer deaths per 100,000 female population per year	-30.85	-19.60	NVSS_M	2016
Effective Treatment	Short-stay home health patients who had diabetic foot care and patient education	-25.93	-24.70	OASIS	2016
Effective Treatment	Colorectal cancer deaths per 100,000 population per year	-22.14	-13.90	NVSS_M	2016
Effective Treatment	Deaths per 1,000 adult hospital admissions with pneumonia	-17.61	-5.59	HCUP	2016
Effective Treatment	Adult hemodialysis patients who use arteriovenous fistulas as the primary mode of vascular access	-15.25	-26.00	USRDS	2016
Healthy Living	Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-20.00	-14.10	NVSS_L	2016
Healthy Living	Breast cancer diagnosed at advanced stage (regional, distant stage, or local stage with tumor greater than 2 cm) per 100,000 women age 40 and over	-19.57	-17.80	NPCR_USCS	2015
Healthy Living	Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-15.81	-3.81	MEPS	2016

Priority Area	Measures for Hispanics Better Than Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Children with obesity 2-19 years of age who had been told by a doctor or health professional that they were overweight	-14.14	-2.01	NHANES	2016
Healthy Living	Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-13.48	-3.19	MEPS	2016
Healthy Living	Adolescent males ages 13-15 who received 3 or more doses of human papillomavirus (HPV) vaccine	-13.17	-2.97	NIS_TEEN	2016
Healthy Living	Children ages 6 months to 17 years who received influenza vaccination in the last flu season	-11.15	-2.06	NHIS	2017
Healthy Living	Adolescents females ages 13-15 who received 3 or more doses human papillomavirus vaccine	-10.76	-1.98	NIS_TEEN	2016
Healthy Living	Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-10.43	-3.04	MEPS	2016
Patient Safety	Adult surgery patients with postoperative venous thromboembolic events	-100.00	-4.51	MPSMS	2016
Patient Safety	Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults	-60.00	-2.12	HCUP	2016
Patient Safety	Deaths per 1,000 hospital admissions with expected low-mortality	-41.67	-7.07	HCUP	2016
Patient Safety	Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults	-36.99	-5.40	HCUP	2016
Patient Safety	Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-34.23	-2.70	MEPS	2016
Patient Safety	Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	-32.80	-14.40	HCUP	2016
Patient Safety	Obstetric trauma per 1,000 instrument-assisted deliveries	-26.50	-8.75	HCUP	2016
Patient Safety	Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults	-17.39	-2.83	HCUP	2016
Patient Safety	Birth trauma - injury to neonate per 1,000 selected live births	-16.67	-2.83	HCUP	2016
Patient Safety	Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults	-11.04	-2.95	HCUP	2016
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-12.76	-5.26	MEPS	2016
Person-Centered Care	Family members who definitely received trainings about taking care their family member from hospice care team	-12.36	-8.25	HOSPICE_CAHP	2017

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Priority Area	Measures for Hispanics Same as Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Affordable Care	People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	12.12	1.36	MEPS	2016
Care Coordination	Home health care patients who had an emergency department visit and then hospitalized	-4.66	-8.83	OASIS	2016
Care Coordination	Hospital admissions for asthma per 100,000 population, adults ages 18-39	-2.75	-0.44	HCUP	2016
Care Coordination	Hospital admissions for hypertension per 100,000 population, adults age 18 and over	-1.09	-0.21	HCUP	2016
Care Coordination	Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children	3.94	0.99	HCUP	2016
Care Coordination	Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults	6.93	1.32	HCUP	2016
Care Coordination	Home health care patients who had to be admitted to the hospital	8.75	20.59	OASIS	2016
Care Coordination	Home health patients who had timely initiation of care	9.09	21.21	OASIS	2016
Care Coordination	People with a usual source of care who usually asks about prescription medications and treatments from other doctors	10.38	1.48	MEPS	2016
Effective Treatment	Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI)	-3.47	-1.26	HCUP	2016
Effective Treatment	Patients with tuberculosis who completed a curative course of treatment within 1 year of initiation of treatment	-2.70	-0.23	NTBSS	2015
Effective Treatment	People age 12 and over treated for substance abuse who completed treatment course	-2.48	-11.60	TEDSD	2016
Effective Treatment	Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over	-2.12	-0.51	HCUP	2016
Effective Treatment	People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months	-1.94	-0.98	NSDUH	2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-1.58	-0.18	MEPS	2016
Effective Treatment	Dialysis patients who were registered on a waiting list for transplantation	0.72	1.66	USRDS	2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg	0.85	0.09	NHANES	2016

Priority Area	Measures for Hispanics Same as Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Effective Treatment	People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months	0.98	0.19	NSDUH	2016
Effective Treatment	People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	1.17	0.36	MEPS	2016
Effective Treatment	People age 13 and over living with diagnosed HIV who had at least two CD4 or viral load tests performed at least 3 months apart during the last year, among reporting jurisdictions	1.70	4.95	HIV_AIDSSS	2015
Effective Treatment	Adults with hypertension with blood pressure less than 140/90 mm/Hg	6.11	2.66	NHANES	2016
Effective Treatment	Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure	7.86	18.03	USRDS	2013
Effective Treatment	Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over	9.32	1.29	HCUP	2016
Effective Treatment	Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	12.37	1.40	NHIS	2017
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	16.74	1.00	MEPS	2016
Effective Treatment	Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair	25.63	1.48	HCUP	2016
Effective Treatment	Adults age 40 and over with diabetes whose condition was diagnosed	29.63	1.07	NHANES	2016
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	-17.42	-1.41	NIS_TEEN	2016
Healthy Living	Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	-12.82	-1.21	NIS_TEEN	2016
Healthy Living	Colorectal cancer diagnosed at advanced stage (tumors diagnosed at regional or distant stage) per 100,000 population age 50 and over	-9.46	-7.02	NPCR_USCS	2015
Healthy Living	Adolescents females ages 16-17 who received 3 or more doses of human papillomavirus vaccine	-9.43	-1.04	NIS_TEEN	2016
Healthy Living	Adolescent males ages 16-17 who received 3 or more doses of human papillomavirus (HPV) vaccine	-7.17	-1.20	NIS_TEEN	2016
Healthy Living	Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-5.53	-0.91	MEPS	2016
Healthy Living	Children 0-40 lb for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	-4.86	-0.45	MEPS	2016

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Priority Area	Measures for Hispanics Same as Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-4.57	-1.06	MEPS	2016
Healthy Living	Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-3.74	-0.28	MEPS	2016
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-3.60	-0.94	MEPS	2016
Healthy Living	Adults with obesity who ever received advice from a health professional to exercise more	-2.11	-0.42	MEPS	2016
Healthy Living	Women ages 50-74 who received a mammogram in the last 2 years	-1.77	-0.22	NHIS	2015
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-0.55	-0.09	MEPS	2016
Healthy Living	Adults who received a blood cholesterol measurement in the last 5 years	1.57	0.22	NHIS	2017
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	2.52	0.85	NHIS	2017
Healthy Living	Home health care patients whose pain when moving around decreased	3.44	8.83	OASIS	2016
Healthy Living	Home health care patients who stayed at home after an episode of home health care	3.87	10.79	OASIS	2016
Healthy Living	Live-born infants with low birth weight (less than 2,500 g)	5.71	14.14	NVSS_N	2017
Healthy Living	Children ages 19-35 months who received 1 or more doses of varicella vaccine	6.52	0.45	NIS	2016
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	9.82	1.14	NHIS	2017
Healthy Living	Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	9.87	0.86	NIS	2016
Healthy Living	Children ages 19-35 months who received 3 or more doses of polio vaccine	10.67	0.56	NIS	2016
Healthy Living	Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	11.90	0.75	NIS	2016
Healthy Living	Children ages 3-5 who ever had their vision checked by a health provider	12.01	0.99	MEPS	2016
Healthy Living	Adults age 65 and over who received an influenza vaccination in the last flu season	25.00	1.80	NHIS	2017

Priority Area	Measures for Hispanics Same as Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	25.29	1.36	NIS	2016
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	30.00	1.53	NIS_TEEN	2016
Patient Safety	Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions	-18.18	-0.89	HCUP	2016
Patient Safety	Hospital patients who received a hypoglycemic agent who had an adverse drug events with hypoglycemic agents	-4.43	-0.24	MPSMS	2016
Patient Safety	Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults	-0.93	-0.15	HCUP	2016
Patient Safety	Postoperative hemorrhage or hematoma with surgical drainage or evacuation per 1,000 surgical hospital discharges, adults	-0.46	-0.10	HCUP	2016
Patient Safety	Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults	-0.37	-0.06	HCUP	2016
Patient Safety	Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions	0.48	0.21	HCUP	2016
Patient Safety	Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults	8.33	0.74	HCUP	2016
Patient Safety	Hospital patients with an anticoagulant-related adverse drug event to low-molecular-weight heparin (LMWH) and factor Xa	14.76	0.44	MPSMS	2015
Patient Safety	Adult surgery patients with catheter-associated urinary tract infection	18.52	0.49	MPSMS	2016
Patient Safety	Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children	19.35	1.06	HCUP	2016
Patient Safety	Adverse drug event with IV heparin in adult hospital patients who received an anticoagulant	75.26	1.61	MPSMS	2016
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-6.77	-3.20	MEPS	2016
Person-Centered Care	Hospice patients whose hospice care team always communicated well with their family caregivers about taking care them	-4.41	-2.85	HOSPICE_CAHPS	2017
Person-Centered Care	Family caregivers who rated the hospice care for their family member best (9-10) on a scale of 0-10 (where 0 is the worst and 10 is the best)	2.54	1.21	HOSPICE_CAHPS	2017

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Priority Area	Measures for Hispanics Same as Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Person-Centered Care	Hospice patients who always received enough helps for pain, sadness, breathing, or constipations from hospice care team	3.98	3.16	HOSPICE_CAHPS	2017
Person-Centered Care	Hospice patients and family caregivers who always got help as soon as they need from hospice care team	5.78	3.15	HOSPICE_CAHPS	2017

Priority Area	Measures for Hispanics Worse Than Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Affordable Care	People without a usual source of care who indicated a financial or insurance reason for not having a source of care	110.68	7.21	MEPS	2016
Affordable Care	People unable to get or delayed in getting needed medical care due to financial or insurance reasons	53.02	3.92	MEPS	2016
Affordable Care	People unable to get or delayed in getting needed dental care due to financial or insurance reasons	17.03	3.33	MEPS	2016
Care Coordination	Children ages 2-19 who visited emergency department for asthma	93.86	2.56	NHAMCS	2015
Care Coordination	Hospital admissions for asthma per 100,000 population, children ages 2-17	77.56	5.18	HCUP	2016
Care Coordination	Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years	32.89	2.69	HCUP	2016
Care Coordination	Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years	28.29	2.82	HCUP	2016
Care Coordination	Hospital admissions for long-term complications of diabetes per 100,000 population, adults	24.10	4.10	HCUP	2016
Care Coordination	Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes	16.00	2.47	HCUP	2016
Effective Treatment	New HIV cases per 100,000 population age 13 and over	268.85	73.34	HIV_AIDSSS	2015
Effective Treatment	Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population	146.64	56.29	USRDS	2016
Effective Treatment	HIV infection deaths per 100,000 population	112.50	8.83	NVSS_M	2016
Effective Treatment	Acute stroke patients for whom IV thrombolytic therapy was initiated at hospital within 3 hours of time last known well	84.35	11.76	QIO	2016
Effective Treatment	Stroke patients who received venous thromboembolism (VTE) prophylaxis	68.00	14.91	QIO	2015

Priority Area	Measures for Hispanics Worse Than Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Effective Treatment	Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	56.11	4.38	NSDUH	2016
Effective Treatment	Hospital patients with heart attack given fibrinolytic medication within 30 minutes of arrival	43.12	2.76	QIO	2015
Effective Treatment	Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	42.37	3.59	MEPS	2016
Effective Treatment	Stroke patients with educational material addressing activation of emergency medical system, follow-up after discharge, educations prescribed at discharge, risk factors for stroke, warning signs and symptoms of stroke	40.74	11.04	QIO	2015
Effective Treatment	People age 13 and over living with HIV who know their serostatus	38.66	32.53	HIV_AIDSSS	2015
Effective Treatment	Stroke patients prescribed statin medication at hospital discharge	26.67	5.88	QIO	2015
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	20.18	2.08	MEPS	2016
Effective Treatment	Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	20.04	3.36	NSDUH	2016
Effective Treatment	People age 13 and over living with diagnosed HIV whose most recent viral load in the last 12 months was under 200 copies/mL	19.76	46.67	HIV_AIDSSS	2015
Effective Treatment	Adult end stage renal disease (ESRD) patients who saw a nephrologist at least 12 months prior to initiation of renal replacement therapy	18.04	25.15	USRDS	2016
Healthy Living	Children who had their height and weight measured by a health provider within the past 2 years	117.78	5.30	MEPS	2016
Healthy Living	Hospital patients who received influenza vaccination	83.05	48.05	QIO	2016
Healthy Living	Adults age 65 and over who ever received pneumococcal vaccination	82.84	7.15	NHIS	2017
Healthy Living	Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	80.33	6.43	NHIS	2017
Healthy Living	Children ages 2-19 with obesity	60.54	5.70	NHANES	2016
Healthy Living	Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over	55.63	5.47	HCUP	2016

Appendix A: List of Measures and Summary of Results for Figures

Priority Area	Measures for Hispanics Worse Than Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	40.95	2.27	NIS_TEEN	2016
Healthy Living	Adults who had a preventive dental service in the calendar year	37.62	15.54	MEPS	2016
Healthy Living	Home health care patients whose shortness of breath decreased	34.07	90.21	OASIS	2016
Healthy Living	Home health patients who had improvement in upper body dressing	34.00	83.35	OASIS	2016
Healthy Living	Home health care patients whose ability to get in and out of bed improved	33.87	103.90	OASIS	2016
Healthy Living	Children ages 0-17 with wellness checkup in the past 12 months	32.61	3.59	NHIS	2017
Healthy Living	Adults with obesity age 20 and over who had been told by a doctor or health professional that they were overweight	31.34	4.04	NHANES	2016
Healthy Living	Home health care patients whose ability to walk or move around improved	31.14	88.25	OASIS	2016
Healthy Living	Adults with a dental visit in the calendar year	30.25	15.20	MEPS	2016
Healthy Living	Women ages 21-65 who received a Pap smear in the last 3 years	29.31	3.67	NHIS	2015
Healthy Living	Home health care patients whose bathing improved	27.41	69.62	OASIS	2016
Healthy Living	Cervical cancer diagnosed at advanced stage (all invasive tumors) per 100,000 women age 20 and over	26.92	8.85	NPCR_USCS	2015
Healthy Living	Children ages 2-17 who had a dental visit in the calendar year	22.64	4.15	MEPS	2016
Healthy Living	Adults ages 18 and over who received influenza vaccination in the last flu season	20.92	6.75	NHIS	2017
Healthy Living	Children ages 2-17 who had a preventive dental service in the calendar year	15.23	3.36	MEPS	2016
Healthy Living	Hospital patients who received pneumococcal immunization	10.34	3.44	QIO	2015
Patient Safety	Home health care patients whose management of oral medications improved	35.04	127.50	OASIS	2016
Patient Safety	Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults	15.54	2.74	HCUP	2016
Person-Centered Care	Family caregivers who received right amount of emotional and spiritual supports from hospice care team	79.21	26.61	HOSPICE_CAHPs	2017
Person-Centered Care	People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	54.92	4.68	MEPS	2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	53.37	3.81	MEPS	2016

Priority Area	Measures for Hispanics Worse Than Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	47.88	3.27	MEPS	2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	39.51	3.97	MEPS	2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	34.58	2.55	MEPS	2016
Person-Centered Care	Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	19.57	2.23	MEPS	2016
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	15.20	2.57	MEPS	2016
Person-Centered Care	Hospice patients whose hospice care team always treated them with dignity and respect, and really cared about them	12.00	5.37	HOSPICE_CAHPs	2017
Person-Centered Care	Family caregivers who would definitely recommend this hospice to their friends and family	12.00	4.37	HOSPICE_CAHPs	2017

Measures Included in Figure 58: Number and percentage of quality measures with disparity at baseline for which disparities related to race and ethnicity were improving, not changing, or worsening, 2000 through 2013, 2014, 2015, 2016, or 2017

Blacks vs. Whites

Disparities Between Blacks and Whites Improving	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population	0.27	-10.05	USRDS	2001-2016
Hospital patients with heart attack given fibrinolytic medication within 30 minutes of arrival	-1.79	-3.59	QIO	2005-2013
New HIV cases per 100,000 population age 13 and over	-0.20	-3.14	HIV_AIDSSS	2008-2015
HIV infection deaths per 100,000 population	-0.12	-1.14	NVSS_M	2000-2016

Disparities Between Blacks and Whites Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-0.528	-0.789	MEPS	2002-2016
Adult hospital patients who did not receive good communication about discharge information	-0.695	-0.853	HCAHPS	2009-2017
Home health patients who had timely initiation of care	-0.78	-0.56	OASIS	2013-2016
Home health care patients who had to be admitted to the hospital	-0.14	-0.38	OASIS	2013-2016
Home health care patients who had an emergency department visit and then hospitalized	0.6	0.69	OASIS	2013-2016
Children ages 2-19 who visited emergency department for asthma	1.708	5.24	NHAMCS	2008-2015
Acute stroke patients for whom IV thrombolytic therapy was initiated at hospital within 3 hours of time last known well	-6.41	-8	QIO	2013-2016
Lung cancer deaths per 100,000 population per year	-1.037	-1.461	NVSS_M	2000-2016
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-0.328	-1.293	NSDUH	2008-2016
Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-0.799	-1.273	NCDB	2005-2014
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	0.052	-0.737	NSDUH	2008-2016

Disparities Between Blacks and Whites Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Colorectal cancer deaths per 100,000 population per year	-0.411	-0.634	NVSS_M	2000-2016
People age 13 and over living with HIV who know their serostatus	-0.349	-0.574	HIV_AIDSSS	2010-2015
Breast cancer deaths per 100,000 female population per year	-0.414	-0.468	NVSS_M	2000-2016
Adult hemodialysis patients who use arteriovenous fistulas as the primary mode of vascular access	-0.4	-0.43	USRDS	2012-2016
Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg	-0.51	-0.183	NHANES	2004-2016
People age 12 and over treated for substance abuse who completed treatment course	0.436	0.019	TEDS	2005-2016
Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure	0.732	0.233	USRDS	2000-2013
Home health care patients whose ability to get in and out of bed improved	-3.89	-3.72	OASIS	2013-2016
Home health care patients whose ability to walk or move around improved	-3.42	-3.5	OASIS	2013-2016
Colorectal cancer diagnosed at advanced stage (tumors diagnosed at regional or distant stage) per 100,000 population age 50 and over	-2.663	-2.935	NPCR_USCS	2000-2015
Home health care patients whose bathing improved	-2.44	-2.59	OASIS	2013-2016
Hospital patients who received influenza vaccination	-1.29	-1.9	QIO	2012-2016
Home health patients who had improvement in upper body dressing	-1.68	-1.82	OASIS	2013-2016
Adults age 65 and over who received an influenza vaccination in the last flu season	-0.755	-1.726	NHIS	2005-2017
Infants born in the calendar year who received breastfeeding through 3 months	-2.389	-1.639	NIS	2009-2015
Adults ages 18 and over who received influenza vaccination in the last flu season	-1.093	-1.413	NHIS	2010-2017
Adults age 65 and over who ever received pneumococcal vaccination	-0.7	-1.283	NHIS	2000-2017
Children ages 2-17 who had a dental visit in the calendar year	-0.226	-0.597	MEPS	2002-2016
Children ages 2-17 who had a preventive dental service in the calendar year	-0.277	-0.564	MEPS	2002-2016
Adults with obesity age 20 and over who had been told by a doctor or health professional that they were overweight	-0.53	-0.54	NHANES	2004-2016

Disparities Between Blacks and Whites Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Children ages 5-17 with untreated dental caries	-0.253	-0.463	NHANES	2002-2016
Home health care patients who stayed at home after an episode of home health care	-0.16	-0.41	OASIS	2013-2016
Cervical cancer diagnosed at advanced stage (all invasive tumors) per 100,000 women age 20 and over	-0.125	-0.404	NPCR_USCS	2000-2015
Children ages 19-35 months who received 3 or more doses of polio vaccine	-0.143	-0.293	NIS	2001-2016
Adults with a dental visit in the calendar year	0.116	-0.18	MEPS	2002-2016
Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	0.065	-0.177	NIS	2001-2016
Live-born infants with low birth weight (less than 2,500 g)	-0.01	-0.05	NVSS_N	2007-2017
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.023	-0.045	NVSS_L	2001-2016
Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	0.047	-0.043	NIS	2001-2016
Adults who had a preventive dental service in the calendar year	0.25	0	MEPS	2002-2016
Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	0.078	0.039	NIS	2001-2016
Children ages 2-19 with obesity	-0.03	0.157	NHANES	2004-2016
Hospital patients who received pneumococcal immunization	0.76	1.75	QIO	2012-2015
Hospital patients who received a hypoglycemic agent who had an adverse drug events with hypoglycemic agents	-0.603	-0.714	MPSMS	2009-2016
Mechanical adverse events in adult patients receiving central venous catheter placement	-0.1	-0.342	MPSMS	2009-2015
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-0.384	-0.449	MEPS	2002-2016
Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-0.283	-0.312	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-0.273	-0.312	MEPS	2002-2016
Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care	-0.04	0.046	HHCAHPS	2012-2017

Disparities Between Blacks and Whites Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care	0.009	0.091	HHCAHPS	2012-2017
Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care	-0.009	0.097	HHCAHPS	2012-2017

Disparities Between Blacks and Whites Worsening	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
None				

Asians vs. Whites

Disparities Between Asians and Whites Improving	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Hospital patients who received pneumococcal immunization	0.76	-2.83	QIO	2012-2015
People age 13 and over living with HIV who know their serostatus	-0.35	-1.96	HIV_AIDSSS	2010-2015

Disparities Between Asians and Whites Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Adults who reported that home health providers always seem informed and up-to-date about all the cares or treatments they got at home in the last 2 months of care	-0.331	-0.56	HHCAHPS	2012-2017
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-0.399	-0.297	MEPS	2002-2016
Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure	0.732	0.251	USRDS	2000-2013
Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population	0.266	1.121	USRDS	2001-2016
Hospital patients who received influenza vaccination	-1.29	-2.59	QIO	2012-2016
Adults age 65 and over who ever received pneumococcal vaccination	-0.7	-1.182	NHIS	2000-2017
Home health patients who had improvement in upper body dressing	-1.68	-1.18	OASIS	2013-2016
Children ages 2-17 who had a dental visit in the calendar year	-0.226	-0.796	MEPS	2002-2016

Disparities Between Asians and Whites Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Children ages 2-17 who had a preventive dental service in the calendar year	-0.277	-0.786	MEPS	2002-2016
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-0.429	-0.703	MEPS	2002-2016
Women ages 50-74 who received a mammogram in the last 2 years	0.364	-0.427	NHIS	2000-2015
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-0.118	-0.264	NHIS	2003-2017
Women ages 21-65 who received a Pap smear in the last 3 years	0.481	-0.133	NHIS	2000-2015
Live-born infants with low birth weight (less than 2,500 g)	-0.01	0.012	NVSS_N	2007-2017
Adults with a dental visit in the calendar year	0.116	0.056	MEPS	2002-2016
Adults who had a preventive dental service in the calendar year	0.25	0.174	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-0.429	-0.791	MEPS	2002-2016
Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-0.283	-0.6	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-0.273	-0.537	MEPS	2002-2016
Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care	-0.203	-0.474	HHCAHPS	2012-2017
Adults who reported that home health providers always listen carefully to them in the last 2 months of care	-0.089	-0.469	HHCAHPS	2012-2017
Adults who reported that home health providers always kept them informed about when they would arrive at their home in the last 2 months of care	-0.097	-0.394	HHCAHPS	2012-2017
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-0.225	-0.354	MEPS	2002-2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-1.034	-0.326	MEPS	2011-2016

Disparities Between Asians and Whites Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care	-0.009	-0.317	HHCAHPS	2012-2017
Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care	-0.04	-0.28	HHCAHPS	2012-2017
Adults who reported that home health providers talk about pain in the last 2 months of care	-0.389	-0.22	HHCAHPS	2012-2017
Adults who reported being told what care and services they would get when they first started getting home health care	-0.1	-0.169	HHCAHPS	2012-2017
Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care	0.009	0.043	HHCAHPS	2012-2017

Disparities Between Asians and Whites Worsening	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Home health care patients whose management of oral medications improved	-3.42	-1.88	OASIS	2013-2016

American Indians and Alaska Natives vs. Whites

Disparities Between AI/ANs and Whites Improving	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population	0.27	-16.38	USRDS	2001-2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-1.19	-2.53	MEPS	2002-2015

Disparities Between AI/ANs and Whites Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Home health patients who had timely initiation of care	-0.78	-0.82	OASIS	2013-2016
Adult hospital patients who did not receive good communication about discharge information	-0.695	-0.815	HCAHPS	2009-2017
Home health care patients who had to be admitted to the hospital	-0.14	-0.3	OASIS	2013-2016
Home health care patients who had an emergency department visit without a hospitalization	0.07	0.16	OASIS	2013-2016

Appendix A: List of Measures and Summary of Results for Figures

Disparities Between AI/ANs and Whites Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
People age 13 and over living with HIV who know their serostatus	-0.349	-1.029	HIV_AIDSSS	2010-2015
Short-stay home health patients who had diabetic foot care and patient education	-0.39	-0.52	OASIS	2013-2016
Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure	0.732	0.451	USRDS	2000-2013
Home health care patients whose ability to walk or move around improved	-3.42	-3.41	OASIS	2013-2016
Home health care patients whose shortness of breath decreased	-2.75	-3.19	OASIS	2013-2016
Home health care patients whose bathing improved	-2.44	-2.68	OASIS	2013-2016
Home health care patients whose pain when moving around decreased	-2.54	-2.42	OASIS	2013-2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-1.331	-2.37	MEPS	2002-2015
Home health patients who had improvement in upper body dressing	-1.68	-2.18	OASIS	2013-2016
Infants born in the calendar year who received breastfeeding through 3 months	-2.389	-1.557	NIS	2009-2015
Hospital patients who received influenza vaccination	-1.29	-1.42	QIO	2012-2016
Home health care patients who stayed at home after an episode of home health care	-0.16	-0.5	OASIS	2013-2016
Adults with a dental visit in the calendar year	0.116	-0.274	MEPS	2002-2016
Adults who had a preventive dental service in the calendar year	0.25	-0.079	MEPS	2002-2016
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.023	-0.043	NVSS_L	2001-2016
Hospital patients who received pneumococcal immunization	0.76	0.19	QIO	2012-2015
Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care	-0.203	-0.403	HHCAHPS	2012-2017
Adults who reported being told what care and services they would get when they first started getting home health care	-0.1	-0.331	HHCAHPS	2012-2017
Adults who reported that home health providers always kept them informed about when they would arrive at their home in the last 2 months of care	-0.097	-0.311	HHCAHPS	2012-2017

Disparities Between AI/ANs and Whites Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Adults who reported that home health providers always listen carefully to them in the last 2 months of care	-0.089	-0.106	HHCAHPS	2012-2017
Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care	-0.04	-0.097	HHCAHPS	2012-2017
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-0.241	-0.056	MEPS	2002-2013
Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care	0.009	-0.023	HHCAHPS	2012-2017
Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care	-0.009	-0.02	HHCAHPS	2012-2017
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-0.273	0.064	MEPS	2002-2016
Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-0.283	0.199	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-0.429	0.309	MEPS	2002-2016

Disparities Between AI/ANs and Whites Worsening	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
None				

Native Hawaiians/Pacific Islanders vs. Whites

Disparities Between NHPs and Whites Improving	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
People age 13 and over living with HIV who know their serostatus	-0.35	-1.61	HIV_AIDSSS	2010-2015

Disparities Between NHPs and Whites Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Home health patients who had timely initiation of care	-0.78	-0.87	OASIS	2013-2016

Disparities Between NHPs and Whites Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Adult hospital patients who did not receive good communication about discharge information	-0.695	-0.768	HCAHPS	2009-2017
Adults who reported that home health providers always seem informed and up-to-date about all the cares or treatments they got at home in the last 2 months of care	-0.331	-0.16	HHCAHPS	2012-2017
New HIV cases per 100,000 population age 13 and over	-0.2	-0.229	HIV_AIDSSS	2008-2015
Home health patients who had improvement in upper body dressing	-1.68	-1.78	OASIS	2013-2016
Hospital patients who received influenza vaccination	-1.29	-0.97	QIO	2013-2016
Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care	0.009	0.091	HHCAHPS	2012-2017
Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care	-0.04	0.177	HHCAHPS	2012-2017
Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care	-0.203	0.317	HHCAHPS	2012-2017
Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care	-0.009	0.42	HHCAHPS	2012-2017
Adults who reported that home health providers always listen carefully to them in the last 2 months of care	-0.089	0.52	HHCAHPS	2012-2017

Disparities Between NHPs and Whites Worsening	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
None				

Hispanics vs. Non-Hispanic Whites

Disparities Between Hispanics and Non-Hispanic Whites Improving	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population	-0.03	-8.24	USRDS	2001-2016
Home health care patients whose shortness of breath decreased	-2.75	-4.35	OASIS	2013-2016
Children ages 2-17 who had a preventive dental service in the calendar year	-0.09	-1.23	MEPS	2002-2016

Disparities Between Hispanics and Non-Hispanic Whites Improving	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Children ages 2-17 who had a dental visit in the calendar year	-0.05	-1.12	MEPS	2002-2016
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	0.04	-0.97	MEPS	2002-2016

Disparities Between Hispanics and Non-Hispanic Whites Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-0.353	-0.766	MEPS	2002-2016
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-0.513	-0.588	MEPS	2002-2016
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	0.041	0.469	MEPS	2002-2016
Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-0.799	-1.653	NCDB	2005-2014
New HIV cases per 100,000 population age 13 and over	-0.2	-0.908	HIV_AIDSSS	2008-2015
Adult end stage renal disease (ESRD) patients who saw a nephrologist at least 12 months prior to initiation of renal replacement therapy	-1.145	-0.865	USRDS	2005-2016
Short-stay home health patients who had diabetic foot care and patient education	-0.39	-0.79	OASIS	2013-2016
People age 13 and over living with HIV who know their serostatus	-0.349	-0.511	HIV_AIDSSS	2010-2015
HIV infection deaths per 100,000 population	-0.098	-0.332	NVSS_M	2000-2016
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-0.453	-0.322	NSDUH	2008-2016
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-0.121	-0.224	NHIS	2009-2017
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	0.058	-0.202	NSDUH	2008-2016
Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure	0.77	0.377	USRDS	2000-2013
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	0.069	0.516	MEPS	2002-2016

Disparities Between Hispanics and Non-Hispanic Whites Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Home health care patients whose ability to get in and out of bed improved	-3.89	-2.55	OASIS	2013-2016
Adults age 65 and over who received an influenza vaccination in the last flu season	-0.712	-1.625	NHIS	2005-2017
Adults who received a blood cholesterol measurement in the last 5 years	-1.122	-1.406	NHIS	2003-2017
Hospital patients who received influenza vaccination	-1.29	-1.36	QIO	2012-2016
Adults ages 18 and over who received influenza vaccination in the last flu season	-1.125	-1.332	NHIS	2010-2017
Adults with obesity who ever received advice from a health professional to exercise more	-0.336	-1.193	MEPS	2002-2016
Adults age 65 and over who ever received pneumococcal vaccination	-0.731	-1.181	NHIS	2000-2017
Children ages 0-17 with wellness checkup in the past 12 months	-0.992	-1.174	NHIS	2000-2017
Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	-0.35	-0.868	NHIS	2010-2017
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-0.312	-0.867	MEPS	2002-2016
Children who had their height and weight measured by a health provider within the past 2 years	-0.453	-0.704	MEPS	2002-2016
Cervical cancer diagnosed at advanced stage (all invasive tumors) per 100,000 women age 20 and over	-0.127	-0.575	NPCR_USCS	2000-2015
Adults with a dental visit in the calendar year	0.093	-0.256	MEPS	2002-2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-0.108	-0.255	NHIS	2003-2017
Adults who had a preventive dental service in the calendar year	0.224	-0.143	MEPS	2002-2016
Women ages 50-74 who received a mammogram in the last 2 years	0.389	-0.105	NHIS	2000-2015
Hospital patients who received pneumococcal immunization	0.76	-0.09	QIO	2012-2015
Women ages 21-65 who received a Pap smear in the last 3 years	0.474	0.25	NHIS	2000-2015
Home health care patients whose management of oral medications improved	-3.42	-3.79	OASIS	2013-2016
Hospital patients who received a hypoglycemic agent who had an adverse drug events with hypoglycemic agents	-0.603	-0.859	MPSMS	2010-2016

Disparities Between Hispanics and Non-Hispanic Whites Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Adult surgery patients with catheter-associated urinary tract infection	-0.127	-0.256	MPSMS	2010-2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-0.946	-1.766	MEPS	2011-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-0.421	-0.551	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-0.258	-0.504	MEPS	2002-2016
Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-0.269	-0.483	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-0.246	-0.294	MEPS	2002-2016
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-0.435	-0.273	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-0.231	-0.228	MEPS	2002-2016

Disparities Between Hispanics and Non-Hispanic Whites Worsening	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Home health patients who had improvement in upper body dressing	-1.68	-0.24	OASIS	2013-2016
Home health care patients whose ability to walk or move around improved	-3.42	-2.32	OASIS	2013-2016

Measures Included in Figure 59: Number and percentage of quality measures for which Blacks experienced better, same, or worse quality of care compared with reference group (White), 2013, 2015, 2016, or 2017

Priority Area	Measures for Blacks Better Than Whites	Relative Difference	Z Score	Data Source	Data Year
Affordable Care	People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-31.69	-6.29	MEPS	2016
Care Coordination	Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over	-20.22	-8.50	HCUP	2016
Care Coordination	Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years	-15.12	-1.98	HCUP	2016
Care Coordination	Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, adults	-13.83	-9.50	HCUP	2016
Effective Treatment	Suicide deaths among persons age 12 and over per 100,000 population	-60.33	-78.50	NVSS_M	2016
Effective Treatment	Deaths per 1,000 adult hospital admissions with congestive heart failure	-48.46	-27.80	HCUP	2016
Effective Treatment	Deaths per 1,000 adult hospital admissions with pneumonia	-24.30	-9.57	HCUP	2016
Effective Treatment	Stroke patients prescribed statin medication at hospital discharge	-20.00	-7.44	QIO	2015
Effective Treatment	Short-stay home health patients who had diabetic foot care and patient education	-18.52	-17.70	OASIS	2016
Effective Treatment	Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI)	-12.93	-5.75	HCUP	2016
Effective Treatment	Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over	-11.66	-3.35	HCUP	2016
Effective Treatment	Stroke patients with educational material addressing activation of emergency medical system, follow-up after discharge, educations prescribed at discharge, risk factors for stroke, warning signs and symptoms of stroke	-11.11	-4.79	QIO	2015
Healthy Living	Adults who received a blood cholesterol measurement in the last 5 years	-22.83	-3.24	NHIS	2017
Healthy Living	Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	-22.46	-2.60	NIS_TEEN	2016
Healthy Living	Children ages 0-17 with wellness checkup in the past 12 months	-20.13	-2.04	NHIS	2017
Healthy Living	Women ages 21-65 who received a Pap smear in the last 3 years	-15.14	-2.09	NHIS	2015

Priority Area	Measures for Blacks Better Than Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-10.07	-2.14	MEPS	2016
Patient Safety	Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults	-60.00	-2.12	HCUP	2016
Patient Safety	Adults who reported a home health provider asking to see all the prescription and over-the-counter medicines they were taking, when they first started getting home health care	-53.69	-128.00	HHCAHPS	2017
Patient Safety	Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	-48.39	-21.20	HCUP	2016
Patient Safety	Obstetric trauma per 1,000 instrument-assisted deliveries	-37.42	-14.00	HCUP	2016
Patient Safety	Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults	-30.43	-4.95	HCUP	2016
Patient Safety	Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults	-30.14	-3.77	HCUP	2016
Patient Safety	Birth trauma - injury to neonate per 1,000 selected live births	-27.84	-3.92	HCUP	2016
Patient Safety	Adults who reported a home health provider talking with them about all the prescription and over-the-counter medicines they were taking when they first started getting home health care	-18.01	-28.40	HHCAHPS	2017
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-17.04	-6.76	MEPS	2016
Person-Centered Care	Adult hospital patients who sometimes or never had good communication about medications they received in the hospital	-12.48	-19.90	HCAHPS	2017
Person-Centered Care	Hospice patients whose hospice care team always communicated well with their family caregivers about taking care them	-11.33	-10.30	HOSPICE_CAHPS	2017

Priority Area	Measures for Blacks Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Affordable Care	People unable to get or delayed in getting needed dental care due to financial or insurance reasons	-4.76	-0.94	MEPS	2016
Affordable Care	People without a usual source of care who indicated a financial or insurance reason for not having a source of care	3.62	0.31	MEPS	2016
Affordable Care	People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	7.76	0.98	MEPS	2016

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Priority Area	Measures for Blacks Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Affordable Care	People unable to get or delayed in getting needed medical care due to financial or insurance reasons	20.58	1.79	MEPS	2016
Care Coordination	Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over	-7.20	-2.47	HCUP	2016
Care Coordination	Home health care patients who had an emergency department visit without a hospitalization	-2.56	-3.54	OASIS	2016
Care Coordination	Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children	1.99	0.57	HCUP	2016
Care Coordination	Adults who reported that home health providers always seem informed and up-to-date about all the cares or treatments they got at home in the last 2 months of care	4.00	13.73	HHCAHPS	2017
Care Coordination	Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years	6.91	0.67	HCUP	2016
Care Coordination	People with a usual source of care who usually asks about prescription medications and treatments from other doctors	8.06	1.08	MEPS	2016
Effective Treatment	Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair	-19.22	-1.69	HCUP	2016
Effective Treatment	Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-12.29	-1.42	NHIS	2017
Effective Treatment	Adults age 40 and over with diabetes whose condition was diagnosed	-4.76	-0.18	NHANES	2016
Effective Treatment	People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months	-4.00	-1.75	NSDUH	2016
Effective Treatment	Stroke patients who received venous thromboembolism (VTE) prophylaxis	-4.00	-1.49	QIO	2015
Effective Treatment	Patients with tuberculosis who completed a curative course of treatment within 1 year of initiation of treatment	0.00	0.00	NTBSS	2015
Effective Treatment	Lung cancer deaths per 100,000 population per year	2.04	2.53	NVSS_M	2016
Effective Treatment	People age 12 and over treated for substance abuse who completed treatment course	2.48	12.52	TEDSD	2016
Effective Treatment	Adults with hypertension with blood pressure less than 140/90 mm/Hg	3.37	1.41	NHANES	2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	4.31	0.39	MEPS	2016

Priority Area	Measures for Blacks Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Effective Treatment	Acute stroke patients for whom IV thrombolytic therapy was initiated at hospital within 3 hours of time last known well	4.35	0.93	QIO	2016
Effective Treatment	People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months	4.42	1.13	NSDUH	2016
Effective Treatment	People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	4.55	1.64	MEPS	2016
Effective Treatment	Dialysis patients who were registered on a waiting list for transplantation	4.65	13.79	USRDS	2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	6.41	0.73	MEPS	2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	8.79	0.53	MEPS	2016
Effective Treatment	Adult end stage renal disease (ESRD) patients who saw a nephrologist at least 12 months prior to initiation of renal replacement therapy	9.90	17.87	USRDS	2016
Effective Treatment	People age 13 and over living with diagnosed HIV who had at least two CD4 or viral load tests performed at least 3 months apart during the last year, among reporting jurisdictions	9.95	28.99	HIV_AIDSSS	2015
Effective Treatment	Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over	13.98	1.83	HCUP	2016
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	-17.44	-1.49	NIS_TEEN	2016
Healthy Living	Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-12.71	-1.02	NIS_TEEN	2016
Healthy Living	Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-11.11	-1.19	NHIS	2017
Healthy Living	Women ages 50-74 who received a mammogram in the last 2 years	-10.99	-1.54	NHIS	2015
Healthy Living	Adolescent males ages 16-17 who received 3 or more doses of human papillomavirus (HPV) vaccine	-7.72	-1.25	NIS_TEEN	2016
Healthy Living	Adults with obesity who ever received advice from a health professional to exercise more	-7.39	-1.55	MEPS	2016
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-5.08	-0.29	NIS_TEEN	2016

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Priority Area	Measures for Blacks Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Adolescents females ages 13-15 who received 3 or more doses human papillomavirus vaccine	-4.76	-0.92	NIS_TEEN	2016
Healthy Living	Adolescents females ages 16-17 who received 3 or more doses human papillomavirus vaccine	-4.18	-0.43	NIS_TEEN	2016
Healthy Living	Children with obesity 2-19 years of age who had been told by a doctor or health professional that they were overweight	-3.24	-0.43	NHANES	2016
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	-1.34	-0.16	NHIS	2017
Healthy Living	Children ages 19-35 months who received 1 or more doses of varicella vaccine	-1.04	-0.07	NIS	2016
Healthy Living	Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-0.19	-0.06	MEPS	2016
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	0.83	0.14	MEPS	2016
Healthy Living	Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	1.45	0.29	MEPS	2016
Healthy Living	Children 0-40 lb for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	2.05	0.20	MEPS	2016
Healthy Living	Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	2.13	0.14	NIS	2016
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	2.50	0.68	MEPS	2016
Healthy Living	Adolescent males ages 13-15 who received 3 or more doses of human papillomavirus (HPV) vaccine	2.56	0.64	NIS_TEEN	2016
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	2.78	0.97	NHIS	2017
Healthy Living	Children ages 3-5 who ever had their vision checked by a health provider	4.38	0.39	MEPS	2016
Healthy Living	Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	5.12	0.80	MEPS	2016
Healthy Living	Home health care patients whose pain when moving around decreased	6.87	17.65	OASIS	2016

Priority Area	Measures for Blacks Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	7.95	1.72	MEPS	2016
Healthy Living	Children ages 6 months to 17 years who received influenza vaccination in the last flu season	8.86	1.46	NHIS	2017
Healthy Living	Children ages 19-35 months who received 3 or more doses of polio vaccine	15.19	0.89	NIS	2016
Healthy Living	Children who had their height and weight measured by a health provider within the past 2 years	25.40	1.55	MEPS	2016
Healthy Living	Adults age 65 and over who received an influenza vaccination in the last flu season	27.05	1.89	NHIS	2017
Healthy Living	Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	30.23	1.52	NIS	2016
Patient Safety	Adverse drug event with IV heparin in adult hospital patients who received an anticoagulant	-15.91	-0.62	MPSMS	2016
Patient Safety	Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children	-6.45	-0.35	HCUP	2016
Patient Safety	Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults	-4.63	-0.86	HCUP	2016
Patient Safety	Deaths per 1,000 hospital admissions with expected low-mortality	-4.17	-0.45	HCUP	2016
Patient Safety	Adults who reported that home health providers talked with them about when to take medicines in the last 2 months of care	0.00	0.00	HHCAHPS	2017
Patient Safety	Adults home health patients age 18 and over who reported that home health providers talked with them about the side effects of medicines in the last 2 months of care	0.53	3.92	HHCAHPS	2017
Patient Safety	Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions	0.75	0.40	HCUP	2016
Patient Safety	Home health care patients whose management of oral medications improved	1.08	3.92	OASIS	2016
Patient Safety	Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	1.51	0.10	MEPS	2016
Patient Safety	Adults who reported that home health providers talked with them about the purpose for taking their new or changed prescription medicines in the last 2 months of care	2.34	15.69	HHCAHPS	2017

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Priority Area	Measures for Blacks Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Patient Safety	Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults	11.90	1.31	HCUP	2016
Patient Safety	Adult surgery patients with catheter-associated urinary tract infection	29.17	1.02	MPSMS	2016
Patient Safety	Adults age 65 and over who received in the calendar year at least 1 of 11 prescription medications that should be avoided in older adults	30.56	0.72	MEPS	2016
Patient Safety	Hospital patients with an anticoagulant-related adverse drug event to low-molecular-weight heparin (LMWH) and factor Xa	32.34	1.14	MPSMS	2016
Patient Safety	Hospital patients with an anticoagulant-related adverse drug event to warfarin	62.20	1.77	MPSMS	2015
Person-Centered Care	Family members who definitely received trainings about taking care their family member from hospice care team	-8.06	-5.34	HOSPICE_CAHPS	2017
Person-Centered Care	Adults who reported that home health providers always kept them informed about when they would arrive at their home in the last 2 months of care	-7.43	-14.70	HHCAHPS	2017
Person-Centered Care	Hospice patients and family caregivers who always got help as soon as they need from hospice care team	-4.89	-3.48	HOSPICE_CAHPS	2017
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-3.41	-1.74	MEPS	2016
Person-Centered Care	Adults who reported being told what care and services they would get when they first started getting home health care	-2.78	-2.94	HHCAHPS	2017
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-1.99	-0.42	MEPS	2016
Person-Centered Care	Adults who reported that home health providers always listen carefully to them in the last 2 months of care	-1.31	-1.96	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care	-1.24	-1.96	HHCAHPS	2017
Person-Centered Care	Adults who reported getting the help or advice they needed when they contacted their home health provider in the last 2 months of care	-1.07	-7.84	HHCAHPS	2017

Priority Area	Measures for Blacks Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Person-Centered Care	Hospice patients who always received enough helps for pain, sadness, breathing, or constipations from hospice care team	0.00	0.00	HOSPICE_CAHPS	2017
Person-Centered Care	Hospice patients whose hospice care team always treated them with dignity and respect, and really cared about them	0.00	0.00	HOSPICE_CAHPS	2017
Person-Centered Care	Family caregivers who rated the hospice care for their family member best (9-10) on a scale of 0-10 (where 0 is the worst and 10 is the best)	2.03	1.26	HOSPICE_CAHPS	2017
Person-Centered Care	Adults who reported that home health providers talk about pain in the last 2 months of care	7.84	7.84	HHCAHPS	2017

Priority Area	Measures for Blacks Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Care Coordination	Hospital admissions for asthma per 100,000 population, children ages 2-17	381.05	9.84	HCUP	2016
Care Coordination	Hospital admissions for hypertension per 100,000 population, adults age 18 and over	322.89	28.49	HCUP	2016
Care Coordination	Hospital admissions for asthma per 100,000 population, adults ages 18-39	249.41	20.25	HCUP	2016
Care Coordination	Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults	221.61	23.85	HCUP	2016
Care Coordination	Children ages 2-19 who visited emergency department for asthma	202.41	4.01	NHAMCS	2015
Care Coordination	Hospital admissions for short-term complications of diabetes per 100,000 population, adults	144.89	21.93	HCUP	2016
Care Coordination	Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes	136.89	18.68	HCUP	2016
Care Coordination	Hospital admissions for long-term complications of diabetes per 100,000 population, adults	135.73	19.90	HCUP	2016
Care Coordination	Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17	51.57	3.18	HCUP	2016
Care Coordination	Adult hospital patients who strongly disagree or disagree that staff took their preferences and those of their family and caregiver into account when deciding what the patient's discharge healthcare would be	47.15	44.57	HCAHPS	2017

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Priority Area	Measures for Blacks Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Care Coordination	Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over	46.52	9.79	HCUP	2016
Care Coordination	Hospital admissions for dehydration per 100,000 population, adults age 18 and over	34.78	8.92	HCUP	2016
Care Coordination	Home health patients who had timely initiation of care	30.30	70.71	OASIS	2016
Care Coordination	Home health care patients who had to be admitted to the hospital	19.17	45.11	OASIS	2016
Care Coordination	Adult hospital patients who did not receive good communication about discharge information	14.85	20.60	HCAHPS	2017
Care Coordination	Home health care patients who had an emergency department visit and then hospitalized	12.44	23.53	OASIS	2016
Effective Treatment	New HIV cases per 100,000 population age 13 and over	770.49	114.00	HIV_AIDSSS	2015
Effective Treatment	HIV infection deaths per 100,000 population	620.00	60.80	NVSS_M	2016
Effective Treatment	Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population	170.05	70.98	USRDS	2016
Effective Treatment	Hospital admissions for congestive heart failure per 100,000 population	88.45	16.06	HCUP	2016
Effective Treatment	Breast cancer deaths per 100,000 female population per year	39.29	24.35	NVSS_M	2016
Effective Treatment	People age 13 and over living with diagnosed HIV whose most recent viral load in the last 12 months was under 200 copies/mL	37.72	89.10	HIV_AIDSSS	2015
Effective Treatment	Colorectal cancer deaths per 100,000 population per year	35.77	21.91	NVSS_M	2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg	29.85	2.85	NHANES	2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	28.34	2.85	MEPS	2016
Effective Treatment	People age 13 and over living with HIV who know their serostatus	26.89	22.63	HIV_AIDSSS	2015
Effective Treatment	Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	24.00	2.11	NSDUH	2016
Effective Treatment	Adult hemodialysis patients with adequate dialysis - (Kt/V) 12 or higher	22.22	35.78	UMKECC	2017

Priority Area	Measures for Blacks Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Effective Treatment	Adult hemodialysis patients who use arteriovenous fistulas as the primary mode of vascular access	21.13	43.29	USRDS	2016
Effective Treatment	Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	16.17	2.33	NSDUH	2016
Effective Treatment	Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure	10.30	30.76	USRDS	2013
Healthy Living	Live-born infants with low birth weight (less than 2,500 g)	85.92	215.70	NVSS_N	2017
Healthy Living	Infant mortality per 1,000 live births, birth weight 2,500 grams or more	68.42	12.75	NVSS_L	2016
Healthy Living	Hospital patients who received pneumococcal immunization	56.90	21.26	QIO	2015
Healthy Living	Children ages 5-17 with untreated dental caries	49.30	3.27	NHANES	2016
Healthy Living	Adults age 65 and over who ever received pneumococcal vaccination	48.78	5.15	NHIS	2017
Healthy Living	Children ages 2-19 with obesity	38.78	2.89	NHANES	2016
Healthy Living	Infants born in the calendar year who received breastfeeding through 3 months	36.17	8.09	NIS	2015
Healthy Living	Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	34.59	2.67	NIS	2016
Healthy Living	Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over	33.78	5.93	HCUP	2016
Healthy Living	Adults with obesity age 20 and over who had been told by a doctor or health professional that they were overweight	30.60	3.51	NHANES	2016
Healthy Living	Adults who had a preventive dental service in the calendar year	30.28	15.20	MEPS	2016
Healthy Living	Children ages 2-17 who had a dental visit in the calendar year	29.40	5.65	MEPS	2016
Healthy Living	Adults with a dental visit in the calendar year	26.83	16.18	MEPS	2016
Healthy Living	Breast cancer diagnosed at advanced stage (regional, distant stage, or local stage with tumor greater than 2 cm) per 100,000 women age 40 and over	23.51	18.66	NPCR_USCS	2015
Healthy Living	Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	22.19	2.25	MEPS	2016
Healthy Living	Children ages 2-17 who had a preventive dental service in the calendar year	20.19	4.60	MEPS	2016
Healthy Living	Home health patients who had improvement in upper body dressing	20.00	49.03	OASIS	2016
Healthy Living	Home health care patients whose ability to get in and out of bed improved	18.85	57.85	OASIS	2016

Appendix A: List of Measures and Summary of Results for Figures

Priority Area	Measures for Blacks Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Hospital patients who received influenza vaccination	18.64	10.79	QIO	2016
Healthy Living	Colorectal cancer diagnosed at advanced stage (tumors diagnosed at regional or distant stage) per 100,000 population age 50 and over	18.26	13.23	NPCR_USCS	2015
Healthy Living	Home health care patients whose ability to walk or move around improved	17.30	49.03	OASIS	2016
Healthy Living	Cervical cancer diagnosed at advanced stage (all invasive tumors) per 100,000 women age 20 and over	15.24	5.06	NPCR_USCS	2015
Healthy Living	Home health care patients whose bathing improved	14.67	37.26	OASIS	2016
Healthy Living	Adults ages 18 and over who received influenza vaccination in the last flu season	12.92	3.88	NHIS	2017
Healthy Living	Home health care patients who stayed at home after an episode of home health care	12.68	35.30	OASIS	2016
Healthy Living	Home health care patients whose shortness of breath decreased	10.00	26.48	OASIS	2016
Patient Safety	Mechanical adverse events in adult patients receiving central venous catheter placement	97.45	1.98	MPSMS	2015
Patient Safety	Hospital patients who received a hypoglycemic agent who had an adverse drug events with hypoglycemic agents	60.48	3.53	MPSMS	2016
Patient Safety	Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions	54.55	2.68	HCUP	2016
Patient Safety	Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults	40.90	8.99	HCUP	2016
Patient Safety	Postoperative hemorrhage or hematoma with surgical drainage or evacuation per 1,000 surgical hospital discharges, adults	30.59	7.49	HCUP	2016
Patient Safety	Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults	25.13	5.04	HCUP	2016
Patient Safety	Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults	13.58	3.06	HCUP	2016
Patient Safety	Adults who reported a home health provider talking with them about how to set up their home so they can move around safely when they first started getting home health care	11.64	26.48	HHCAHPS	2017
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	56.93	4.21	MEPS	2016

Priority Area	Measures for Blacks Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	55.42	3.91	MEPS	2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	41.18	3.55	MEPS	2016
Person-Centered Care	Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	40.43	3.86	MEPS	2016
Person-Centered Care	People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	40.00	4.83	MEPS	2016
Person-Centered Care	Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care	36.51	22.55	HHCAHPS	2017
Person-Centered Care	Family caregivers who received right amount of emotional and spiritual supports from hospice care team	29.52	15.42	HOSPICE_CAHP	2017
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	28.57	2.13	MEPS	2016
Person-Centered Care	Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care	24.14	13.73	HHCAHPS	2017
Person-Centered Care	Family caregivers who would definitely recommend this hospice to their friends and family	21.19	10.12	HOSPICE_CAHP	2017
Person-Centered Care	Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care	17.58	15.69	HHCAHPS	2017

Measures included in Figure 63: Number and percentage of all quality measures that were improving, not changing, or worsening, total for Blacks and by priority area, 2000 through 2013, 2014, 2015, 2016, or 2017

Improving for Blacks

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Affordable Care	People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-1.06	0.003	0.006	MEPS	15 (2002-2016)
Care Coordination	Adult hospital patients who did not receive good communication about discharge information	-5.8	0.006	0	HCAHPS	9 (2009-2017)
Care Coordination	Home health patients who had timely initiation of care	-5.75	0.014	0.055	OASIS	4 (2013-2016)
Care Coordination	People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-1.36	0.007	0.091	MEPS	15 (2002-2016)
Care Coordination	Home health care patients who had to be admitted to the hospital	-1.3	0.001	0.006	OASIS	4 (2013-2016)
Care Coordination	Adults who reported that home health providers always seem informed and up-to-date about all the cares or treatments they got at home in the last 2 months of care	-1.11	0.002	0.003	HHCAHPS	6 (2012-2017)
Effective Treatment	Acute stroke patients for whom IV thrombolytic therapy was initiated at hospital within 3 hours of time last known well	-30.88	0.037	0.01	QIO	4 (2013-2016)
Effective Treatment	Doctor's office, emergency department, and outpatient department visits where antibiotics were prescribed for a diagnosis of common cold per 10,000 population	-22.34	0.071	0.07	NAMCS_NHAMCS	4 (2011-2014)
Effective Treatment	Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-13.72	0.011	0	NCDB	10 (2005-2014)
Effective Treatment	Short-stay home health patients who had diabetic foot care and patient education	-9.68	0.025	0.054	OASIS	4 (2013-2016)
Effective Treatment	Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-8.7	0.009	0	NCDB	10 (2005-2014)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Effective Treatment	HIV infection deaths per 100,000 population	-7.81	0.004	0	NVSS_M	17 (2000-2016)
Effective Treatment	Hospital patients with heart attack given fibrinolytic medication within 30 minutes of arrival	-6.28	0.013	0.001	QIO	9 (2005-2013)
Effective Treatment	New HIV cases per 100,000 population age 13 and over	-4.92	0.005	0	HIV_AIDSSS	8 (2008-2015)
Effective Treatment	Patients with tuberculosis who completed a curative course of treatment within 1 year of initiation of treatment	-4.79	0.004	0	NTBSS	16 (2000-2015)
Effective Treatment	Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy)	-4.74	0.015	0.013	NCDB	10 (2005-2014)
Effective Treatment	Persons age 13 and over living with HIV who know their serostatus	-3.42	0.001	0	HIV_AIDSSS	6 (2010-2015)
Effective Treatment	Lung cancer deaths per 100,000 population per year	-2.77	0.001	0	NVSS_M	17 (2000-2016)
Effective Treatment	Colorectal cancer deaths per 100,000 population per year	-2.73	0.001	0	NVSS_M	17 (2000-2016)
Effective Treatment	Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population	-2.19	0.001	0	USRDS	16 (2001-2016)
Effective Treatment	Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-1.71	0.008	0.055	NSDUH	9 (2008-2016)
Effective Treatment	Breast cancer deaths per 100,000 female population per year	-1.5	0.001	0	NVSS_M	17 (2000-2016)
Effective Treatment	Adult end stage renal disease (ESRD) patients who saw a nephrologist at least 12 months prior to initiation of renal replacement therapy	-1.35	0.001	0	USRDS	12 (2005-2016)
Effective Treatment	Adult hemodialysis patients who use arteriovenous fistulas as the primary mode of vascular access	-1.03	0.003	0.055	USRDS	5 (2012-2016)

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Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-20.83	0.031	0	NIS_TEEN	9 (2008-2016)
Healthy Living	Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-18.69	0.022	0	NIS_TEEN	9 (2008-2016)
Healthy Living	Hospital patients who received influenza vaccination	-17.27	0.059	0.048	QIO	5 (2012-2016)
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	-15.69	0.016	0	NIS_TEEN	9 (2008-2016)
Healthy Living	Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	-14.7	0.011	0	NIS_TEEN	9 (2008-2016)
Healthy Living	Adolescent males ages 16-17 who received 3 or more doses of human papillomavirus (HPV) vaccine	-9.71	0.009	0.001	NIS_TEEN	5 (2012-2016)
Healthy Living	Home health care patients whose ability to walk or move around improved	-8.57	0.012	0.017	OASIS	4 (2013-2016)
Healthy Living	Home health care patients whose ability to get in and out of bed improved	-8.33	0.017	0.036	OASIS	4 (2013-2016)
Healthy Living	Home health care patients whose shortness of breath decreased	-8.2	0.015	0.029	OASIS	4 (2013-2016)
Healthy Living	Home health care patients whose bathing improved	-7.42	0.014	0.033	OASIS	4 (2013-2016)
Healthy Living	Adults who received a blood cholesterol measurement in the last 5 years	-6.76	0.014	0.035	NHIS	15 (2003-2017)
Healthy Living	Home health care patients whose pain when moving around decreased	-6.53	0.021	0.082	OASIS	4 (2013-2016)
Healthy Living	Adolescent males ages 13-15 who received 3 or more doses of human papillomavirus (HPV) vaccine	-6.19	0.004	0.001	NIS_TEEN	5 (2012-2016)
Healthy Living	Adolescents females ages 16-17 who received 3 or more doses human papillomavirus vaccine	-5.58	0.005	0	NIS_TEEN	8 (2009-2016)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Healthy Living	Home health patients who had improvement in upper body dressing	-5.4	0.014	0.061	OASIS	4 (2013-2016)
Healthy Living	Children ages 19-35 months who received 1 or more doses of varicella vaccine	-4.97	0.01	0	NIS	16 (2001-2016)
Healthy Living	Adults age 65 and over who received an influenza vaccination in the last flu season	-3.81	0.005	0	NHIS	13 (2005-2017)
Healthy Living	Adolescents females ages 13-15 who received 3 or more doses human papillomavirus vaccine	-3.77	0.005	0	NIS_TEEN	9 (2008-2016)
Healthy Living	Children ages 0-17 with wellness checkup in the past 12 months	-3.29	0.013	0.044	NHIS	9 (2009-2017)
Healthy Living	Colorectal cancer diagnosed at advanced stage (tumors diagnosed at regional or distant stage) per 100,000 population age 50 and over	-3.08	0.001	0	NPCR_USCS	16 (2000-2015)
Healthy Living	Children ages 19-35 months who received 3 or more doses of polio vaccine	-2.96	0.008	0.002	NIS	16 (2001-2016)
Healthy Living	Cervical cancer diagnosed at advanced stage (all invasive tumors) per 100,000 women age 20 and over	-2.67	0.002	0	NPCR_USCS	16 (2000-2015)
Healthy Living	Children who had their height and weight measured by a health provider within the past 2 years	-2.6	0.008	0.008	MEPS	15 (2002-2016)
Healthy Living	Infants born in the calendar year who received breastfeeding through 3 months	-2.31	0.007	0.024	NIS	7 (2009-2015)
Healthy Living	Children ages 3-5 who ever had their vision checked by a health provider	-2.3	0.005	0.001	MEPS	15 (2002-2016)
Healthy Living	Adults age 65 and over who ever received pneumococcal vaccination	-2.29	0.002	0	NHIS	18 (2000-2017)
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-2.27	0.003	0	MEPS	15 (2002-2016)
Healthy Living	Adults ages 18 and over who received influenza vaccination in the last flu season	-2.15	0.002	0	NHIS	8 (2010-2017)
Healthy Living	Adults with obesity who ever received advice from a health professional to exercise more	-1.96	0.003	0	MEPS	15 (2002-2016)

Appendix A: List of Measures and Summary of Results for Figures

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-1.74	0.002	0	MEPS	15 (2002-2016)
Healthy Living	Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-1.29	0.003	0.001	NVSS_L	16 (2001-2016)
Healthy Living	Home health care patients who stayed at home after an episode of home health care	-1.25	0.001	0.004	OASIS	4 (2013-2016)
Healthy Living	Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-1.04	0.002	0	MEPS	15 (2002-2016)
Healthy Living	Children ages 2-17 who had a dental visit in the calendar year	-1.02	0.002	0	MEPS	15 (2002-2016)
Patient Safety	Hospital patients with an anticoagulant-related adverse drug event to low-molecular-weight heparin (LMWH) and factor Xa	-11.05	0.021	0.001	MPSMS	8 (2009-2016)
Patient Safety	Adverse drug event with IV heparin in adult hospital patients who received an anticoagulant	-10.59	0.032	0.012	MPSMS	8 (2009-2016)
Patient Safety	Home health care patients whose management of oral medications improved	-7.7	0.013	0.027	OASIS	4 (2013-2016)
Patient Safety	Adult surgery patients with catheter-associated urinary tract infection	-5.96	0.016	0.008	MPSMS	8 (2009-2016)
Patient Safety	Hospital patients who received a hypoglycemic agent who had an adverse drug events with hypoglycemic agents	-5.91	0.01	0.001	MPSMS	8 (2009-2016)
Patient Safety	Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-4.54	0.007	0	MEPS	15 (2002-2016)
Patient Safety	Adults who reported a home health provider talking with them about how to set up their home so they can move around safely when they first started getting home health care	-1.02	0.002	0.005	HHCAHPS	6 (2012-2017)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-3.61	0.008	0.009	MEPS	6 (2011-2016)
Person-Centered Care	Adult hospital patients who sometimes or never had good communication about medications they received in the hospital	-3.59	0.006	0	HCAHPS	9 (2009-2017)
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-3.36	0.005	0	MEPS	15 (2002-2016)
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-2.9	0.007	0.001	MEPS	15 (2002-2016)
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-2.38	0.005	0.001	MEPS	15 (2002-2016)
Person-Centered Care	People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-2.13	0.007	0.012	MEPS	15 (2002-2016)
Person-Centered Care	Adults who reported that home health providers talk about pain in the last 2 months of care	-2.11	0.004	0.004	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-2.03	0.003	0.003	MEPS	6 (2011-2016)
Person-Centered Care	Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-1.97	0.004	0	MEPS	15 (2002-2016)
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-1.58	0.005	0.007	MEPS	15 (2002-2016)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Person-Centered Care	Adults who reported being told what care and services they would get when they first started getting home health care	-1.3	0.002	0.003	HHCAHPS	6 (2012-2017)

Not Changing for Blacks

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Affordable Care	People unable to get or delayed in getting needed dental care due to financial or insurance reasons	0.38	0.004	0.402	MEPS	15 (2002-2016)
Affordable Care	People unable to get or delayed in getting needed medical care due to financial or insurance reasons	0.08	0.007	0.911	MEPS	15 (2002-2016)
Affordable Care	People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-0.63	0.004	0.129	MEPS	15 (2002-2016)
Care Coordination	Adult hospital patients who strongly disagree or disagree that staff took their preferences and those of their family and caregiver into account when deciding what the patients discharge health care would be	-0.13	0.002	0.488	HCAHPS	4 (2014-2017)
Effective Treatment	Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	0.92	0.012	0.489	NHIS	9 (2009-2017)
Effective Treatment	People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	0.89	0.002	0.003	MEPS	14 (2003-2016)
Effective Treatment	Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure	0.25	0	0	USRDS	14 (2000-2013)
Effective Treatment	People age 12 and over treated for substance abuse who completed treatment course	0.04	0.002	0.856	TEDSD	12 (2005-2016)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Effective Treatment	Dialysis patients who were registered on a waiting list for transplantation	-0.25	0.001	0	USRDS	17 (2000-2016)
Effective Treatment	Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg	-0.28	0.007	0.727	NHANES	13 (2004-2016)
Effective Treatment	Adults with hypertension with blood pressure less than 140/90 mm/Hg	-0.48	0.003	0.245	NHANES	13 (2004-2016)
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-0.57	0.006	0.347	MEPS	15 (2002-2016)
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-0.85	0.008	0.298	MEPS	9 (2008-2016)
Effective Treatment	Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-1.94	0.011	0.123	NSDUH	9 (2008-2016)
Effective Treatment	Adults age 40 and over with diabetes whose condition was diagnosed	-2.38	0.023	0.398	NHANES	13 (2004-2016)
Healthy Living	Hospital patients who received pneumococcal immunization	12.71	0.114	0.404	QIO	4 (2012-2015)
Healthy Living	Children ages 2-19 with obesity	0.79	0.007	0.385	NHANES	13 (2004-2016)
Healthy Living	Breast cancer diagnosed at advanced stage (regional, distant stage, or local stage with tumor greater than 2 cm) per 100,000 women age 40 and over	0.43	0.002	0.037	NPCR_USCS	16 (2000-2015)
Healthy Living	Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	0.42	0.007	0.56	NIS	16 (2001-2016)
Healthy Living	Women ages 50-74 who received a mammogram in the last 2 years	0.25	0.007	0.732	NHIS	16 (2000-2015)
Healthy Living	Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	0.18	0.004	0.64	MEPS	15 (2002-2016)
Healthy Living	Adults who had a preventive dental service in the calendar year	0	0.001	0.998	MEPS	15 (2002-2016)

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Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Healthy Living	Children with obesity 2-19 years of age who had been told by a doctor or health professional that they were overweight	-0.04	0.009	0.966	NHANES	13 (2004-2016)
Healthy Living	Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	-0.2	0.006	0.748	NIS	16 (2001-2016)
Healthy Living	Adults with a dental visit in the calendar year	-0.22	0.001	0.001	MEPS	15 (2002-2016)
Healthy Living	Live-born infants with low birth weight (less than 2,500 g)	-0.38	0.002	0.04	NVSS_N	11 (2007-2017)
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-0.42	0.003	0.142	MEPS	15 (2002-2016)
Healthy Living	Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-0.42	0.003	0.179	MEPS	15 (2002-2016)
Healthy Living	Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-0.59	0.003	0.058	MEPS	15 (2002-2016)
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-0.67	0.001	0	NHIS	18 (2000-2017)
Healthy Living	Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-0.78	0.002	0.007	MEPS	15 (2002-2016)
Healthy Living	Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-0.83	0.012	0.523	NHIS	15 (2003-2017)
Healthy Living	Children ages 2-17 who had a preventive dental service in the calendar year	-0.85	0.002	0	MEPS	15 (2002-2016)
Healthy Living	Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	-0.99	0.006	0.108	MEPS	15 (2002-2016)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Healthy Living	Adults with obesity age 20 and over who had been told by a doctor or health professional that they were overweight	-1.44	0.006	0.132	NHANES	13 (2004-2016)
Healthy Living	Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	-1.51	0.011	0.177	NIS	16 (2001-2016)
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	-1.59	0.008	0.101	NHIS	8 (2010-2017)
Healthy Living	Children ages 6 months to 17 years who received influenza vaccination in the last flu season	-1.61	0.013	0.242	NHIS	8 (2010-2017)
Healthy Living	Children ages 5-17 with untreated dental caries	-1.83	0.008	0.152	NHANES	15 (2002-2016)
Patient Safety	Hospital patients with an anticoagulant-related adverse drug event to warfarin	5.75	0.07	0.481	MPSMS	6 (2010-2015)
Patient Safety	Adults who reported that home health providers talked with them about when to take medicines in the last 2 months of care	0.88	0.001	0.001	HCAHPS	6 (2012-2017)
Patient Safety	Adults who reported that home health providers talked with them about the purpose for taking their new or changed prescription medicines in the last 2 months of care	0.84	0.001	0.004	HCAHPS	6 (2012-2017)
Patient Safety	Adults home health patients age 18 and over who reported that home health providers talked with them about the side effects of medicines in the last 2 months of care	0.8	0.001	0.001	HCAHPS	6 (2012-2017)
Patient Safety	Adults who reported a home health provider talking with them about all the prescription and over-the-counter medicines they were taking when they first started getting home health care	0.24	0.004	0.588	HCAHPS	6 (2012-2017)
Patient Safety	Adults age 65 and over who received in the calendar year at least 1 of 11 prescription medications that should be avoided in older adults	-4.64	0.045	0.367	MEPS	11 (2006-2016)
Patient Safety	Mechanical adverse events in adult patients receiving central venous catheter placement	-5.08	0.075	0.521	MPSMS	7 (2009-2015)

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Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Person-Centered Care	Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care	0.93	0.002	0.008	HCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported that home health providers always listen carefully to them in the last 2 months of care	0.88	0.004	0.066	HCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported getting the help or advice they needed when they contacted their home health providers in the last 2 months of care	0.75	0	0	HCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care	0.65	0.001	0.003	HCAHPS	6 (2012-2017)
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-0.34	0.006	0.577	MEPS	6 (2011-2016)
Person-Centered Care	Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care	-0.35	0.003	0.232	HCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported that home health providers always kept them informed about when they would arrive at their home in the last 2 months of care	-0.48	0.002	0.042	HCAHPS	6 (2012-2017)

Worsening for Blacks

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Affordable Care	People without a usual source of care who indicated a financial or insurance reason for not having a source of care	2.31	0.011	0.053	MEPS	15 (2002-2016)
Care Coordination	Home health care patients who had an emergency department visit and then hospitalized	3.4	0.004	0.016	OASIS	4 (2013-2016)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Care Coordination	Children ages 2-19 who visited emergency department for asthma	2.23	0.009	0.05	NHAMCS	8 (2008-2015)
Care Coordination	Home health care patients who had an emergency department visit without a hospitalization	1.4	0.004	0.087	OASIS	4 (2013-2016)
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	2.06	0.009	0.045	MEPS	15 (2002-2016)
Effective Treatment	Suicide deaths among persons age 12 and over per 100,000 population	1.69	0.003	0.002	NVSS_M	9 (2008-2016)
Effective Treatment	Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	1.62	0.008	0.076	MEPS	15 (2002-2016)
Healthy Living	Women ages 21-65 who received a Pap smear in the last 3 years	3.21	0.011	0.041	NHIS	16 (2000-2015)
Patient Safety	Adults who reported a home health provider asking to see all the prescription and over-the-counter medicines they were taking, when they first started getting home health care	3.79	0.004	0.001	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care	1.08	0.004	0.058	HHCAHPS	6 (2012-2017)

Measures Included in Figure 64: Number and percentage of quality measures with disparity at baseline for which disparities related to race and ethnicity were improving, not changing, or worsening, total for Blacks and by priority area, 2000 through 2013, 2014, 2015, 2016, or 2017

Priority Area	Disparities Between Blacks and Whites Improving	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Effective Treatment	Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population	0.266	-10.048	USRDS	2001-2016
Effective Treatment	Hospital patients with heart attack given fibrinolytic medication within 30 minutes of arrival	-1.786	-3.585	QIO	2005-2013
Effective Treatment	New HIV cases per 100,000 population age 13 and over	-0.2	-3.136	HIV_AIDSSS	2008-2015
Effective Treatment	HIV infection deaths per 100,000 population	-0.121	-1.143	NVSS_M	2000-2016

Priority Area	Disparities Between Blacks and Whites Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Affordable Care	People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-0.528	-0.789	MEPSrac	2002-2016
Care Coordination	Adult hospital patients who did not receive good communication about discharge information	-0.695	-0.853	HCAHPS	2009-2017
Care Coordination	Home health patients who had timely initiation of care	-0.78	-0.56	OASIS	2013-2016
Care Coordination	Home health care patients who had to be admitted to the hospital	-0.14	-0.38	OASIS	2013-2016
Care Coordination	Home health care patients who had an emergency department visit and then hospitalized	0.6	0.69	OASIS	2013-2016
Care Coordination	Children ages 2-19 who visited emergency department for asthma	1.708	5.24	NHAMCS	2008-2015

Priority Area	Disparities Between Blacks and Whites Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Effective Treatment	Acute stroke patients for whom IV thrombolytic therapy was initiated at hospital within 3 hours of time last known well	-6.41	-8	QIO	2013-2016
Effective Treatment	Lung cancer deaths per 100,000 population per year	-1.037	-1.461	NVSS_M	2000-2016
Effective Treatment	Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-0.328	-1.293	NSDUH	2008-2016
Effective Treatment	Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-0.799	-1.273	NCDB	2005-2014
Effective Treatment	Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	0.052	-0.737	NSDUH	2008-2016
Effective Treatment	Colorectal cancer deaths per 100,000 population per year	-0.411	-0.634	NVSS_M	2000-2016
Effective Treatment	People age 13 and over living with HIV who know their serostatus	-0.349	-0.574	HIV_AIDSS	2010-2015
Effective Treatment	Breast cancer deaths per 100,000 female population per year	-0.414	-0.468	NVSS_M	2000-2016
Effective Treatment	Adult hemodialysis patients who use arteriovenous fistulas as the primary mode of vascular access	-0.4	-0.43	USRDS	2012-2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg	-0.51	-0.183	NHANES	2004-2016
Effective Treatment	People age 12 and over treated for substance abuse who completed treatment course	0.436	0.019	TEDS	2005-2016
Effective Treatment	Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure	0.732	0.233	USRDS	2000-2013
Healthy Living	Home health care patients whose ability to get in and out of bed improved	-3.89	-3.72	OASIS	2013-2016
Healthy Living	Home health care patients whose ability to walk or move around improved	-3.42	-3.5	OASIS	2013-2016
Healthy Living	Colorectal cancer diagnosed at advanced stage (tumors diagnosed at regional or distant stage) per 100,000 population age 50 and over	-2.663	-2.935	NPCR_USCS	2000-2015

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Priority Area	Disparities Between Blacks and Whites Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Healthy Living	Home health care patients whose bathing improved	-2.44	-2.59	OASIS	2013-2016
Healthy Living	Hospital patients who received influenza vaccination	-1.29	-1.9	QIO	2012-2016
Healthy Living	Home health patients who had improvement in upper body dressing	-1.68	-1.82	OASIS	2013-2016
Healthy Living	Adults age 65 and over who received an influenza vaccination in the last flu season	-0.755	-1.726	NHIS	2005-2017
Healthy Living	Infants born in the calendar year who received breastfeeding through 3 months	-2.389	-1.639	NIS	2009-2015
Healthy Living	Adults ages 18 and over who received influenza vaccination in the last flu season	-1.093	-1.413	NHIS	2010-2017
Healthy Living	Adults age 65 and over who ever received pneumococcal vaccination	-0.7	-1.283	NHIS	2000-2017
Healthy Living	Children ages 2-17 who had a dental visit in the calendar year	-0.226	-0.597	MEPS	2002-2016
Healthy Living	Children ages 2-17 who had a preventive dental service in the calendar year	-0.277	-0.564	MEPS	2002-2016
Healthy Living	Adults with obesity age 20 and over who had been told by a doctor or health professional that they were overweight	-0.53	-0.54	NHANES	2004-2016
Healthy Living	Children ages 5-17 with untreated dental caries	-0.253	-0.463	NHANES	2002-2016
Healthy Living	Home health care patients who stayed at home after an episode of home health care	-0.16	-0.41	OASIS	2013-2016
Healthy Living	Cervical cancer diagnosed at advanced stage (all invasive tumors) per 100,000 women age 20 and over	-0.125	-0.404	NPCR_USCS	2000-2015
Healthy Living	Children ages 19-35 months who received 3 or more doses of polio vaccine	-0.143	-0.293	NIS	2001-2016
Healthy Living	Adults with a dental visit in the calendar year	0.116	-0.18	MEPS	2002-2016
Healthy Living	Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	0.065	-0.177	NIS	2001-2016
Healthy Living	Live-born infants with low birth weight (less than 2,500 g)	-0.01	-0.05	NVSS_N	2007-2017

Priority Area	Disparities Between Blacks and Whites Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Healthy Living	Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.023	-0.045	NVSS_L	2001-2016
Healthy Living	Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	0.047	-0.043	NIS	2001-2016
Healthy Living	Adults who had a preventive dental service in the calendar year	0.25	0	MEPS	2002-2016
Healthy Living	Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	0.078	0.039	NIS	2001-2016
Healthy Living	Children ages 2-19 with obesity	-0.03	0.157	NHANES	2004-2016
Healthy Living	Hospital patients who received pneumococcal immunization	0.76	1.75	QIO	2012-2015
Patient Safety	Hospital patients who received a hypoglycemic agent who had an adverse drug events with hypoglycemic agents	-0.603	-0.714	MPSMS	2009-2016
Patient Safety	Mechanical adverse events in adult patients receiving central venous catheter placement	-0.1	-0.342	MPSMS	2009-2015
Person-Centered Care	People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-0.384	-0.449	MEPS	2002-2016
Person-Centered Care	Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-0.283	-0.312	MEPS	2002-2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-0.273	-0.312	MEPS	2002-2016
Person-Centered Care	Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care	-0.04	0.046	HHCAHPS	2012-2017
Person-Centered Care	Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care	0.009	0.091	HHCAHPS	2012-2017
Person-Centered Care	Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care	-0.009	0.097	HHCAHPS	2012-2017

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Priority Area	Disparities Blacks and Whites Worsening	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
None					

Measures Included in Figure 69: Number and percentage of quality measures for which Asians experienced better, same, or worse quality of care compared with reference group (White), 2013, 2015, 2016, or 2017

Priority Area	Measures for Asians Better Than Whites	Relative Difference	Z Score	Data Source	Data Years
Affordable Care	People without a usual source of care who indicated a financial or insurance reason for not having a source of care	-31.16	-2.40	MEPS	2016
Care Coordination	Hospital admissions for short-term complications of diabetes per 100,000 population, adults	-78.51	-28.80	HCUP	2016
Care Coordination	Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17	-74.80	-8.78	HCUP	2016
Care Coordination	Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over	-73.58	-32.60	HCUP	2016
Care Coordination	Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over	-72.50	-33.20	HCUP	2016
Care Coordination	Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over	-72.16	-36.30	HCUP	2016
Care Coordination	Hospital admissions for asthma per 100,000 population, adults ages 18-39	-69.41	-20.60	HCUP	2016
Care Coordination	Hospital admissions for dehydration per 100,000 population, adults age 18 and over	-68.94	-30.80	HCUP	2016
Care Coordination	Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes	-68.00	-17.10	HCUP	2016
Care Coordination	Hospital admissions for long-term complications of diabetes per 100,000 population, adults	-65.79	-20.00	HCUP	2016
Care Coordination	Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults	-50.97	-12.90	HCUP	2016
Care Coordination	Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years	-44.88	-6.19	HCUP	2016
Care Coordination	Hospital admissions for hypertension per 100,000 population, adults age 18 and over	-42.51	-9.42	HCUP	2016
Care Coordination	Home health care patients who had an emergency department visit without a hospitalization	-30.77	-11.80	OASIS	2016
Care Coordination	Home health care patients who had an emergency department visit and then hospitalized	-30.57	-57.90	OASIS	2016
Care Coordination	Home health care patients who had to be admitted to the hospital	-24.58	-57.90	OASIS	2016

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Priority Area	Measures for Asians Better Than Whites	Relative Difference	Z Score	Data Source	Data Years
Care Coordination	Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years	-23.68	-2.13	HCUP	2016
Effective Treatment	Hospital admissions for congestive heart failure per 100,000 population	-62.53	-21.60	HCUP	2016
Effective Treatment	HIV infection deaths per 100,000 population	-60.00	-21.20	NVSS_M	2016
Effective Treatment	Suicide deaths among persons age 12 and over per 100,000 population	-55.98	-46.10	NVSS_M	2016
Effective Treatment	Breast cancer deaths per 100,000 female population per year	-45.41	-28.10	NVSS_M	2016
Effective Treatment	Lung cancer deaths per 100,000 population per year	-45.15	-42.90	NVSS_M	2016
Effective Treatment	Short-stay home health patients who had diabetic foot care and patient education	-40.74	-10.80	OASIS	2016
Effective Treatment	Acute stroke patients for whom IV thrombolytic therapy was initiated at hospital within 3 hours of time last known well	-33.04	-4.12	QIO	2016
Effective Treatment	Colorectal cancer deaths per 100,000 population per year	-32.12	-19.70	NVSS_M	2016
Effective Treatment	Adult hemodialysis patients with adequate dialysis - (Kt/V) 12 or higher	-22.22	-25.30	UMKECC	2017
Healthy Living	Hospital patients who received pneumococcal immunization	-56.03	-13.90	QIO	2015
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	-41.65	-3.25	NHIS	2017
Healthy Living	Children ages 19-35 months who received 3 or more doses of polio vaccine	-37.97	-1.97	NIS	2016
Healthy Living	Children ages 6 months to 17 years who received influenza vaccination in the last flu season	-37.60	-4.44	NHIS	2017
Healthy Living	Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-36.84	-6.86	NVSS_L	2016
Healthy Living	Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	-36.17	-2.05	NIS	2016
Healthy Living	Children ages 19-35 months who received 1 or more doses of varicella vaccine	-35.42	-2.10	NIS	2016
Healthy Living	Children ages 2-19 with obesity	-33.33	-3.14	NHANES	2016

Priority Area	Measures for Asians Better Than Whites	Relative Difference	Z Score	Data Source	Data Years
Healthy Living	Adults who received a blood cholesterol measurement in the last 5 years	-29.13	-3.44	NHIS	2017
Healthy Living	Home health care patients who stayed at home after an episode of home health care	-27.11	-75.50	OASIS	2016
Healthy Living	Breast cancer diagnosed at advanced stage (regional, distant stage, or local stage with tumor greater than 2 cm) per 100,000 women age 40 and over	-25.61	-17.30	NPCR_USCS	2015
Healthy Living	Colorectal cancer diagnosed at advanced stage (tumors diagnosed at regional or distant stage) per 100,000 population age 50 and over	-24.23	-14.40	NPCR_USCS	2015
Healthy Living	Cervical cancer diagnosed at advanced stage (all invasive tumors) per 100,000 women age 20 and over	-19.05	-6.32	NPCR_USCS	2015
Patient Safety	Adult surgery patients with postoperative pneumonia events	-100.00	-7.26	MPSMS	2016
Patient Safety	Adult surgery patients with postoperative venous thromboembolic events	-100.00	-4.51	MPSMS	2016
Patient Safety	Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults	-52.05	-4.01	HCUP	2016
Patient Safety	Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults	-50.00	-2.24	HCUP	2016
Patient Safety	Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-43.42	-2.65	MEPS	2016
Patient Safety	Deaths per 1,000 hospital admissions with expected low-mortality	-41.67	-3.16	HCUP	2016
Patient Safety	Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults	-25.67	-5.65	HCUP	2016
Patient Safety	Adults who reported a home health provider asking to see all the prescription and over-the-counter medicines they were taking, when they first started getting home health care	-22.95	-18.60	HHCAHPS	2017
Person-Centered Care	Adults with limited English proficiency who had a usual source of care	-43.83	-4.47	MEPS	2016

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Priority Area	Measures for Asians Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Affordable Care	People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-13.66	-1.55	MEPS	2016
Affordable Care	People unable to get or delayed in getting needed dental care due to financial or insurance reasons	-8.59	-0.88	MEPS	2015
Care Coordination	Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, adults	-8.54	-4.27	HCUP	2016
Care Coordination	Adult hospital patients who strongly disagree or disagree that staff took their preferences and those of their family and caregiver into account when deciding what the patient's discharge healthcare would be	-2.16	-1.33	HCAHPS	2017
Care Coordination	Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children	-1.71	-0.36	HCUP	2016
Care Coordination	Hospital admissions for asthma per 100,000 population, children ages 2-17	1.09	0.07	HCUP	2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg	-13.65	-0.95	NHANES	2016
Effective Treatment	Patients with tuberculosis who completed a curative course of treatment within 1 year of initiation of treatment	-12.04	-1.53	NTBSS	2015
Effective Treatment	Deaths per 1,000 adult hospital admissions with congestive heart failure	-9.88	-2.20	HCUP	2016
Effective Treatment	Dialysis patients who were registered on a waiting list for transplantation	-9.55	-11.00	USRDS	2016
Effective Treatment	Stroke patients with educational material addressing activation of emergency medical system, follow-up after discharge, educations prescribed at discharge, risk factors for stroke, warning signs and symptoms of stroke	-7.41	-1.40	QIO	2015
Effective Treatment	Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-7.17	-0.48	NHIS	2017
Effective Treatment	Adult hemodialysis patients who use arteriovenous fistulas as the primary mode of vascular access	-6.85	-7.74	USRDS	2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-3.21	-0.19	MEPS	2016
Effective Treatment	Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure	0.47	0.63	USRDS	2013
Effective Treatment	Stroke patients prescribed statin medication at hospital discharge	3.33	0.21	QIO	2015

Priority Area	Measures for Asians Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Effective Treatment	Adult end stage renal disease (ESRD) patients who saw a nephrologist at least 12 months prior to initiation of renal replacement therapy	3.41	3.51	USRDS	2016
Effective Treatment	People age 13 and over living with diagnosed HIV who had at least two CD4 or viral load tests performed at least 3 months apart during the last year, among reporting jurisdictions	4.37	3.53	HIV_AIDSSS	2015
Effective Treatment	People age 13 and over living with diagnosed HIV whose most recent viral load in the last 12 months was under 200 copies/mL	4.79	3.14	HIV_AIDSSS	2015
Effective Treatment	New HIV cases per 100,000 population age 13 and over	4.92	1.34	HIV_AIDSSS	2015
Effective Treatment	Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over	6.36	0.63	HCUP	2016
Effective Treatment	Deaths per 1,000 adult hospital admissions with pneumonia	10.21	1.76	HCUP	2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	16.16	0.92	MEPS	2016
Effective Treatment	Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair	26.74	1.11	HCUP	2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	28.31	1.51	MEPS	2016
Effective Treatment	Adults age 40 and over with diabetes whose condition was diagnosed	66.14	1.78	NHANES	2016
Healthy Living	Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	-25.58	-1.29	NIS	2016
Healthy Living	Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	-14.47	-0.88	NIS	2016
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	-12.79	-0.61	NIS_TEEN	2016
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-7.71	-0.84	MEPS	2016
Healthy Living	Adults ages 18 and over who received influenza vaccination in the last flu season	-7.38	-1.45	NHIS	2017
Healthy Living	Home health care patients whose pain when moving around decreased	-7.25	-9.45	OASIS	2016

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Priority Area	Measures for Asians Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Adults with obesity who ever received advice from a health professional to exercise more	-4.75	-0.35	MEPS	2016
Healthy Living	Children ages 0-17 with wellness checkup in the past 12 months	-4.55	-0.35	NHIS	2017
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-3.99	-0.58	MEPS	2016
Healthy Living	Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-3.36	-0.32	MEPS	2016
Healthy Living	Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-2.78	-0.23	NHIS	2017
Healthy Living	Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-2.30	-0.25	MEPS	2016
Healthy Living	Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	-1.07	-0.04	NIS_TEEN	2016
Healthy Living	Hospital patients who received influenza vaccination	0.00	0.00	QIO	2016
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	0.19	0.03	MEPS	2016
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	0.40	0.08	NHIS	2017
Healthy Living	Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	2.42	0.32	MEPS	2016
Healthy Living	Adults with a dental visit in the calendar year	2.81	1.03	MEPS	2016
Healthy Living	Children ages 2-17 who had a dental visit in the calendar year	3.24	0.40	MEPS	2016
Healthy Living	Adults who had a preventive dental service in the calendar year	3.87	1.17	MEPS	2016
Healthy Living	Adolescent males ages 16-17 who received 3 or more doses of human papillomavirus (HPV) vaccine	5.31	0.71	NIS_TEEN	2015

Priority Area	Measures for Asians Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	6.25	0.26	NIS_TEEN	2015
Healthy Living	Children ages 2-17 who had a preventive dental service in the calendar year	6.67	0.91	MEPS	2016
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	7.63	0.27	NIS_TEEN	2016
Healthy Living	Adults age 65 and over who received an influenza vaccination in the last flu season	8.54	0.51	NHIS	2017
Healthy Living	Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	10.07	1.37	MEPS	2016
Healthy Living	Children 0-40 lb for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	10.56	0.63	MEPS	2016
Healthy Living	Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over	12.26	1.33	HCUP	2016
Healthy Living	Women ages 50-74 who received a mammogram in the last 2 years	19.50	1.44	NHIS	2015
Healthy Living	Children who had their height and weight measured by a health provider within the past 2 years	23.81	0.95	MEPS	2016
Patient Safety	Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions	-18.18	-0.89	HCUP	2016
Patient Safety	Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children	-6.45	-0.31	HCUP	2016
Patient Safety	Birth trauma - injury to neonate per 1,000 selected live births	-4.12	-0.59	HCUP	2016
Patient Safety	Adults home health patients age 18 and over who reported that home health providers talked with them about the side effects of medicines in the last 2 months of care	1.46	3.66	HHCAHPS	2017
Patient Safety	Adults who reported that home health providers talked with them about when to take medicines in the last 2 months of care	2.11	4.99	HHCAHPS	2017
Patient Safety	Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults	2.39	0.34	HCUP	2016

Appendix A: List of Measures and Summary of Results for Figures

Priority Area	Measures for Asians Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Patient Safety	Adults who reported that home health providers talked with them about the purpose for taking their new or changed prescription medicines in the last 2 months of care	5.42	12.31	HHCAHPS	2017
Patient Safety	Adults who reported a home health provider talking with them about how to set up their home so they can move around safely when they first started getting home health care	9.48	7.32	HHCAHPS	2017
Patient Safety	Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults	17.39	1.26	HCUP	2016
Patient Safety	Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults	32.14	1.56	HCUP	2016
Patient Safety	Hospital patients who received a hypoglycemic agent who had an adverse drug events with hypoglycemic agents	70.36	1.56	MPSMS	2016
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-7.04	-1.98	MEPS	2016
Person-Centered Care	Adults who reported getting the help or advice they needed when they contacted their home health provider in the last 2 months of care	-4.26	-10.60	HHCAHPS	2017
Person-Centered Care	Adult hospital patients who sometimes or never had good communication about medications they received in the hospital	-0.99	-0.89	HCAHPS	2017
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	1.18	0.08	MEPS	2016
Person-Centered Care	Family members who definitely received trainings about taking care their family member from hospice care team	3.30	1.27	HOSPICE_CAHP	2017
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	4.75	2.08	MEPS	2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	9.38	0.43	MEPS	2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	10.32	0.44	MEPS	2016

Priority Area	Measures for Asians Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Person-Centered Care	Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	14.89	1.03	MEPS	2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	35.81	1.51	MEPS	2016

Priority Area	Measures for Asians Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Care Coordination	Adults who reported that home health providers always seem informed and up-to-date about all the cares or treatments they got at home in the last 2 months of care	41.14	35.96	HCAHPS	2017
Care Coordination	People with a usual source of care who usually asks about prescription medications and treatments from other doctors	29.57	2.72	MEPS	2016
Care Coordination	Home health patients who had timely initiation of care	25.76	16.67	OASIS	2016
Care Coordination	Adult hospital patients who did not receive good communication about discharge information	13.86	11.51	HCAHPS	2017
Effective Treatment	People age 13 and over living with HIV who know their serostatus	64.71	24.35	HIV_AIDSSS	2015
Effective Treatment	Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population	54.04	20.26	USRDS	2016
Effective Treatment	Stroke patients who received venous thromboembolism (VTE) prophylaxis	52.00	2.95	QIO	2015
Effective Treatment	Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over	21.91	2.55	HCUP	2016
Effective Treatment	Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI)	19.88	4.52	HCUP	2016
Effective Treatment	People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	16.23	4.58	MEPS	2016
Effective Treatment	Adults with hypertension with blood pressure less than 140/90 mm/Hg	12.34	5.00	NHANES	2016
Healthy Living	Adults age 65 and over who ever received pneumococcal vaccination	53.66	3.97	NHIS	2017

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Priority Area	Measures for Asians Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Women ages 21-65 who received a Pap smear in the last 3 years	45.41	3.85	NHIS	2015
Healthy Living	Home health patients who had improvement in upper body dressing	30.40	37.81	OASIS	2016
Healthy Living	Home health care patients whose ability to get in and out of bed improved	26.84	41.79	OASIS	2016
Healthy Living	Home health care patients whose ability to walk or move around improved	24.57	35.32	OASIS	2016
Healthy Living	Home health care patients whose bathing improved	22.78	29.35	OASIS	2016
Healthy Living	Live-born infants with low birth weight (less than 2,500 g)	18.31	12.75	NVSS_N	2017
Healthy Living	Infants born in the calendar year who received breastfeeding through 3 months	15.53	1.97	NIS	2015
Healthy Living	Home health care patients whose shortness of breath decreased	11.85	15.92	OASIS	2016
Patient Safety	Hospital patients with an anticoagulant-related adverse drug event to low-molecular-weight heparin (LMWH) and factor Xa	320.66	2.57	MPSMS	2015
Patient Safety	Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	100.54	14.02	HCUP	2016
Patient Safety	Obstetric trauma per 1,000 instrument-assisted deliveries	60.70	8.15	HCUP	2016
Patient Safety	Postoperative hemorrhage or hematoma with surgical drainage or evacuation per 1,000 surgical hospital discharges, adults	47.03	5.90	HCUP	2016
Patient Safety	Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults	44.30	4.86	HCUP	2016
Patient Safety	Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults	30.56	2.67	HCUP	2016
Patient Safety	Home health care patients whose management of oral medications improved	27.49	50.75	OASIS	2016
Patient Safety	Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions	20.47	5.55	HCUP	2016

Priority Area	Measures for Asians Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Patient Safety	Adults who reported a home health provider talking with them about all the prescription and over-the-counter medicines they were taking when they first started getting home health care	11.80	6.32	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care	170.69	32.93	HHCAHPS	2017
Person-Centered Care	Adults with limited English proficiency and usual source of care (USC) and the USC had language assistance	163.41	2.28	MEPS	2016
Person-Centered Care	Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care	124.18	37.58	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care	67.08	35.92	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers always listen carefully to them in the last 2 months of care	57.52	29.27	HHCAHPS	2017
Person-Centered Care	People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	57.04	3.74	MEPS	2016
Person-Centered Care	Hospice patients whose hospice care team always treated them with dignity and respect, and really cared about them	56.44	11.39	HOSPICE_CAHP	2017
Person-Centered Care	Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care	49.21	15.42	HHCAHPS	2017
Person-Centered Care	Hospice patients and family caregivers who always got help as soon as they need from hospice care team	44.89	14.28	HOSPICE_CAHP	2017
Person-Centered Care	Family caregivers who would definitely recommend this hospice to their friends and family	41.06	8.77	HOSPICE_CAHP	2017
Person-Centered Care	Adults who reported that home health providers always kept them informed about when they would arrive at their home in the last 2 months of care	39.60	26.61	HHCAHPS	2017

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Priority Area	Measures for Asians Worse Than Whites	Relative Difference	Z Score	Data Source	Data Year
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	36.42	3.91	MEPS	2016
Person-Centered Care	Family caregivers who rated the hospice care for their family member best (9-10) on a scale of 0-10 (where 0 is the worst and 10 is the best)	36.04	10.04	HOSPICE_CAHPS	2017
Person-Centered Care	Family caregivers who received right amount of emotional and spiritual supports from hospice care team	33.33	6.99	HOSPICE_CAHPS	2017
Person-Centered Care	Adults who reported that home health providers talk about pain in the last 2 months of care	33.33	16.92	HHCAHPS	2017
Person-Centered Care	Adults who reported being told what care and services they would get when they first started getting home health care	28.70	10.31	HHCAHPS	2017
Person-Centered Care	Hospice patients who always received enough helps for pain, sadness, breathing, or constipations from hospice care team	26.19	9.33	HOSPICE_CAHPS	2017
Person-Centered Care	Hospice patients whose hospice care team always communicated well with their family caregivers about taking care them	25.12	10.00	HOSPICE_CAHPS	2017

Measures included in Figure 73: Number and percentage of all quality measures that were improving, not changing, or worsening, total for Asians and by priority area, 2000 through 2011, 2013, 2014, 2015, 2016, or 2017
Improving for Asians

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Care Coordination	Adult hospital patients who did not receive good communication about discharge information	-4.99	0.004	0	HCAHPS	9 (2009-2017)
Care Coordination	Adults who reported that home health providers always seem informed and up-to-date about all the cares or treatments they got at home in the last 2 months of care	-1.1	0.002	0.002	HHCAHPS	6 (2012-2017)
Care Coordination	People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-1.1	0.006	0.082	MEPS	15 (2002-2016)
Effective Treatment	Acute stroke patients for whom IV thrombolytic therapy was initiated at hospital within 3 hours of time last known well	-34	0.109	0.062	QIO	4 (2013-2016)
Effective Treatment	Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-15.77	0.008	0	NCDB	10 (2005-2014)
Effective Treatment	Hospital patients with heart attack given fibrinolytic medication within 30 minutes of arrival	-10.53	0.021	0.003	QIO	7 (2005-2011)
Effective Treatment	Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-9.42	0.016	0	NCDB	10 (2005-2014)
Effective Treatment	Patients with tuberculosis who completed a curative course of treatment within 1 year of initiation of treatment	-8.05	0.015	0.001	NTBSS	8 (2008-2015)
Effective Treatment	Persons age 13 and over living with HIV who know their serostatus	-7.7	0.007	0	HIV_AIDSSS	6 (2010-2015)
Effective Treatment	HIV infection deaths per 100,000 population	-4.86	0.007	0	NVSS_M	17 (2000-2016)
Effective Treatment	Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-4.48	0.015	0.029	NHIS	9 (2009-2017)
Effective Treatment	Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy)	-4.43	0.019	0.046	NCDB	10 (2005-2014)

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Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Effective Treatment	Colorectal cancer deaths per 100,000 population per year	-1.87	0.002	0	NVSS_M	17 (2000-2016)
Effective Treatment	Adult end stage renal disease (ESRD) patients who saw a nephrologist at least 12 months prior to initiation of renal replacement therapy	-1.69	0.001	0	USRDS	12 (2005-2016)
Effective Treatment	Lung cancer deaths per 100,000 population per year	-1.46	0.001	0	NVSS_M	17 (2000-2016)
Effective Treatment	Adult hemodialysis patients who use arteriovenous fistulas as the primary mode of vascular access	-1.45	0.006	0.086	USRDS	5 (2012-2016)
Healthy Living	Hospital patients who received pneumococcal immunization	-27.16	0.061	0.035	QIO	4 (2012-2015)
Healthy Living	Hospital patients who received influenza vaccination	-23.75	0.081	0.045	QIO	5 (2012-2016)
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-19.04	0.047	0.004	NIS_TEEN	9 (2008-2016)
Healthy Living	Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-16.76	0.054	0.015	NIS_TEEN	8 (2008-2015)
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	-14.74	0.038	0.014	NIS_TEEN	9 (2008-2016)
Healthy Living	Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	-12.68	0.038	0.01	NIS_TEEN	9 (2008-2016)
Healthy Living	Children ages 0-17 with wellness checkup in the past 12 months	-7.04	0.019	0.008	NHIS	9 (2009-2017)
Healthy Living	Adults who received a blood cholesterol measurement in the last 5 years	-6.63	0.011	0.023	NHIS	15 (2003-2017)
Healthy Living	Children who had their height and weight measured by a health provider within the past 2 years	-6.5	0.012	0	MEPS	15 (2002-2016)
Healthy Living	Children ages 6 months to 17 years who received influenza vaccination in the last flu season	-6.16	0.011	0.001	NHIS	8 (2010-2017)
Healthy Living	Children ages 19-35 months who received 1 or more doses of varicella vaccine	-5.68	0.013	0	NIS	16 (2001-2016)
Healthy Living	Home health care patients whose ability to get in and out of bed improved	-5.48	0.013	0.049	OASIS	4 (2013-2016)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Healthy Living	Home health care patients whose shortness of breath decreased	-5.33	0.001	0	OASIS	4 (2013-2016)
Healthy Living	Home health care patients whose pain when moving around decreased	-5.28	0.016	0.078	OASIS	4 (2013-2016)
Healthy Living	Home health care patients whose ability to walk or move around improved	-4.56	0.014	0.078	OASIS	4 (2013-2016)
Healthy Living	Children ages 19-35 months who received 3 or more doses of polio vaccine	-4.34	0.012	0.003	NIS	16 (2001-2016)
Healthy Living	Home health care patients whose bathing improved	-4.03	0.014	0.094	OASIS	4 (2013-2016)
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-3.85	0.004	0	MEPS	15 (2002-2016)
Healthy Living	Adults age 65 and over who received an influenza vaccination in the last flu season	-3.61	0.012	0.012	NHIS	13 (2005-2017)
Healthy Living	Colorectal cancer diagnosed at advanced stage (tumors diagnosed at regional or distant stage) per 100,000 population age 50 and over	-3.38	0.001	0	NPCR_USCS	16 (2000-2015)
Healthy Living	Home health patients who had improvement in upper body dressing	-3.37	0.007	0.037	OASIS	4 (2013-2016)
Healthy Living	Adults ages 18 and over who received influenza vaccination in the last flu season	-3.01	0.006	0.002	NHIS	8 (2010-2017)
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-2.89	0.004	0	MEPS	15 (2002-2016)
Healthy Living	Cervical cancer diagnosed at advanced stage (all invasive tumors) per 100,000 women age 20 and over	-2.87	0.003	0	NPCR_USCS	16 (2000-2015)
Healthy Living	Adults age 65 and over who ever received pneumococcal vaccination	-2.06	0.003	0	NHIS	18 (2000-2017)
Healthy Living	Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-2.05	0.006	0.007	MEPS	14 (2003-2016)
Healthy Living	Children ages 2-17 who had a dental visit in the calendar year	-1.55	0.005	0.005	MEPS	15 (2002-2016)

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Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Healthy Living	Home health care patients who stayed at home after an episode of home health care	-1.36	0.004	0.09	OASIS	4 (2013-2016)
Healthy Living	Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	-1.28	0.007	0.09	NIS	16 (2001-2016)
Healthy Living	Children ages 2-17 who had a preventive dental service in the calendar year	-1.28	0.004	0.004	MEPS	15 (2002-2016)
Healthy Living	Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-1.2	0.004	0.017	MEPS	15 (2002-2016)
Healthy Living	Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-1.04	0.004	0.016	MEPS	15 (2002-2016)
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-1.03	0.005	0.041	MEPS	15 (2002-2016)
Patient Safety	Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-6.57	0.026	0.028	MEPS	12 (2005-2016)
Patient Safety	Home health care patients whose management of oral medications improved	-3.68	0.007	0.036	OASIS	4 (2013-2016)
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-5.55	0.007	0	MEPS	15 (2002-2016)
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-5.2	0.006	0	MEPS	15 (2002-2016)
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-4.3	0.008	0	MEPS	15 (2002-2016)
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-4.14	0.006	0	MEPS	15 (2002-2016)
Person-Centered Care	Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-3.72	0.005	0	MEPS	15 (2002-2016)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Person-Centered Care	Adult hospital patients who sometimes or never had good communication about medications they received in the hospital	-3.26	0.004	0	HCAHPS	9 (2009-2017)
Person-Centered Care	People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-2.34	0.011	0.056	MEPS	15 (2002-2016)
Person-Centered Care	Adults who reported that home health providers always listen carefully to them in the last 2 months of care	-1.86	0.004	0.006	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care	-1.72	0.005	0.03	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care	-1.68	0.003	0.003	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported that home health providers talk about pain in the last 2 months of care	-1.56	0.007	0.073	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care	-1.5	0.003	0.008	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported that home health providers always kept them informed about when they would arrive at their home in the last 2 months of care	-1.35	0.001	0.001	HHCAHPS	6 (2012-2017)

Not Changing for Asians

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Affordable Care	People without a usual source of care who indicated a financial or insurance reason for not having a source of care	-0.61	0.018	0.741	MEPS	15 (2002-2016)
Affordable Care	People unable to get or delayed in getting needed dental care due to financial or insurance reasons	-1.1	0.019	0.615	MEPS	6 (2010-2015)

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Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Care Coordination	Adult hospital patients who strongly disagree or disagree that staff took their preferences and those of their family and caregiver into account when deciding what the patients discharge health care would be	0.14	0.005	0.795	HCAHPS	4 (2014-2017)
Care Coordination	Home health care patients who had to be admitted to the hospital	-1.08	0.004	0.106	OASIS	4 (2013-2016)
Care Coordination	Home health patients who had timely initiation of care	-2.39	0.027	0.461	OASIS	4 (2013-2016)
Effective Treatment	Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	3.15	0.028	0.313	MEPS	8 (2009-2016)
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	2.58	0.031	0.444	MEPS	8 (2009-2016)
Effective Treatment	People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	1.94	0.012	0.24	MEPS	5 (2012-2016)
Effective Treatment	New HIV cases per 100,000 population age 13 and over	0.92	0.009	0.365	HIV_AIDSSS	8 (2008-2015)
Effective Treatment	Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population	0.55	0.002	0.026	USRDS	16 (2001-2016)
Effective Treatment	Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure	0.3	0.001	0.003	USRDS	14 (2000-2013)
Effective Treatment	Dialysis patients who were registered on a waiting list for transplantation	-0.13	0.001	0.244	USRDS	17 (2000-2016)
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-0.24	0.033	0.943	MEPS	8 (2009-2016)
Effective Treatment	Breast cancer deaths per 100,000 female population per year	-0.91	0.002	0	NVSS_M	17 (2000-2016)
Effective Treatment	Short-stay home health patients who had diabetic foot care and patient education	-10.07	0.047	0.15	OASIS	4 (2013-2016)
Healthy Living	Adults with obesity who ever received advice from a health professional to exercise more	1.66	0.013	0.249	MEPS	9 (2008-2016)
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	0.29	0.006	0.643	NHIS	14 (2004-2017)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Healthy Living	Adults who had a preventive dental service in the calendar year	0.28	0.003	0.301	MEPS	15 (2002-2016)
Healthy Living	Breast cancer diagnosed at advanced stage (regional, distant stage, or local stage with tumor greater than 2 cm) per 100,000 women age 40 and over	0.25	0.001	0.121	NPCR_USCS	16 (2000-2015)
Healthy Living	Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	0.23	0.01	0.83	MEPS	14 (2003-2016)
Healthy Living	Live-born infants with low birth weight (less than 2,500 g)	0.14	0.002	0.365	NVSS_N	11 (2007-2017)
Healthy Living	Adults with a dental visit in the calendar year	0.08	0.002	0.717	MEPS	15 (2002-2016)
Healthy Living	Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	-0.45	0.017	0.795	NIS	16 (2001-2016)
Healthy Living	Women ages 21-65 who received a Pap smear in the last 3 years	-0.48	0.007	0.555	NHIS	16 (2000-2015)
Healthy Living	Infants born in the calendar year who received breastfeeding through 3 months	-0.95	0.018	0.625	NIS	7 (2009-2015)
Healthy Living	Women ages 50-74 who received a mammogram in the last 2 years	-1.24	0.016	0.467	NHIS	16 (2000-2015)
Healthy Living	Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-1.3	0.009	0.169	NVSS_L	14 (2003-2016)
Healthy Living	Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	-2.35	0.016	0.163	NIS	16 (2001-2016)
Healthy Living	Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-2.4	0.029	0.463	NHIS	15 (2003-2017)
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	-2.56	0.043	0.577	NHIS	7 (2011-2017)
Healthy Living	Adolescents females ages 13-15 who received 3 or more doses human papillomavirus vaccine	-2.68	0.02	0.315	NIS_TEEN	6 (2009-2014)
Patient Safety	Adults who reported that home health providers talked with them about when to take medicines in the last 2 months of care	0.51	0.002	0.04	HCAHPS	6 (2012-2017)

Appendix A: List of Measures and Summary of Results for Figures

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Patient Safety	Adults who reported that home health providers talked with them about the purpose for taking their new or changed prescription medicines in the last 2 months of care	0.47	0.002	0.08	HHCAHPS	6 (2012-2017)
Patient Safety	Adults home health patients age 18 and over who reported that home health providers talked with them about the side effects of medicines in the last 2 months of care	0.45	0.002	0.117	HHCAHPS	6 (2012-2017)
Patient Safety	Adults who reported a home health provider talking with them about all the prescription and over-the-counter medicines they were taking when they first started getting home health care	0.17	0.006	0.78	HHCAHPS	6 (2012-2017)
Patient Safety	Adults who reported a home health provider talking with them about how to set up their home so they can move around safely when they first started getting home health care	-0.59	0.003	0.115	HHCAHPS	6 (2012-2017)
Patient Safety	Hospital patients who received a hypoglycemic agent who had an adverse drug events with hypoglycemic agents	-2.77	0.035	0.472	MPSMS	7 (2010-2016)
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	0.76	0.008	0.411	MEPS	6 (2011-2016)
Person-Centered Care	Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care	0.46	0.005	0.41	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported getting the help or advice they needed when they contacted their home health providers in the last 2 months of care	0.35	0.003	0.243	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-0.52	0.007	0.497	MEPS	6 (2011-2016)
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-0.8	0.015	0.618	MEPS	6 (2011-2016)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Person-Centered Care	Adults who reported being told what care and services they would get when they first started getting home health care	-1.18	0.006	0.121	HHCAHPS	6 (2012-2017)

Worsening for Asians

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Affordable Care	People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	1.64	0.008	0.057	MEPS	15 (2002-2016)
Care Coordination	Home health care patients who had an emergency department visit without a hospitalization	6.01	0.01	0.028	OASIS	4 (2013-2016)
Care Coordination	Home health care patients who had an emergency department visit and then hospitalized	2.99	0.008	0.062	OASIS	4 (2013-2016)
Effective Treatment	Suicide deaths among persons age 12 and over per 100,000 population	1.59	0.005	0.02	NVSS_M	9 (2008-2016)
Healthy Living	Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	3.47	0.011	0.018	MEPS	9 (2008-2016)
Patient Safety	Adults who reported a home health provider asking to see all the prescription and over-the-counter medicines they were taking, when they first started getting home health care	2.26	0.003	0.002	HHCAHPS	6 (2012-2017)

Measures Included in Figure 74: Number and percentage of quality measures with disparity at baseline for which disparities related to race and ethnicity were improving, not changing, or worsening, total for Asians and by priority area, 2000 through 2013, 2015, 2016, or 2017

Priority Area	Disparities Between Asians and Whites Improving	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Effective Treatment	People age 13 and over living with HIV who know their serostatus	-0.349	-1.957	HIV_AIDSSS	2010-2015
Healthy Living	Hospital patients who received pneumococcal immunization	0.76	-2.83	QIO	2012-2015

Priority Area	Disparities Between Asians and Whites Not Changing	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Care Coordination	Adults who reported that home health providers always seem informed and up-to-date about all the cares or treatments they got at home in the last 2 months of care	-0.331	-0.56	HHCAHPS	2012-2017
Care Coordination	People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-0.399	-0.297	MEPS	2002-2016
Effective Treatment	Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure	0.732	0.251	USRDS	2000-2013
Effective Treatment	Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population	0.266	1.121	USRDS	2001-2016
Healthy Living	Hospital patients who received influenza vaccination	-1.29	-2.59	QIO	2012-2016
Healthy Living	Adults age 65 and over who ever received pneumococcal vaccination	-0.7	-1.182	NHIS	2000-2017
Healthy Living	Home health patients who had improvement in upper body dressing	-1.68	-1.18	OASIS	2013-2016
Healthy Living	Children ages 2-17 who had a dental visit in the calendar year	-0.226	-0.796	MEPS	2002-2016
Healthy Living	Children ages 2-17 who had a preventive dental service in the calendar year	-0.277	-0.786	MEPS	2002-2016
Healthy Living	Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-0.429	-0.703	MEPS	2002-2016

Priority Area	Disparities Between Asians and Whites Not Changing	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Healthy Living	Women ages 50-74 who received a mammogram in the last 2 years	0.364	-0.427	NHIS	2000-2015
Healthy Living	Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-0.118	-0.264	NHIS	2003-2017
Healthy Living	Women ages 21-65 who received a Pap smear in the last 3 years	0.481	-0.133	NHIS	2000-2015
Healthy Living	Live-born infants with low birth weight (less than 2,500 g)	-0.01	0.012	NVSS_N	2007-2017
Healthy Living	Adults with a dental visit in the calendar year	0.116	0.056	MEPS	2002-2016
Healthy Living	Adults who had a preventive dental service in the calendar year	0.25	0.174	MEPS	2002-2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-0.429	-0.791	MEPS	2002-2016
Person-Centered Care	Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-0.283	-0.6	MEPS	2002-2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-0.273	-0.537	MEPS	2002-2016
Person-Centered Care	Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care	-0.203	-0.474	HHCAHPS	2012-2017
Person-Centered Care	Adults who reported that home health providers always listen carefully to them in the last 2 months of care	-0.089	-0.469	HHCAHPS	2012-2017
Person-Centered Care	Adults who reported that home health providers always kept them informed about when they would arrive at their home in the last 2 months of care	-0.097	-0.394	HHCAHPS	2012-2017
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-0.225	-0.354	MEPS	2002-2016

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Priority Area	Disparities Between Asians and Whites Not Changing	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-1.034	-0.326	MEPS	2011-2016
Person-Centered Care	Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care	-0.009	-0.317	HHCAHPS	2012-2017
Person-Centered Care	Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care	-0.04	-0.28	HHCAHPS	2012-2017
Person-Centered Care	Adults who reported that home health providers talk about pain in the last 2 months of care	-0.389	-0.22	HHCAHPS	2012-2017
Person-Centered Care	Adults who reported being told what care and services they would get when they first started getting home health care	-0.1	-0.169	HHCAHPS	2012-2017
Person-Centered Care	Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care	0.009	0.043	HHCAHPS	2012-2017

Priority Area	Disparities Between Asians and Whites Worsening	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Patient Safety	Home health care patients whose management of oral medications improved	-3.42	-1.88	OASIS	2013-2016

Measures Included in Figure 77: Number and percentage of quality measures for which American Indians and Alaska Natives experienced better, same, or worse quality of care compared with reference group (White), 2013, 2015, 2016, or 2017

Priority Area	Measures for AI/ANs Better Than Whites	Relative Difference	Z Score	Data Source	Data Years
Effective Treatment	Stroke patients prescribed statin medication at hospital discharge	-40.00	-7.73	QIO	2015
Effective Treatment	Breast cancer deaths per 100,000 female population per year	-38.27	-8.28	NVSS_M	2016
Effective Treatment	Lung cancer deaths per 100,000 population per year	-36.22	-15.70	NVSS_M	2016
Effective Treatment	Adult hemodialysis patients who use arteriovenous fistulas as the primary mode of vascular access	-29.46	-16.30	USRDS	2016
Effective Treatment	Colorectal cancer deaths per 100,000 population per year	-27.74	-6.25	NVSS_M	2016
Effective Treatment	Stroke patients who received venous thromboembolism (VTE) prophylaxis	-24.00	-4.50	QIO	2015
Effective Treatment	Suicide deaths among persons age 12 and over per 100,000 population	-10.87	-2.83	NVSS_M	2016
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	-41.84	-2.58	NHIS	2017
Healthy Living	Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	-40.91	-2.53	NIS_TEEN	2015
Healthy Living	Breast cancer diagnosed at advanced stage (regional, distant stage, or local stage with tumor greater than 2 cm) per 100,000 women age 40 and over	-38.25	-12.40	NPCR_USCS	2015
Healthy Living	Adults ages 18 and over who received influenza vaccination in the last flu season	-18.27	-2.01	NHIS	2017
Healthy Living	Colorectal cancer diagnosed at advanced stage (tumors diagnosed at regional or distant stage) per 100,000 population age 50 and over	-15.67	-3.85	NPCR_USCS	2015
Patient Safety	Adults who reported a home health provider asking to see all the prescription and over-the-counter medicines they were taking, when they first started getting home health care	-33.61	-20.50	HHCAHPS	2017
Person-Centered Care	Adult hospital patients who sometimes or never had good communication about medications they received in the hospital	-17.62	-10.40	HCAHPS	2017

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Priority Area	Measures for AI/ANs Same as Whites	Relative Difference	Z Score	Data Source	Data Years
Affordable Care	People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-16.39	-0.78	MEPS	2016
Care Coordination	People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-8.60	-0.42	MEPS	2016
Care Coordination	Adult hospital patients who did not receive good communication about discharge information	5.94	3.14	HCAHPS	2017
Care Coordination	Home health care patients who had an emergency department visit and then hospitalized	8.81	5.65	OASIS	2016
Effective Treatment	Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-22.87	-1.27	NHIS	2017
Effective Treatment	Adult hemodialysis patients with adequate dialysis - (Kt/V) 12 or higher	-2.78	-1.24	UMKECC	2017
Effective Treatment	People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months	-2.38	-0.88	NSDUH	2015
Effective Treatment	HIV infection deaths per 100,000 population	0.00	0.00	NVSS_M	2016
Effective Treatment	People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months	3.80	0.71	NSDUH	2016
Effective Treatment	Dialysis patients who were registered on a waiting list for transplantation	6.44	5.86	USRDS	2016
Effective Treatment	Adult end stage renal disease (ESRD) patients who saw a nephrologist at least 12 months prior to initiation of renal replacement therapy	7.31	3.00	USRDS	2016
Effective Treatment	Short-stay home health patients who had diabetic foot care and patient education	11.11	1.49	OASIS	2016
Healthy Living	Adults age 65 and over who received an influenza vaccination in the last flu season	-37.01	-0.72	NHIS	2017
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	-16.86	-0.71	NIS_TEEN	2016
Healthy Living	Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-15.16	-1.06	MEPS	2015
Healthy Living	Children ages 6 months to 17 years who received influenza vaccination in the last flu season	-14.76	-0.84	NHIS	2017

Priority Area	Measures for AI/ANs Same as Whites	Relative Difference	Z Score	Data Source	Data Years
Healthy Living	Cervical cancer diagnosed at advanced stage (all invasive tumors) per 100,000 women age 20 and over	-14.29	-1.86	NPCR_USCS	2015
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-5.95	-0.70	NHIS	2017
Healthy Living	Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	-5.33	-0.19	NIS	2015
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-1.69	-0.05	NIS_TEEN	2016
Healthy Living	Home health care patients who stayed at home after an episode of home health care	7.04	6.65	OASIS	2016
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	10.89	0.79	MEPS	2015
Healthy Living	Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	11.32	0.36	NIS	2016
Healthy Living	Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	12.50	0.42	NHIS	2017
Healthy Living	Adults who received a blood cholesterol measurement in the last 5 years	14.96	0.93	NHIS	2017
Healthy Living	Children ages 2-17 who had a dental visit in the calendar year	16.48	0.81	MEPS	2015
Healthy Living	Infants born in the calendar year who received breastfeeding through 3 months	17.87	1.34	NIS	2015
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	18.41	1.06	MEPS	2015
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	19.37	1.19	MEPS	2015
Healthy Living	Children ages 0-17 with wellness checkup in the past 12 months	22.08	0.65	NHIS	2017
Healthy Living	Children ages 2-17 who had a preventive dental service in the calendar year	26.80	1.35	MEPS	2015
Healthy Living	Children ages 19-35 months who received 1 or more doses of varicella vaccine	34.38	0.67	NIS	2016

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Priority Area	Measures for AI/ANs Same as Whites	Relative Difference	Z Score	Data Source	Data Years
Healthy Living	Children ages 19-35 months who received 3 or more doses of polio vaccine	58.06	1.37	NIS	2015
Healthy Living	Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	103.85	1.64	NIS	2015
Healthy Living	Children who had their height and weight measured by a health provider within the past 2 years	109.52	1.04	MEPS	2016
Patient Safety	Adults who reported that home health providers talked with them about when to take medicines in the last 2 months of care	-4.92	-6.99	HHCAHPS	2017
Patient Safety	Adults home health patients age 18 and over who reported that home health providers talked with them about the side effects of medicines in the last 2 months of care	-4.78	-7.19	HHCAHPS	2017
Patient Safety	Adults who reported that home health providers talked with them about the purpose for taking their new or changed prescription medicines in the last 2 months of care	-3.37	-4.60	HHCAHPS	2017
Patient Safety	Adults who reported a home health provider talking with them about all the prescription and over-the-counter medicines they were taking when they first started getting home health care	0.00	0.00	HHCAHPS	2017
Patient Safety	Home health care patients whose management of oral medications improved	4.85	3.60	OASIS	2016
Patient Safety	Adults who reported a home health provider talking with them about how to set up their home so they can move around safely when they first started getting home health care	9.05	4.20	HHCAHPS	2017
Person-Centered Care	Adults who reported getting the help or advice they needed when they contacted their home health provider in the last 2 months of care	-5.46	-8.19	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers talk about pain in the last 2 months of care	-0.98	-0.33	HHCAHPS	2017
Person-Centered Care	Family caregivers who would definitely recommend this hospice to their friends and family	0.66	0.10	HOSPICE_CAH PS	2017
Person-Centered Care	Hospice patients who always received enough helps for pain, sadness, breathing, or constipations from hospice care team	2.78	0.70	HOSPICE_CAH PS	2017

Priority Area	Measures for AI/ANs Same as Whites	Relative Difference	Z Score	Data Source	Data Years
Person-Centered Care	Hospice patients whose hospice care team always communicated well with their family caregivers about taking care them	2.96	0.74	HOSPICE_CAH PS	2017
Person-Centered Care	Family members who definitely received trainings about taking care their family member from hospice care team	4.03	0.91	HOSPICE_CAH PS	2017
Person-Centered Care	Hospice patients and family caregivers who always got help as soon as they need from hospice care team	6.22	1.27	HOSPICE_CAH PS	2017
Person-Centered Care	Family caregivers who rated the hospice care for their family member best (9-10) on a scale of 0-10 (where 0 is the worst and 10 is the best)	9.14	1.63	HOSPICE_CAH PS	2017
Person-Centered Care	People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	20.00	0.65	MEPS	2015

Priority Area	Measures for AI/ANs Worse Than Whites	Relative Difference	Z Score	Data Source	Data Years
Care Coordination	Home health care patients who had an emergency department visit without a hospitalization	38.46	7.46	OASIS	2016
Care Coordination	Adult hospital patients who strongly disagree or disagree that staff took their preferences and those of their family and caregiver into account when deciding what the patient's discharge healthcare would be	36.74	11.60	HCAHPS	2017
Care Coordination	Home health patients who had timely initiation of care	25.76	8.46	OASIS	2016
Care Coordination	Home health care patients who had to be admitted to the hospital	10.83	8.65	OASIS	2016
Care Coordination	Adults who reported that home health providers always seem informed and up-to-date about all the cares or treatments they got at home in the last 2 months of care	10.29	7.19	HHCAHPS	2017
Effective Treatment	Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population	97.31	14.07	USRDS	2016
Effective Treatment	Patients with tuberculosis who completed a curative course of treatment within 1 year of initiation of treatment	82.41	2.31	NTBSS	2015
Effective Treatment	Stroke patients with educational material addressing activation of emergency medical system, follow-up after discharge, educations prescribed at discharge, risk factors for stroke, warning signs and symptoms of stroke	72.22	4.47	QIO	2015

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Priority Area	Measures for AI/ANs Worse Than Whites	Relative Difference	Z Score	Data Source	Data Years
Effective Treatment	Acute stroke patients for whom IV thrombolytic therapy was initiated at hospital within 3 hours of time last known well	71.30	2.34	QIO	2016
Effective Treatment	New HIV cases per 100,000 population age 13 and over	67.21	5.80	HIV_AIDSSS	2015
Effective Treatment	People age 13 and over living with HIV who know their serostatus	57.14	9.62	HIV_AIDSSS	2015
Effective Treatment	People age 13 and over living with diagnosed HIV whose most recent viral load in the last 12 months was under 200 copies/mL	23.35	6.48	HIV_AIDSSS	2015
Effective Treatment	People age 13 and over living with diagnosed HIV who had at least two CD4 or viral load tests performed at least 3 months apart during the last year, among reporting jurisdictions	14.81	5.07	HIV_AIDSSS	2015
Effective Treatment	Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure	10.65	10.91	USRDS	2013
Healthy Living	Hospital patients who received influenza vaccination	196.61	38.58	QIO	2016
Healthy Living	Infant mortality per 1,000 live births, birth weight 2,500 grams or more	136.84	8.65	NVSS_L	2016
Healthy Living	Adults age 65 and over who ever received pneumococcal vaccination	74.56	2.27	NHIS	2017
Healthy Living	Women ages 50-74 who received a mammogram in the last 2 years	66.31	2.29	NHIS	2015
Healthy Living	Women ages 21-65 who received a Pap smear in the last 3 years	61.08	2.01	NHIS	2015
Healthy Living	Hospital patients who received pneumococcal immunization	43.10	9.87	QIO	2015
Healthy Living	Adults who had a preventive dental service in the calendar year	38.91	6.33	MEPS	2016
Healthy Living	Adults with a dental visit in the calendar year	29.02	5.85	MEPS	2016
Healthy Living	Adolescent males ages 13-15 who received 3 or more doses of human papillomavirus (HPV) vaccine	23.04	3.85	NIS_TEEN	2016
Healthy Living	Live-born infants with low birth weight (less than 2,500 g)	18.31	12.75	NVSS_N	2017
Healthy Living	Home health care patients whose ability to walk or move around improved	17.30	12.48	OASIS	2016
Healthy Living	Home health care patients whose pain when moving around decreased	16.41	10.74	OASIS	2016

Priority Area	Measures for AI/ANs Worse Than Whites	Relative Difference	Z Score	Data Source	Data Years
Healthy Living	Home health care patients whose bathing improved	11.20	7.24	OASIS	2016
Healthy Living	Home health care patients whose ability to get in and out of bed improved	11.18	8.74	OASIS	2016
Healthy Living	Home health patients who had improvement in upper body dressing	10.80	6.74	OASIS	2016
Healthy Living	Home health care patients whose shortness of breath decreased	10.74	5.80	OASIS	2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	297.92	2.67	MEPS	2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	229.41	2.91	MEPS	2016
Person-Centered Care	Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	172.34	2.28	MEPS	2016
Person-Centered Care	Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care	67.24	12.97	HHCAHPS	2017
Person-Centered Care	Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care	55.56	11.64	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care	43.96	9.99	HHCAHPS	2017
Person-Centered Care	Family caregivers who received right amount of emotional and spiritual supports from hospice care team	30.48	4.57	HOSPICE_CAHPS	2017
Person-Centered Care	Adults who reported that home health providers always listen carefully to them in the last 2 months of care	19.61	7.49	HHCAHPS	2017
Person-Centered Care	Hospice patients whose hospice care team always treated them with dignity and respect, and really cared about them	18.81	2.37	HOSPICE_CAHPS	2017
Person-Centered Care	Adults who reported being told what care and services they would get when they first started getting home health care	17.59	4.74	HHCAHPS	2017

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Priority Area	Measures for AI/ANs Worse Than Whites	Relative Difference	Z Score	Data Source	Data Years
Person-Centered Care	Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care	17.39	6.99	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers always kept them informed about when they would arrive at their home in the last 2 months of care	14.36	5.80	HHCAHPS	2017

Measures included in Figure 81: Number and percentage of all quality measures that were improving, not changing, or worsening, total for American Indians and Alaska Natives and by priority area, from 2000 through 2013, 2014, 2015, 2016, or 2017

Improving for AI/ANs

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Care Coordination	Adult hospital patients who did not receive good communication about discharge information	-5.76	0.005	0	HCAHPS	9 (2009-2017)
Effective Treatment	Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-16.74	0.032	0	NCDB	10 (2005-2014)
Effective Treatment	Short-stay home health patients who had diabetic foot care and patient education	-13.14	0.013	0.008	OASIS	4 (2013-2016)
Effective Treatment	HIV infection deaths per 100,000 population	-5.9	0.008	0	NVSS_M	17 (2000-2016)
Effective Treatment	Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-5.78	0.03	0.085	NCDB	10 (2005-2014)
Effective Treatment	Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-5.76	0.024	0.055	NHIS	9 (2009-2017)
Effective Treatment	Persons age 13 and over living with HIV who know their serostatus	-4.76	0.003	0	HIV_AIDSSS	6 (2010-2015)
Effective Treatment	Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population	-4.22	0.002	0	USRDS	16 (2001-2016)
Effective Treatment	Adult hemodialysis patients who use arteriovenous fistulas as the primary mode of vascular access	-3.7	0.011	0.04	USRDS	5 (2012-2016)
Effective Treatment	Lung cancer deaths per 100,000 population per year	-1.69	0.004	0	NVSS_M	17 (2000-2016)
Effective Treatment	Breast cancer deaths per 100,000 female population per year	-1.52	0.005	0.007	NVSS_M	17 (2000-2016)
Effective Treatment	Colorectal cancer deaths per 100,000 population per year	-1.17	0.004	0.009	NVSS_M	17 (2000-2016)

Appendix A: List of Measures and Summary of Results for Figures

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Effective Treatment	Adult end stage renal disease (ESRD) patients who saw a nephrologist at least 12 months prior to initiation of renal replacement therapy	-1.09	0.002	0.001	USRDS	12 (2005-2016)
Healthy Living	Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-24.34	0.123	0.073	NIS_TEEN	7 (2008-2014)
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-22.09	0.059	0.006	NIS_TEEN	9 (2008-2016)
Healthy Living	Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	-20.89	0.042	0.003	NIS_TEEN	8 (2008-2015)
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	-14.46	0.018	0.003	NIS_TEEN	9 (2008-2016)
Healthy Living	Home health care patients whose shortness of breath decreased	-8.79	0.02	0.045	OASIS	4 (2013-2016)
Healthy Living	Home health care patients whose ability to get in and out of bed improved	-8.53	0.024	0.065	OASIS	4 (2013-2016)
Healthy Living	Home health care patients whose ability to walk or move around improved	-8.4	0.021	0.051	OASIS	4 (2013-2016)
Healthy Living	Home health care patients whose bathing improved	-7.85	0.018	0.046	OASIS	4 (2013-2016)
Healthy Living	Home health patients who had improvement in upper body dressing	-6.78	0.021	0.081	OASIS	4 (2013-2016)
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	-6.35	0.03	0.07	NHIS	8 (2010-2017)
Healthy Living	Children ages 19-35 months who received 1 or more doses of varicella vaccine	-6.15	0.022	0.011	NIS	16 (2001-2016)
Healthy Living	Children ages 0-17 with wellness checkup in the past 12 months	-5.19	0.023	0.057	NHIS	9 (2009-2017)
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-4.6	0.009	0.015	MEPS	14 (2002-2015)
Healthy Living	Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	-4.53	0.026	0.1	NIS	15 (2001-2015)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Healthy Living	Adults ages 18 and over who received influenza vaccination in the last flu season	-4.49	0.009	0.002	NHIS	8 (2010-2017)
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-3.34	0.01	0.047	MEPS	14 (2002-2015)
Healthy Living	Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-2.43	0.007	0.017	MEPS	14 (2002-2015)
Healthy Living	Colorectal cancer diagnosed at advanced stage (tumors diagnosed at regional or distant stage) per 100,000 population age 50 and over	-2.2	0.003	0	NPCR_USCS	16 (2000-2015)
Healthy Living	Home health care patients who stayed at home after an episode of home health care	-1.59	0.002	0.014	OASIS	4 (2013-2016)
Healthy Living	Cervical cancer diagnosed at advanced stage (all invasive tumors) per 100,000 women age 20 and over	-1.08	0.004	0.023	NPCR_USCS	16 (2000-2015)
Patient Safety	Home health care patients whose management of oral medications improved	-7.88	0.014	0.028	OASIS	4 (2013-2016)
Patient Safety	Adults who reported a home health provider talking with them about how to set up their home so they can move around safely when they first started getting home health care	-1.22	0.002	0.006	HCAHPS	6 (2012-2017)
Person-Centered Care	Adult hospital patients who sometimes or never had good communication about medications they received in the hospital	-3.99	0.011	0.009	HCAHPS	9 (2009-2017)
Person-Centered Care	Adults who reported that home health providers talk about pain in the last 2 months of care	-2.73	0.007	0.016	HCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported being told what care and services they would get when they first started getting home health care	-2.42	0.006	0.017	HCAHPS	6 (2012-2017)

Not Changing for AI/ANs

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Affordable Care	People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-0.99	0.015	0.524	MEPS	15 (2002-2016)
Care Coordination	Home health care patients who had an emergency department visit and then hospitalized	3.36	0.013	0.125	OASIS	4 (2013-2016)
Care Coordination	People with a usual source of care who usually asks about prescription medications and treatments from other doctors	0.35	0.015	0.815	MEPS	15 (2002-2016)
Care Coordination	Adults who reported that home health providers always seem informed and up-to-date about all the cares or treatments they got at home in the last 2 months of care	-0.56	0.002	0.025	HHCAHPS	6 (2012-2017)
Care Coordination	Home health care patients who had to be admitted to the hospital	-1.11	0.005	0.176	OASIS	4 (2013-2016)
Care Coordination	Adult hospital patients who strongly disagree or disagree that staff took their preferences and those of their family and caregiver into account when deciding what the patients discharge health care would be	-1.64	0.009	0.207	HCAHPS	4 (2014-2017)
Care Coordination	Home health patients who had timely initiation of care	-8.24	0.032	0.115	OASIS	4 (2013-2016)
Effective Treatment	New HIV cases per 100,000 population age 13 and over	2.35	0.013	0.113	HIV_AIDSSS	8 (2008-2015)
Effective Treatment	Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure	0.5	0.001	0.001	USRDS	14 (2000-2013)
Effective Treatment	Dialysis patients who were registered on a waiting list for transplantation	-0.01	0.001	0.924	USRDS	17 (2000-2016)
Effective Treatment	Patients with tuberculosis who completed a curative course of treatment within 1 year of initiation of treatment	-1.32	0.061	0.836	NTBSS	8 (2008-2015)
Effective Treatment	Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy)	-3.62	0.04	0.385	NCDB	10 (2005-2014)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Effective Treatment	Acute stroke patients for whom IV thrombolytic therapy was initiated at hospital within 3 hours of time last known well	-15.61	0.088	0.192	QIO	4 (2013-2016)
Healthy Living	Hospital patients who received pneumococcal immunization	1.43	0.084	0.88	QIO	4 (2012-2015)
Healthy Living	Live-born infants with low birth weight (less than 2,500 g)	0.74	0.003	0.024	NVSS_N	11 (2007-2017)
Healthy Living	Women ages 21-65 who received a Pap smear in the last 3 years	0.39	0.018	0.841	NHIS	16 (2000-2015)
Healthy Living	Adults who had a preventive dental service in the calendar year	-0.12	0.004	0.768	MEPS	15 (2002-2016)
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-0.23	0.004	0.587	MEPS	8 (2008-2015)
Healthy Living	Breast cancer diagnosed at advanced stage (regional, distant stage, or local stage with tumor greater than 2 cm) per 100,000 women age 40 and over	-0.3	0.004	0.465	NPCR_USCS	16 (2000-2015)
Healthy Living	Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-0.32	0.024	0.902	NHIS	15 (2003-2017)
Healthy Living	Adults with a dental visit in the calendar year	-0.34	0.002	0.144	MEPS	15 (2002-2016)
Healthy Living	Children ages 6 months to 17 years who received influenza vaccination in the last flu season	-0.36	0.043	0.937	NHIS	8 (2010-2017)
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-0.58	0.007	0.449	NHIS	14 (2004-2017)
Healthy Living	Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	-0.67	0.022	0.771	NIS	15 (2001-2015)
Healthy Living	Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	-0.73	0.013	0.566	NIS	16 (2001-2016)
Healthy Living	Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.94	0.004	0.044	NVSS_L	16 (2001-2016)

Appendix A: List of Measures and Summary of Results for Figures

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Healthy Living	Children ages 2-17 who had a preventive dental service in the calendar year	-1.05	0.021	0.652	MEPS	14 (2002-2015)
Healthy Living	Children ages 2-17 who had a dental visit in the calendar year	-1.75	0.022	0.476	MEPS	14 (2002-2015)
Healthy Living	Adults age 65 and over who ever received pneumococcal vaccination	-2.15	0.014	0.172	NHIS	14 (2004-2017)
Healthy Living	Infants born in the calendar year who received breastfeeding through 3 months	-2.48	0.03	0.44	NIS	7 (2009-2015)
Healthy Living	Children ages 19-35 months who received 3 or more doses of polio vaccine	-3.73	0.025	0.146	NIS	15 (2001-2015)
Healthy Living	Adults who received a blood cholesterol measurement in the last 5 years	-5.24	0.02	0.118	NHIS	15 (2003-2017)
Healthy Living	Children who had their height and weight measured by a health provider within the past 2 years	-6.62	0.049	0.202	MEPS	15 (2002-2016)
Healthy Living	Home health care patients whose pain when moving around decreased	-6.82	0.025	0.105	OASIS	4 (2013-2016)
Healthy Living	Hospital patients who received influenza vaccination	-6.96	0.052	0.26	QIO	5 (2012-2016)
Healthy Living	Adults age 65 and over who received an influenza vaccination in the last flu season	-45.17	0.499	0.282	NHIS	7 (2011-2017)
Patient Safety	Adults who reported that home health providers talked with them about when to take medicines in the last 2 months of care	0.95	0.002	0.009	HHCAHPS	6 (2012-2017)
Patient Safety	Adults who reported that home health providers talked with them about the purpose for taking their new or changed prescription medicines in the last 2 months of care	0.78	0.002	0.019	HHCAHPS	6 (2012-2017)
Patient Safety	Adults home health patients age 18 and over who reported that home health providers talked with them about the side effects of medicines in the last 2 months of care	0.76	0.001	0.007	HHCAHPS	6 (2012-2017)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Patient Safety	Adults who reported a home health provider talking with them about all the prescription and over-the-counter medicines they were taking when they first started getting home health care	0.3	0.008	0.733	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	1.37	0.028	0.65	MEPS	15 (2002-2016)
Person-Centered Care	Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	0.83	0.009	0.393	MEPS	15 (2002-2016)
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	0.53	0.052	0.928	MEPS	12 (2002-2013)
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	0.34	0.028	0.915	MEPS	15 (2002-2016)
Person-Centered Care	Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care	-0.09	0.023	0.97	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care	-0.21	0.009	0.83	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported that home health providers always listen carefully to them in the last 2 months of care	-0.55	0.015	0.732	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care	-0.91	0.031	0.779	HHCAHPS	6 (2012-2017)
Person-Centered Care	People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-0.99	0.016	0.545	MEPS	14 (2002-2015)
Person-Centered Care	Adults who reported that home health providers always kept them informed about when they would arrive at their home in the last 2 months of care	-1.3	0.012	0.331	HHCAHPS	6 (2012-2017)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Person-Centered Care	Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care	-2.01	0.014	0.229	HHCAHPS	6 (2012-2017)

Worsening for AI/ANs

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Care Coordination	Home health care patients who had an emergency department visit without a hospitalization	2.84	0.008	0.081	OASIS	4 (2013-2016)
Effective Treatment	Suicide deaths among persons age 12 and over per 100,000 population	3.39	0.006	0.001	NVSS_M	9 (2008-2016)
Patient Safety	Adults who reported a home health provider asking to see all the prescription and over-the-counter medicines they were taking, when they first started getting home health care	3	0.007	0.016	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported getting the help or advice they needed when they contacted their home health providers in the last 2 months of care	1.73	0.003	0.003	HHCAHPS	6 (2012-2017)

Measures Included in Figure 82: Number and percentage of quality measures with disparity at baseline for which disparities related to race and ethnicity were improving, not changing, or worsening, total for American Indians and Alaska Natives and by priority area, 2000 through 2013, 2015, 2016, or 2017

Priority Area	Disparities Between AI/ANs and Whites Improving	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Effective Treatment	Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population	0.266	-16.377	USRDS	2001-2016
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-1.185	-2.527	MEPS	2002-2015

Priority Area	Disparities Between AI/ANs and Whites Not Changing	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Care Coordination	Home health patients who had timely initiation of care	-0.78	-0.82	OASIS	2013-2016
Care Coordination	Adult hospital patients who did not receive good communication about discharge information	-0.695	-0.815	HCAHPS	2009-2017
Care Coordination	Home health care patients who had to be admitted to the hospital	-0.14	-0.3	OASIS	2013-2016
Care Coordination	Home health care patients who had an emergency department visit without a hospitalization	0.07	0.16	OASIS	2013-2016
Effective Treatment	People age 13 and over living with HIV who know their serostatus	-0.349	-1.029	HIV_AIDSSS	2010-2015
Effective Treatment	Short-stay home health patients who had diabetic foot care and patient education	-0.39	-0.52	OASIS	2013-2016
Effective Treatment	Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure	0.732	0.451	USRDS	2000-2013
Healthy Living	Home health care patients whose ability to walk or move around improved	-3.42	-3.41	OASIS	2013-2016
Healthy Living	Home health care patients whose shortness of breath decreased	-2.75	-3.19	OASIS	2013-2016
Healthy Living	Home health care patients whose bathing improved	-2.44	-2.68	OASIS	2013-2016

Priority Area	Disparities Between AI/ANs and Whites Not Changing	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Healthy Living	Home health care patients whose pain when moving around decreased	-2.54	-2.42	OASIS	2013-2016
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-1.331	-2.37	MEPS	2002-2015
Healthy Living	Home health patients who had improvement in upper body dressing	-1.68	-2.18	OASIS	2013-2016
Healthy Living	Infants born in the calendar year who received breastfeeding through 3 months	-2.389	-1.557	NIS	2009-2015
Healthy Living	Hospital patients who received influenza vaccination	-1.29	-1.42	QIO	2012-2016
Healthy Living	Home health care patients who stayed at home after an episode of home health care	-0.16	-0.5	OASIS	2013-2016
Healthy Living	Adults with a dental visit in the calendar year	0.116	-0.274	MEPS	2002-2016
Healthy Living	Adults who had a preventive dental service in the calendar year	0.25	-0.079	MEPS	2002-2016
Healthy Living	Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.023	-0.043	NVSS_L	2001-2016
Healthy Living	Hospital patients who received pneumococcal immunization	0.76	0.19	QIO	2012-2015
Person-Centered Care	Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care	-0.203	-0.403	HHCAHPS	2012-2017
Person-Centered Care	Adults who reported being told what care and services they would get when they first started getting home health care	-0.1	-0.331	HHCAHPS	2012-2017
Person-Centered Care	Adults who reported that home health providers always kept them informed about when they would arrive at their home in the last 2 months of care	-0.097	-0.311	HHCAHPS	2012-2017
Person-Centered Care	Adults who reported that home health providers always listen carefully to them in the last 2 months of care	-0.089	-0.106	HHCAHPS	2012-2017

Priority Area	Disparities Between AI/ANs and Whites Not Changing	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Person-Centered Care	Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care	-0.04	-0.097	HHCAPHS	2012-2017
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-0.241	-0.056	MEPS	2002-2013
Person-Centered Care	Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care	0.009	-0.023	HHCAPHS	2012-2017
Person-Centered Care	Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care	-0.009	-0.02	HHCAPHS	2012-2017
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-0.273	0.064	MEPS	2002-2016
Person-Centered Care	Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-0.283	0.199	MEPS	2002-2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-0.429	0.309	MEPS	2002-2016

Priority Area	Disparities Between AI/ANs and Whites Worsening	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
None					

Measures Included in Figure 84: Number and percentage of quality measures for which Native Hawaiians/ Pacific Islanders experienced better, same, or worse quality of care compared with reference group (White), 2015, 2016, or 2017

Priority Area	Measures for NHPs Better Than Whites	Relative Difference	Z Score	Data Source	Data Year
Care Coordination	Home health care patients who had an emergency department visit and then hospitalized	-22.28	-10.70	OASIS	2016
Care Coordination	Home health care patients who had to be admitted to the hospital	-20.00	-12.00	OASIS	2016
Effective Treatment	Stroke patients prescribed statin medication at hospital discharge	-53.33	-3.79	QIO	2015
Effective Treatment	Short-stay home health patients who had diabetic foot care and patient education	-18.52	-2.49	OASIS	2016
Healthy Living	Hospital patients who received pneumococcal immunization	-62.07	-9.18	QIO	2015
Healthy Living	Home health care patients who stayed at home after an episode of home health care	-21.48	-15.20	OASIS	2016
Patient Safety	Adults who reported a home health provider asking to see all the prescription and over-the-counter medicines they were taking, when they first started getting home health care	-34.84	-10.60	HHCAHPS	2017
Person-Centered Care	Adult hospital patients who sometimes or never had good communication about medications they received in the hospital	-20.59	-7.16	HCAHPS	2017

Priority Area	Measures for NHPs Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Care Coordination	Adult hospital patients who did not receive good communication about discharge information	4.95	1.51	HCAHPS	2017
Effective Treatment	Patients with tuberculosis who completed a curative course of treatment within 1 year of initiation of treatment	-39.81	-1.55	NTBSS	2015
Effective Treatment	Acute stroke patients for whom IV thrombolytic therapy was initiated at hospital within 3 hours of time last known well	-4.35	-0.13	QIO	2016
Effective Treatment	Stroke patients who received venous thromboembolism (VTE) prophylaxis	24.00	1.17	QIO	2015

Priority Area	Measures for NHPs Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Effective Treatment	Stroke patients with educational material addressing activation of emergency medical system, follow-up after discharge, educations prescribed at discharge, risk factors for stroke, warning signs and symptoms of stroke	33.33	1.80	QIO	2015
Healthy Living	Children ages 19-35 months who received 3 or more doses of polio vaccine	-34.18	-1.09	NIS	2016
Healthy Living	Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	-26.67	-0.78	NIS	2015
Healthy Living	Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	-22.45	-0.85	NIS	2015
Healthy Living	Children ages 19-35 months who received 1 or more doses of varicella vaccine	-15.63	-0.43	NIS	2016
Healthy Living	Home health care patients whose pain when moving around decreased	-3.82	-1.67	OASIS	2016
Healthy Living	Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	-1.16	-0.03	NIS	2016
Healthy Living	Home health care patients whose shortness of breath decreased	1.48	0.57	OASIS	2016
Healthy Living	Home health care patients whose ability to get in and out of bed improved	9.27	4.83	OASIS	2016
Healthy Living	Infants born in the calendar year who received breastfeeding through 3 months	16.38	0.90	NIS	2015
Healthy Living	Adults who received a blood cholesterol measurement in the last 5 years	23.62	0.79	NHIS	2017
Patient Safety	Adults who reported that home health providers talked with them about when to take medicines in the last 2 months of care	-4.92	-3.50	HHCAHPS	2017
Patient Safety	Adults home health patients age 18 and over who reported that home health providers talked with them about the side effects of medicines in the last 2 months of care	-3.72	-2.80	HHCAHPS	2017
Patient Safety	Adults who reported that home health providers talked with them about the purpose for taking their new or changed prescription medicines in the last 2 months of care	-2.05	-1.40	HHCAHPS	2017

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Priority Area	Measures for NHPs Same as Whites	Relative Difference	Z Score	Data Source	Data Year
Patient Safety	Adults who reported a home health provider talking with them about all the prescription and over-the-counter medicines they were taking when they first started getting home health care	4.35	0.87	HHCAHPS	2017
Patient Safety	Adults who reported a home health provider talking with them about how to set up their home so they can move around safely when they first started getting home health care	5.60	1.44	HHCAHPS	2017
Person-Centered Care	Hospice patients and family caregivers who always got help as soon as they need from hospice care team	-11.71	-1.53	HOSPICE_CAHPS	2016
Person-Centered Care	Family caregivers who would definitely recommend this hospice to their friends and family	-8.11	-0.70	HOSPICE_CAHPS	2016
Person-Centered Care	Adults who reported getting the help or advice they needed when they contacted their home health provider in the last 2 months of care	-5.06	-3.80	HHCAHPS	2017
Person-Centered Care	Hospice patients whose hospice care team always communicated well with their family caregivers about taking care them	1.97	0.28	HOSPICE_CAHPS	2017
Person-Centered Care	Family caregivers who rated the hospice care for their family member best (9-10) on a scale of 0-10 (where 0 is the worst and 10 is the best)	2.05	0.22	HOSPICE_CAHPS	2016
Person-Centered Care	Hospice patients whose hospice care team always treated them with dignity and respect, and really cared about them	9.90	0.83	HOSPICE_CAHPS	2017

Priority Area	Measures for NHPs Worse Than White	Relative Difference	Z Score	Data Source	Data Year
Care Coordination	Home health patients who had timely initiation of care	31.82	6.98	OASIS	2016
Care Coordination	Adult hospital patients who strongly disagree or disagree that staff took their preferences and those of their family and caregiver into account when deciding what the patient's discharge healthcare would be	22.20	4.33	HCAHPS	2017
Care Coordination	Home health care patients who had an emergency department visit without a hospitalization	12.82	2.49	OASIS	2016
Care Coordination	Adults who reported that home health providers always seem informed and up-to-date about all the cares or treatments they got at home in the last 2 months of care	11.43	4.00	HHCAHPS	2017

Priority Area	Measures for NHPI Worse Than White	Relative Difference	Z Score	Data Source	Data Year
Effective Treatment	New HIV cases per 100,000 population age 13 and over	191.80	5.84	HIV_AIDSSS	2015
Effective Treatment	People age 13 and over living with HIV who know their serostatus	49.58	4.90	HIV_AIDSSS	2015
Effective Treatment	People age 13 and over living with diagnosed HIV who had at least two CD4 or viral load tests performed at least 3 months apart during the last year, among reporting jurisdictions	22.82	4.94	HIV_AIDSSS	2015
Effective Treatment	People age 13 and over living with diagnosed HIV whose most recent viral load in the last 12 months was under 200 copies/mL	17.37	3.05	HIV_AIDSSS	2015
Healthy Living	Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	219.44	3.43	NHIS	2017
Healthy Living	Hospital patients who received influenza vaccination	44.07	6.49	QIO	2016
Healthy Living	Home health patients who had improvement in upper body dressing	17.20	7.16	OASIS	2016
Healthy Living	Home health care patients whose bathing improved	15.83	6.83	OASIS	2016
Healthy Living	Home health care patients whose ability to walk or move around improved	12.11	5.83	OASIS	2016
Patient Safety	Home health care patients whose management of oral medications improved	14.02	7.43	OASIS	2016
Person-Centered Care	Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care	98.28	8.14	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care	71.43	8.12	HHCAHPS	2017
Person-Centered Care	Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care	69.84	6.28	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers always listen carefully to them in the last 2 months of care	37.25	6.33	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care	35.40	6.33	HHCAHPS	2017
Person-Centered Care	Family caregivers who received right amount of emotional and spiritual supports from hospice care team	33.02	2.69	HOSPICE_CAHP	2016

Appendix A: List of Measures and Summary of Results for Figures

Priority Area	Measures for NHPI Worse Than White	Relative Difference	Z Score	Data Source	Data Year
Person-Centered Care	Adults who reported that home health providers always kept them informed about when they would arrive at their home in the last 2 months of care	21.29	4.78	HHCAHPS	2017
Person-Centered Care	Adults who reported that home health providers talk about pain in the last 2 months of care	17.65	2.57	HHCAHPS	2017
Person-Centered Care	Adults who reported being told what care and services they would get when they first started getting home health care	16.67	2.57	HHCAHPS	2017

Measures included in Figure 88: Number and percentage of all quality measures that were improving, not changing, or worsening, total for Native Hawaiians/Pacific Islanders and by priority area, 2001 through 2012, 2013, 2014, 2015, 2016, or 2017

Improving for NHPis

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Care Coordination	Adult hospital patients who did not receive good communication about discharge information	-5.63	0.006	0	HCAHPS	9 (2009-2017)
Effective Treatment	Acute stroke patients for whom IV thrombolytic therapy was initiated at hospital within 3 hours of time last known well	-25.48	0.024	0.007	QIO	4 (2013-2016)
Effective Treatment	Short-stay home health patients who had diabetic foot care and patient education	-9.31	0.023	0.053	OASIS	4 (2013-2016)
Effective Treatment	Persons age 13 and over living with HIV who know their serostatus	-7.15	0.004	0	HIV_AIDSSS	6 (2010-2015)
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-31.15	0.104	0.037	NIS_TEEN	6 (2008-2013)
Healthy Living	Home health care patients whose ability to walk or move around improved	-8.47	0.016	0.032	OASIS	4 (2013-2016)
Healthy Living	Home health care patients whose pain when moving around decreased	-8.05	0.025	0.078	OASIS	4 (2013-2016)
Healthy Living	Home health care patients whose ability to get in and out of bed improved	-8.04	0.012	0.02	OASIS	4 (2013-2016)
Healthy Living	Home health care patients whose shortness of breath decreased	-5.99	0.015	0.054	OASIS	4 (2013-2016)
Healthy Living	Home health care patients whose bathing improved	-5.96	0.01	0.026	OASIS	4 (2013-2016)
Healthy Living	Home health patients who had improvement in upper body dressing	-5.43	0.011	0.035	OASIS	4 (2013-2016)
Patient Safety	Home health care patients whose management of oral medications improved	-6.69	0.01	0.019	OASIS	4 (2013-2016)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Person-Centered Care	Adult hospital patients who sometimes or never had good communication about medications they received in the hospital	-3.87	0.008	0.002	HCAHPS	9 (2009-2017)
Person-Centered Care	Adults who reported that home health providers talk about pain in the last 2 months of care	-2.52	0.01	0.07	HHCAHPS	6 (2012-2017)

Not Changing for NHPs

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Care Coordination	Home health care patients who had an emergency department visit and then hospitalized	2.35	0.01	0.152	OASIS	4 (2013-2016)
Care Coordination	Adult hospital patients who strongly disagree or disagree that staff took their preferences and those of their family and caregiver into account when deciding what the patients discharge health care would be	1.4	0.017	0.49	HCAHPS	4 (2014-2017)
Care Coordination	People with a usual source of care who usually asks about prescription medications and treatments from other doctors	0.94	0.047	0.856	MEPS	9 (2004-2012)
Care Coordination	Adults who reported that home health providers always seem informed and up-to-date about all the cares or treatments they got at home in the last 2 months of care	-0.4	0.006	0.54	HHCAHPS	6 (2012-2017)
Care Coordination	Home health care patients who had to be admitted to the hospital	-2.04	0.013	0.244	OASIS	4 (2013-2016)
Care Coordination	Home health patients who had timely initiation of care	-8.3	0.034	0.127	OASIS	4 (2013-2016)
Effective Treatment	Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-1.67	0.027	0.547	NCDB	10 (2005-2014)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Effective Treatment	Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy)	-2.16	0.053	0.694	NCDB	10 (2005-2014)
Effective Treatment	New HIV cases per 100,000 population age 13 and over	-2.16	0.031	0.504	HIV_AIDSSS	8 (2008-2015)
Effective Treatment	Patients with tuberculosis who completed a curative course of treatment within 1 year of initiation of treatment	-5.57	0.055	0.335	NTBSS	8 (2008-2015)
Effective Treatment	Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-13.26	0.081	0.128	NCDB	10 (2005-2014)
Healthy Living	Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	1.67	0.063	0.802	NIS	11 (2005-2015)
Healthy Living	Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	-0.62	0.038	0.875	NIS	16 (2001-2016)
Healthy Living	Children ages 19-35 months who received 1 or more doses of varicella vaccine	-1.11	0.072	0.881	NIS	12 (2005-2016)
Healthy Living	Home health care patients who stayed at home after an episode of home health care	-2.34	0.014	0.222	OASIS	4 (2013-2016)
Healthy Living	Children ages 19-35 months who received 3 or more doses of polio vaccine	-3.17	0.039	0.424	NIS	16 (2001-2016)
Healthy Living	Infants born in the calendar year who received breastfeeding through 3 months	-3.27	0.032	0.351	NIS	7 (2009-2015)
Healthy Living	Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	-4.59	0.043	0.309	NIS	15 (2001-2015)
Healthy Living	Hospital patients who received influenza vaccination	-9.29	0.149	0.58	QIO	4 (2013-2016)
Patient Safety	Adults who reported a home health provider talking with them about all the prescription and over-the-counter medicines they were taking when they first started getting home health care	1.52	0.009	0.175	HHCAHPS	6 (2012-2017)

Appendix A: List of Measures and Summary of Results for Figures

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Patient Safety	Adults home health patients age 18 and over who reported that home health providers talked with them about the side effects of medicines in the last 2 months of care	0.84	0.002	0.017	HHCAHPS	6 (2012-2017)
Patient Safety	Adults who reported that home health providers talked with them about the purpose for taking their new or changed prescription medicines in the last 2 months of care	0.82	0.004	0.097	HHCAHPS	6 (2012-2017)
Patient Safety	Adults who reported that home health providers talked with them about when to take medicines in the last 2 months of care	0.74	0.003	0.103	HHCAHPS	6 (2012-2017)
Patient Safety	Adults who reported a home health provider talking with them about how to set up their home so they can move around safely when they first started getting home health care	-1.21	0.006	0.108	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care	2.9	0.014	0.11	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported that home health providers always listen carefully to them in the last 2 months of care	2.74	0.016	0.173	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported that home health providers always kept them informed about when they would arrive at their home in the last 2 months of care	2.53	0.013	0.12	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care	1.65	0.022	0.506	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care	1.55	0.015	0.356	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care	0.94	0.017	0.619	HHCAHPS	6 (2012-2017)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Person-Centered Care	Adults who reported getting the help or advice they needed when they contacted their home health providers in the last 2 months of care	0.74	0.002	0.028	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported being told what care and services they would get when they first started getting home health care	-0.98	0.011	0.411	HHCAHPS	6 (2012-2017)

Worsening for NHPs

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Care Coordination	Home health care patients who had an emergency department visit without a hospitalization	4.79	0.013	0.067	OASIS	4 (2013-2016)
Patient Safety	Adults who reported a home health provider asking to see all the prescription and over-the-counter medicines they were taking, when they first started getting home health care	3.85	0.011	0.03	HHCAHPS	6 (2012-2017)

Measures included in Figure 89: Number and percentage of quality measures with disparity at baseline for which disparities related to race and ethnicity were improving, not changing, or worsening, total for Native Hawaiians/Pacific Islanders and by priority area, 2008 through 2015, 2016, or 2017

Priority Area	Disparities Between NHPs and Whites Improving	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Effective Treatment	People age 13 and over living with HIV who know their serostatus	-0.349	-1.614	HIV_AIDSSS	2010-2015

Priority Area	Disparities Between NHPs and Whites Not Changing	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Care Coordination	Home health patients who had timely initiation of care	-0.78	-0.87	OASIS	2013-2016
Care Coordination	Adult hospital patients who did not receive good communication about discharge information	-0.695	-0.768	HCAHPS	2009-2017
Care Coordination	Adults who reported that home health providers always seem informed and up-to-date about all the cares or treatments they got at home in the last 2 months of care	-0.331	-0.16	HHCAHPS	2012-2017
Effective Treatment	New HIV cases per 100,000 population age 13 and over	-0.2	-0.229	HIV_AIDSSS	2008-2015
Healthy Living	Home health patients who had improvement in upper body dressing	-1.68	-1.78	OASIS	2013-2016
Healthy Living	Hospital patients who received influenza vaccination	-1.29	-0.97	QIO	2013-2016
Person-Centered Care	Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care	0.009	0.091	HHCAHPS	2012-2017
Person-Centered Care	Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care	-0.04	0.177	HHCAHPS	2012-2017
Person-Centered Care	Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care	-0.203	0.317	HHCAHPS	2012-2017
Person-Centered Care	Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care	-0.009	0.42	HHCAHPS	2012-2017

Priority Area	Disparities Between NHPs and Whites Not Changing	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Person-Centered Care	Adults who reported that home health providers always listen carefully to them in the last 2 months of care	-0.089	0.52	HHCAHPS	2012-2017

Priority Area	Disparities Between NHPs and Whites Worsening	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
None					

Measures Included in Figure 91: Number and percentage of quality measures for which Hispanics experienced better, same, or worse quality of care compared with reference group (White), 2013, 2015, 2016, or 2017

Priority Area	Measures for Hispanics Better Than Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Affordable Care	People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-19.79	-3.57	MEPS	2016
Care Coordination	Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over	-56.98	-24.60	HCUP	2016
Care Coordination	Hospital admissions for dehydration per 100,000 population, adults age 18 and over	-52.00	-20.00	HCUP	2016
Care Coordination	Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over	-45.57	-13.90	HCUP	2016
Care Coordination	Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over	-38.59	-11.80	HCUP	2016
Care Coordination	Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17	-27.56	-2.67	HCUP	2016
Care Coordination	Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, adults	-26.50	-17.80	HCUP	2016
Care Coordination	Home health care patients who had an emergency department visit without a hospitalization	-25.64	-35.40	OASIS	2016
Care Coordination	Hospital admissions for short-term complications of diabetes per 100,000 population, adults	-22.98	-6.70	HCUP	2016
Effective Treatment	Suicide deaths among persons age 12 and over per 100,000 population	-60.68	-88.40	NVSS_M	2016
Effective Treatment	Lung cancer deaths per 100,000 population per year	-60.00	-111.00	NVSS_M	2016
Effective Treatment	Hospital admissions for congestive heart failure per 100,000 population	-46.56	-17.10	HCUP	2016
Effective Treatment	Deaths per 1,000 adult hospital admissions with congestive heart failure	-33.64	-13.50	HCUP	2016
Effective Treatment	Breast cancer deaths per 100,000 female population per year	-30.85	-19.60	NVSS_M	2016
Effective Treatment	Short-stay home health patients who had diabetic foot care and patient education	-25.93	-24.70	OASIS	2016
Effective Treatment	Colorectal cancer deaths per 100,000 population per year	-22.14	-13.90	NVSS_M	2016

Priority Area	Measures for Hispanics Better Than Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Effective Treatment	Deaths per 1,000 adult hospital admissions with pneumonia	-17.61	-5.59	HCUP	2016
Effective Treatment	Adult hemodialysis patients who use arteriovenous fistulas as the primary mode of vascular access	-15.25	-26.00	USRDS	2016
Healthy Living	Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-20.00	-14.10	NVSS_L	2016
Healthy Living	Breast cancer diagnosed at advanced stage (regional, distant stage, or local stage with tumor greater than 2 cm) per 100,000 women age 40 and over	-19.57	-17.80	NPCR_USCS	2015
Healthy Living	Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-15.81	-3.81	MEPS	2016
Healthy Living	Children with obesity 2-19 years of age who had been told by a doctor or health professional that they were overweight	-14.14	-2.01	NHANES	2016
Healthy Living	Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-13.48	-3.19	MEPS	2016
Healthy Living	Adolescent males ages 13-15 who received 3 or more doses of human papillomavirus (HPV) vaccine	-13.17	-2.97	NIS_TEEN	2016
Healthy Living	Children ages 6 months to 17 years who received influenza vaccination in the last flu season	-11.15	-2.06	NHIS	2017
Healthy Living	Adolescents females ages 13-15 who received 3 or more doses human papillomavirus vaccine	-10.76	-1.98	NIS_TEEN	2016
Healthy Living	Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-10.43	-3.04	MEPS	2016
Patient Safety	Adult surgery patients with postoperative venous thromboembolic events	-100.00	-4.51	MPSMS	2016
Patient Safety	Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults	-60.00	-2.12	HCUP	2016
Patient Safety	Deaths per 1,000 hospital admissions with expected low-mortality	-41.67	-7.07	HCUP	2016
Patient Safety	Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults	-36.99	-5.40	HCUP	2016

Appendix A: List of Measures and Summary of Results for Figures

Priority Area	Measures for Hispanics Better Than Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Patient Safety	Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-34.23	-2.70	MEPS	2016
Patient Safety	Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	-32.80	-14.40	HCUP	2016
Patient Safety	Obstetric trauma per 1,000 instrument-assisted deliveries	-26.50	-8.75	HCUP	2016
Patient Safety	Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults	-17.39	-2.83	HCUP	2016
Patient Safety	Birth trauma - injury to neonate per 1,000 selected live births	-16.67	-2.83	HCUP	2016
Patient Safety	Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults	-11.04	-2.95	HCUP	2016
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-12.76	-5.26	MEPS	2016
Person-Centered Care	Family members who definitely received trainings about taking care their family member from hospice care team	-12.36	-8.25	HOSPICE_CAHPS	2017

Priority Area	Measures for Hispanics Same as Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Affordable Care	People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	12.12	1.36	MEPS	2016
Care Coordination	Home health care patients who had an emergency department visit and then hospitalized	-4.66	-8.83	OASIS	2016
Care Coordination	Hospital admissions for asthma per 100,000 population, adults ages 18-39	-2.75	-0.44	HCUP	2016
Care Coordination	Hospital admissions for hypertension per 100,000 population, adults age 18 and over	-1.09	-0.21	HCUP	2016
Care Coordination	Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children	3.94	0.99	HCUP	2016
Care Coordination	Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults	6.93	1.32	HCUP	2016

Priority Area	Measures for Hispanics Same as Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Care Coordination	Home health care patients who had to be admitted to the hospital	8.75	20.59	OASIS	2016
Care Coordination	Home health patients who had timely initiation of care	9.09	21.21	OASIS	2016
Care Coordination	People with a usual source of care who usually asks about prescription medications and treatments from other doctors	10.38	1.48	MEPS	2016
Effective Treatment	Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI)	-3.47	-1.26	HCUP	2016
Effective Treatment	Patients with tuberculosis who completed a curative course of treatment within 1 year of initiation of treatment	-2.70	-0.23	NTBSS	2015
Effective Treatment	People age 12 and over treated for substance abuse who completed treatment course	-2.48	-11.60	TEDSD	2016
Effective Treatment	Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over	-2.12	-0.51	HCUP	2016
Effective Treatment	People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months	-1.94	-0.98	NSDUH	2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-1.58	-0.18	MEPS	2016
Effective Treatment	Dialysis patients who were registered on a waiting list for transplantation	0.72	1.66	USRDS	2016
Effective Treatment	Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg	0.85	0.09	NHANES	2016
Effective Treatment	People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months	0.98	0.19	NSDUH	2016
Effective Treatment	People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	1.17	0.36	MEPS	2016
Effective Treatment	People age 13 and over living with diagnosed HIV who had at least two CD4 or viral load tests performed at least 3 months apart during the last year, among reporting jurisdictions	1.70	4.95	HIV_AIDSSS	2015
Effective Treatment	Adults with hypertension with blood pressure less than 140/90 mm/Hg	6.11	2.66	NHANES	2016

Priority Area	Measures for Hispanics Same as Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Effective Treatment	Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure	7.86	18.03	USRDS	2013
Effective Treatment	Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over	9.32	1.29	HCUP	2016
Effective Treatment	Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	12.37	1.40	NHIS	2017
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	16.74	1.00	MEPS	2016
Effective Treatment	Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair	25.63	1.48	HCUP	2016
Effective Treatment	Adults age 40 and over with diabetes whose condition was diagnosed	29.63	1.07	NHANES	2016
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	-17.42	-1.41	NIS_TEEN	2016
Healthy Living	Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	-12.82	-1.21	NIS_TEEN	2016
Healthy Living	Colorectal cancer diagnosed at advanced stage (tumors diagnosed at regional or distant stage) per 100,000 population age 50 and over	-9.46	-7.02	NPCR_USCS	2015
Healthy Living	Adolescents females ages 16-17 who received 3 or more doses human papillomavirus vaccine	-9.43	-1.04	NIS_TEEN	2016
Healthy Living	Adolescent males ages 16-17 who received 3 or more doses of human papillomavirus (HPV) vaccine	-7.17	-1.20	NIS_TEEN	2016
Healthy Living	Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-5.53	-0.91	MEPS	2016
Healthy Living	Children 0-40 lb for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	-4.86	-0.45	MEPS	2016
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-4.57	-1.06	MEPS	2016
Healthy Living	Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-3.74	-0.28	MEPS	2016

Priority Area	Measures for Hispanics Same as Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-3.60	-0.94	MEPS	2016
Healthy Living	Adults with obesity who ever received advice from a health professional to exercise more	-2.11	-0.42	MEPS	2016
Healthy Living	Women ages 50-74 who received a mammogram in the last 2 years	-1.77	-0.22	NHIS	2015
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-0.55	-0.09	MEPS	2016
Healthy Living	Adults who received a blood cholesterol measurement in the last 5 years	1.57	0.22	NHIS	2017
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	2.52	0.85	NHIS	2017
Healthy Living	Home health care patients whose pain when moving around decreased	3.44	8.83	OASIS	2016
Healthy Living	Home health care patients who stayed at home after an episode of home health care	3.87	10.79	OASIS	2016
Healthy Living	Live-born infants with low birth weight (less than 2,500 g)	5.71	14.14	NVSS_N	2017
Healthy Living	Children ages 19-35 months who received 1 or more doses of varicella vaccine	6.52	0.45	NIS	2016
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	9.82	1.14	NHIS	2017
Healthy Living	Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	9.87	0.86	NIS	2016
Healthy Living	Children ages 19-35 months who received 3 or more doses of polio vaccine	10.67	0.56	NIS	2016
Healthy Living	Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	11.90	0.75	NIS	2016
Healthy Living	Children ages 3-5 who ever had their vision checked by a health provider	12.01	0.99	MEPS	2016
Healthy Living	Adults age 65 and over who received an influenza vaccination in the last flu season	25.00	1.80	NHIS	2017
Healthy Living	Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	25.29	1.36	NIS	2016

Appendix A: List of Measures and Summary of Results for Figures

Priority Area	Measures for Hispanics Same as Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	30.00	1.53	NIS_TEEN	2016
Patient Safety	Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions	-18.18	-0.89	HCUP	2016
Patient Safety	Hospital patients who received a hypoglycemic agent who had an adverse drug events with hypoglycemic agents	-4.43	-0.24	MPSMS	2016
Patient Safety	Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults	-0.93	-0.15	HCUP	2016
Patient Safety	Postoperative hemorrhage or hematoma with surgical drainage or evacuation per 1,000 surgical hospital discharges, adults	-0.46	-0.10	HCUP	2016
Patient Safety	Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults	-0.37	-0.06	HCUP	2016
Patient Safety	Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions	0.48	0.21	HCUP	2016
Patient Safety	Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults	8.33	0.74	HCUP	2016
Patient Safety	Hospital patients with an anticoagulant-related adverse drug event to low-molecular-weight heparin (LMWH) and factor Xa	14.76	0.44	MPSMS	2015
Patient Safety	Adult surgery patients with catheter-associated urinary tract infection	18.52	0.49	MPSMS	2016
Patient Safety	Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children	19.35	1.06	HCUP	2016
Patient Safety	Adverse drug event with IV heparin in adult hospital patients who received an anticoagulant	75.26	1.61	MPSMS	2016
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-6.77	-3.20	MEPS	2016

Priority Area	Measures for Hispanics Same as Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Person-Centered Care	Hospice patients whose hospice care team always communicated well with their family caregivers about taking care them	-4.41	-2.85	HOSPICE_CAHPS	2017
Person-Centered Care	Family caregivers who rated the hospice care for their family member best (9-10) on a scale of 0-10 (where 0 is the worst and 10 is the best)	2.54	1.21	HOSPICE_CAHPS	2017
Person-Centered Care	Hospice patients who always received enough helps for pain, sadness, breathing, or constipations from hospice care team	3.98	3.16	HOSPICE_CAHPS	2017
Person-Centered Care	Hospice patients and family caregivers who always got help as soon as they need from hospice care team	5.78	3.15	HOSPICE_CAHPS	2017

Priority Area	Measures for Hispanics Worse Than Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Affordable Care	People without a usual source of care who indicated a financial or insurance reason for not having a source of care	110.68	7.21	MEPS	2016
Affordable Care	People unable to get or delayed in getting needed medical care due to financial or insurance reasons	53.02	3.92	MEPS	2016
Affordable Care	People unable to get or delayed in getting needed dental care due to financial or insurance reasons	17.03	3.33	MEPS	2016
Care Coordination	Children ages 2-19 who visited emergency department for asthma	93.86	2.56	NHAMCS	2015
Care Coordination	Hospital admissions for asthma per 100,000 population, children ages 2-17	77.56	5.18	HCUP	2016
Care Coordination	Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years	32.89	2.69	HCUP	2016
Care Coordination	Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years	28.29	2.82	HCUP	2016
Care Coordination	Hospital admissions for long-term complications of diabetes per 100,000 population, adults	24.10	4.10	HCUP	2016
Care Coordination	Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes	16.00	2.47	HCUP	2016
Effective Treatment	New HIV cases per 100,000 population age 13 and over	268.85	73.34	HIV_AIDSSS	2015
Effective Treatment	Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population	146.64	56.29	USRDS	2016

Appendix A: List of Measures and Summary of Results for Figures

Priority Area	Measures for Hispanics Worse Than Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Effective Treatment	HIV infection deaths per 100,000 population	112.50	8.83	NVSS_M	2016
Effective Treatment	Acute stroke patients for whom IV thrombolytic therapy was initiated at hospital within 3 hours of time last known well	84.35	11.76	QIO	2016
Effective Treatment	Stroke patients who received venous thromboembolism (VTE) prophylaxis	68.00	14.91	QIO	2015
Effective Treatment	Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	56.11	4.38	NSDUH	2016
Effective Treatment	Hospital patients with heart attack given fibrinolytic medication within 30 minutes of arrival	43.12	2.76	QIO	2015
Effective Treatment	Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	42.37	3.59	MEPS	2016
Effective Treatment	Stroke patients with educational material addressing activation of emergency medical system, follow-up after discharge, educations prescribed at discharge, risk factors for stroke, warning signs and symptoms of stroke	40.74	11.04	QIO	2015
Effective Treatment	People age 13 and over living with HIV who know their serostatus	38.66	32.53	HIV_AIDSSS	2015
Effective Treatment	Stroke patients prescribed statin medication at hospital discharge	26.67	5.88	QIO	2015
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	20.18	2.08	MEPS	2016
Effective Treatment	Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	20.04	3.36	NSDUH	2016
Effective Treatment	People age 13 and over living with diagnosed HIV whose most recent viral load in the last 12 months was under 200 copies/mL	19.76	46.67	HIV_AIDSSS	2015
Effective Treatment	Adult end stage renal disease (ESRD) patients who saw a nephrologist at least 12 months prior to initiation of renal replacement therapy	18.04	25.15	USRDS	2016
Healthy Living	Children who had their height and weight measured by a health provider within the past 2 years	117.78	5.30	MEPS	2016
Healthy Living	Hospital patients who received influenza vaccination	83.05	48.05	QIO	2016

Priority Area	Measures for Hispanics Worse Than Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Adults age 65 and over who ever received pneumococcal vaccination	82.84	7.15	NHIS	2017
Healthy Living	Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	80.33	6.43	NHIS	2017
Healthy Living	Children ages 2-19 with obesity	60.54	5.70	NHANES	2016
Healthy Living	Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over	55.63	5.47	HCUP	2016
Healthy Living	Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	40.95	2.27	NIS_TEEN	2016
Healthy Living	Adults who had a preventive dental service in the calendar year	37.62	15.54	MEPS	2016
Healthy Living	Home health care patients whose shortness of breath decreased	34.07	90.21	OASIS	2016
Healthy Living	Home health patients who had improvement in upper body dressing	34.00	83.35	OASIS	2016
Healthy Living	Home health care patients whose ability to get in and out of bed improved	33.87	103.90	OASIS	2016
Healthy Living	Children ages 0-17 with wellness checkup in the past 12 months	32.61	3.59	NHIS	2017
Healthy Living	Adults with obesity age 20 and over who had been told by a doctor or health professional that they were overweight	31.34	4.04	NHANES	2016
Healthy Living	Home health care patients whose ability to walk or move around improved	31.14	88.25	OASIS	2016
Healthy Living	Adults with a dental visit in the calendar year	30.25	15.20	MEPS	2016
Healthy Living	Women ages 21-65 who received a Pap smear in the last 3 years	29.31	3.67	NHIS	2015
Healthy Living	Home health care patients whose bathing improved	27.41	69.62	OASIS	2016
Healthy Living	Cervical cancer diagnosed at advanced stage (all invasive tumors) per 100,000 women age 20 and over	26.92	8.85	NPCR_USCS	2015
Healthy Living	Children ages 2-17 who had a dental visit in the calendar year	22.64	4.15	MEPS	2016

Appendix A: List of Measures and Summary of Results for Figures

Priority Area	Measures for Hispanics Worse Than Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Healthy Living	Adults ages 18 and over who received influenza vaccination in the last flu season	20.92	6.75	NHIS	2017
Healthy Living	Children ages 2-17 who had a preventive dental service in the calendar year	15.23	3.36	MEPS	2016
Healthy Living	Hospital patients who received pneumococcal immunization	10.34	3.44	QIO	2015
Patient Safety	Home health care patients whose management of oral medications improved	35.04	127.50	OASIS	2016
Patient Safety	Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults	15.54	2.74	HCUP	2016
Person-Centered Care	Family caregivers who received right amount of emotional and spiritual supports from hospice care team	79.21	26.61	HOSPICE_CAHPS	2017
Person-Centered Care	People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	54.92	4.68	MEPS	2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	53.37	3.81	MEPS	2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	47.88	3.27	MEPS	2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	39.51	3.97	MEPS	2016
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	34.58	2.55	MEPS	2016
Person-Centered Care	Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	19.57	2.23	MEPS	2016
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	15.20	2.57	MEPS	2016
Person-Centered Care	Hospice patients whose hospice care team always treated them with dignity and respect, and really cared about them	12.00	5.37	HOSPICE_CAHPS	2017

Priority Area	Measures for Hispanics Worse Than Non-Hispanic Whites	Relative Difference	Z Score	Data Source	Data Year
Person-Centered Care	Family caregivers who would definitely recommend this hospice to their friends and family	12.00	4.37	HOSPICE_CAHPS	2017

Measures included in Figure 95: Number and percentage of all quality measures that were improving, not changing, or worsening, total for Hispanics and by priority area, from 2000 through 2013, 2014, 2015, 2016, or 2017

Improving for Hispanics

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Affordable Care	People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-1.18	0.004	0.01	MEPS	15 (2002-2016)
Care Coordination	Adult hospital patients who did not receive good communication about discharge information	-5.58	0.004	0	HCAHPS	9 (2009-2017)
Care Coordination	Adult hospital patients who strongly disagree or disagree that staff took their preferences and those of their family and caregiver into account when deciding what the patients discharge health care would be	-1.81	0.003	0.024	HCAHPS	4 (2014-2017)
Effective Treatment	Short-stay home health patients who had diabetic foot care and patient education	-23.15	0.017	0.004	OASIS	4 (2013-2016)
Effective Treatment	Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-13.4	0.013	0	NCDB	10 (2005-2014)
Effective Treatment	Acute stroke patients for whom IV thrombolytic therapy was initiated at hospital within 3 hours of time last known well	-13.11	0.04	0.072	QIO	4 (2013-2016)
Effective Treatment	Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-9.59	0.014	0	NCDB	10 (2005-2014)
Effective Treatment	HIV infection deaths per 100,000 population	-8.81	0.003	0	NVSS_M	17 (2000-2016)
Effective Treatment	Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy)	-5.84	0.011	0.001	NCDB	10 (2005-2014)
Effective Treatment	Patients with tuberculosis who completed a curative course of treatment within 1 year of initiation of treatment	-5.63	0.007	0	NTBSS	16 (2000-2015)
Effective Treatment	New HIV cases per 100,000 population age 13 and over	-3.53	0.007	0.002	HIV_AIDSSS	8 (2008-2015)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Effective Treatment	Persons age 13 and over living with HIV who know their serostatus	-2.84	0.001	0	HIV_AIDSSS	6 (2010-2015)
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-2.57	0.006	0.003	MEPS	9 (2008-2016)
Effective Treatment	Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population	-2.3	0.001	0	USRDS	16 (2001-2016)
Effective Treatment	Lung cancer deaths per 100,000 population per year	-2.27	0.001	0	NVSS_M	17 (2000-2016)
Effective Treatment	Colorectal cancer deaths per 100,000 population per year	-1.59	0.001	0	NVSS_M	17 (2000-2016)
Effective Treatment	Adult hemodialysis patients who use arteriovenous fistulas as the primary mode of vascular access	-1.5	0.003	0.016	USRDS	5 (2012-2016)
Effective Treatment	Adult end stage renal disease (ESRD) patients who saw a nephrologist at least 12 months prior to initiation of renal replacement therapy	-1.14	0.001	0	USRDS	12 (2005-2016)
Effective Treatment	Breast cancer deaths per 100,000 female population per year	-1.08	0.001	0	NVSS_M	17 (2000-2016)
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-18.28	0.045	0.003	NIS_TEEN	9 (2008-2016)
Healthy Living	Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	-16.48	0.018	0	NIS_TEEN	9 (2008-2016)
Healthy Living	Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-15.82	0.034	0.002	NIS_TEEN	9 (2008-2016)
Healthy Living	Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	-14.04	0.022	0	NIS_TEEN	9 (2008-2016)
Healthy Living	Home health care patients whose shortness of breath decreased	-9.76	0.018	0.028	OASIS	4 (2013-2016)
Healthy Living	Adolescent males ages 16-17 who received 3 or more doses of human papillomavirus (HPV) vaccine	-8.51	0.003	0	NIS_TEEN	5 (2012-2016)
Healthy Living	Adolescent males ages 13-15 who received 3 or more doses of human papillomavirus (HPV) vaccine	-8.03	0.01	0.004	NIS_TEEN	5 (2012-2016)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Healthy Living	Adolescents females ages 16-17 who received 3 or more doses human papillomavirus vaccine	-7.27	0.011	0	NIS_TEEN	9 (2008-2016)
Healthy Living	Adults who received a blood cholesterol measurement in the last 5 years	-6.39	0.011	0.026	NHIS	15 (2003-2017)
Healthy Living	Home health care patients whose ability to walk or move around improved	-5.45	0.008	0.018	OASIS	4 (2013-2016)
Healthy Living	Home health care patients whose ability to get in and out of bed improved	-5.42	0.012	0.045	OASIS	4 (2013-2016)
Healthy Living	Children who had their height and weight measured by a health provider within the past 2 years	-5.27	0.006	0	MEPS	15 (2002-2016)
Healthy Living	Children ages 19-35 months who received 1 or more doses of varicella vaccine	-4.95	0.01	0	NIS	16 (2001-2016)
Healthy Living	Adolescents females ages 13-15 who received 3 or more doses human papillomavirus vaccine	-4.82	0.009	0.001	NIS_TEEN	9 (2008-2016)
Healthy Living	Children ages 0-17 with wellness checkup in the past 12 months	-4.27	0.003	0	NHIS	18 (2000-2017)
Healthy Living	Adults age 65 and over who received an influenza vaccination in the last flu season	-3.64	0.005	0	NHIS	13 (2005-2017)
Healthy Living	Cervical cancer diagnosed at advanced stage (all invasive tumors) per 100,000 women age 20 and over	-3.41	0.002	0	NPCR_USCS	16 (2000-2015)
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-2.96	0.003	0	MEPS	15 (2002-2016)
Healthy Living	Colorectal cancer diagnosed at advanced stage (tumors diagnosed at regional or distant stage) per 100,000 population age 50 and over	-2.71	0.001	0	NPCR_USCS	16 (2000-2015)
Healthy Living	Adults with obesity who ever received advice from a health professional to exercise more	-2.61	0.003	0	MEPS	15 (2002-2016)
Healthy Living	Children ages 3-5 who ever had their vision checked by a health provider	-2.52	0.003	0	MEPS	15 (2002-2016)
Healthy Living	Children ages 6 months to 17 years who received influenza vaccination in the last flu season	-2.27	0.008	0.032	NHIS	8 (2010-2017)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-2.23	0.002	0	MEPS	15 (2002-2016)
Healthy Living	Children ages 19-35 months who received 3 or more doses of polio vaccine	-2.2	0.009	0.024	NIS	16 (2001-2016)
Healthy Living	Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-2.18	0.006	0.003	MEPS	15 (2002-2016)
Healthy Living	Children ages 2-17 who had a dental visit in the calendar year	-1.95	0.001	0	MEPS	15 (2002-2016)
Healthy Living	Adults ages 18 and over who received influenza vaccination in the last flu season	-1.93	0.002	0	NHIS	8 (2010-2017)
Healthy Living	Adults age 65 and over who ever received pneumococcal vaccination	-1.92	0.002	0	NHIS	18 (2000-2017)
Healthy Living	Children ages 2-17 who had a preventive dental service in the calendar year	-1.86	0.001	0	MEPS	15 (2002-2016)
Healthy Living	Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-1.81	0.004	0.001	MEPS	15 (2002-2016)
Healthy Living	Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-1.65	0.002	0	NVSS_L	16 (2001-2016)
Healthy Living	Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-1.58	0.002	0	MEPS	15 (2002-2016)
Healthy Living	Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	-1.45	0.003	0	MEPS	15 (2002-2016)
Healthy Living	Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-1.39	0.002	0	MEPS	15 (2002-2016)
Healthy Living	Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-1.24	0.002	0	MEPS	15 (2002-2016)

Appendix A: List of Measures and Summary of Results for Figures

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Healthy Living	Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-1.15	0.002	0	MEPS	15 (2002-2016)
Patient Safety	Hospital patients with an anticoagulant-related adverse drug event to low-molecular-weight heparin (LMWH) and factor Xa	-11.17	0.037	0.034	MPSMS	6 (2010-2015)
Patient Safety	Hospital patients who received a hypoglycemic agent who had an adverse drug events with hypoglycemic agents	-9.4	0.031	0.025	MPSMS	7 (2010-2016)
Patient Safety	Home health care patients whose management of oral medications improved	-6.58	0.011	0.025	OASIS	4 (2013-2016)
Patient Safety	Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-5.87	0.007	0	MEPS	15 (2002-2016)
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-4.83	0.006	0	MEPS	15 (2002-2016)
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-4.62	0.014	0.026	MEPS	6 (2011-2016)
Person-Centered Care	Adult hospital patients who sometimes or never had good communication about medications they received in the hospital	-4.31	0.005	0	HCAHPS	9 (2009-2017)
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-3.61	0.006	0	MEPS	15 (2002-2016)
Person-Centered Care	Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-3.19	0.004	0	MEPS	15 (2002-2016)
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-2.69	0.007	0.001	MEPS	15 (2002-2016)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Person-Centered Care	Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-2.67	0.006	0.001	MEPS	15 (2002-2016)
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-1.9	0.006	0.028	MEPS	6 (2011-2016)
Person-Centered Care	Adults who reported being told what care and services they would get when they first started getting home health care	-1.37	0.004	0.029	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-1.31	0.002	0.001	MEPS	6 (2011-2016)

Not Changing for Hispanics

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Affordable Care	People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	0.79	0.004	0.058	MEPS	15 (2002-2016)
Affordable Care	People unable to get or delayed in getting needed dental care due to financial or insurance reasons	-0.1	0.002	0.675	MEPS	15 (2002-2016)
Affordable Care	People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-0.77	0.004	0.074	MEPS	15 (2002-2016)
Care Coordination	People with a usual source of care who usually asks about prescription medications and treatments from other doctors	0.28	0.005	0.603	MEPS	15 (2002-2016)
Care Coordination	Adults who reported that home health providers always seem informed and up-to-date about all the cares or treatments they got at home in the last 2 months of care	-0.45	0.004	0.312	HHCAHPS	6 (2012-2017)
Care Coordination	Home health patients who had timely initiation of care	-5.09	0.022	0.145	OASIS	4 (2013-2016)

Appendix A: List of Measures and Summary of Results for Figures

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	1.04	0.012	0.401	MEPS	15 (2002-2016)
Effective Treatment	People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	0.67	0.003	0.037	MEPS	14 (2003-2016)
Effective Treatment	Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure	0.43	0.001	0	USRDS	14 (2000-2013)
Effective Treatment	People age 12 and over treated for substance abuse who completed treatment course	0.13	0.002	0.451	TEDSD	12 (2005-2016)
Effective Treatment	Dialysis patients who were registered on a waiting list for transplantation	-0.3	0.001	0.006	USRDS	17 (2000-2016)
Effective Treatment	Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-0.4	0.015	0.796	NSDUH	9 (2008-2016)
Effective Treatment	Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-0.47	0.006	0.469	NSDUH	9 (2008-2016)
Effective Treatment	Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-0.62	0.004	0.182	MEPS	15 (2002-2016)
Effective Treatment	Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-0.66	0.006	0.293	NHIS	9 (2009-2017)
Effective Treatment	Hospital patients with heart attack given fibrinolytic medication within 30 minutes of arrival	-2.38	0.014	0.119	QIO	11 (2005-2015)
Healthy Living	Live-born infants with low birth weight (less than 2,500 g)	0.63	0.001	0	NVSS_N	11 (2007-2017)
Healthy Living	Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	0.41	0.007	0.575	NIS	16 (2001-2016)
Healthy Living	Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	0.19	0.011	0.868	NIS	16 (2001-2016)
Healthy Living	Adults who had a preventive dental service in the calendar year	-0.19	0.001	0.072	MEPS	15 (2002-2016)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Healthy Living	Hospital patients who received pneumococcal immunization	-0.31	0.08	0.973	QIO	4 (2012-2015)
Healthy Living	Adults with a dental visit in the calendar year	-0.31	0.001	0.002	MEPS	15 (2002-2016)
Healthy Living	Women ages 50-74 who received a mammogram in the last 2 years	-0.35	0.006	0.596	NHIS	16 (2000-2015)
Healthy Living	Home health care patients whose pain when moving around decreased	-0.41	0.021	0.864	OASIS	4 (2013-2016)
Healthy Living	Breast cancer diagnosed at advanced stage (regional, distant stage, or local stage with tumor greater than 2 cm) per 100,000 women age 40 and over	-0.54	0.001	0.002	NPCR_USCS	16 (2000-2015)
Healthy Living	Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	-0.68	0.005	0.192	NIS	16 (2001-2016)
Healthy Living	Home health patients who had improvement in upper body dressing	-0.71	0.014	0.666	OASIS	4 (2013-2016)
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-0.88	0.002	0	NHIS	18 (2000-2017)
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	-1.46	0.011	0.223	NHIS	8 (2010-2017)
Healthy Living	Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-1.8	0.021	0.458	NHIS	15 (2003-2017)
Healthy Living	Home health care patients whose bathing improved	-1.95	0.013	0.271	OASIS	4 (2013-2016)
Healthy Living	Hospital patients who received influenza vaccination	-9.16	0.095	0.387	QIO	5 (2012-2016)
Patient Safety	Adults who reported a home health provider talking with them about all the prescription and over-the-counter medicines they were taking when they first started getting home health care	1.2	0.006	0.107	HHCAHPS	6 (2012-2017)

Appendix A: List of Measures and Summary of Results for Figures

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Patient Safety	Adults home health patients age 18 and over who reported that home health providers talked with them about the side effects of medicines in the last 2 months of care	0.78	0.002	0.007	HHCAHPS	6 (2012-2017)
Patient Safety	Adults who reported that home health providers talked with them about when to take medicines in the last 2 months of care	0.75	0.002	0.01	HHCAHPS	6 (2012-2017)
Patient Safety	Adults who reported that home health providers talked with them about the purpose for taking their new or changed prescription medicines in the last 2 months of care	0.71	0.002	0.015	HHCAHPS	6 (2012-2017)
Patient Safety	Adults who reported a home health provider talking with them about how to set up their home so they can move around safely when they first started getting home health care	-0.86	0.004	0.1	HHCAHPS	6 (2012-2017)
Patient Safety	Adverse drug event with IV heparin in adult hospital patients who received an anticoagulant	-3.18	0.028	0.316	MPSMS	7 (2010-2016)
Patient Safety	Adult surgery patients with catheter-associated urinary tract infection	-6.79	0.04	0.136	MPSMS	7 (2010-2016)
Person-Centered Care	Adults who reported getting the help or advice they needed when they contacted their home health providers in the last 2 months of care	0.65	0.001	0.001	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported that home health providers always treated them with courtesy and respect in the last 2 months of care	0.64	0.004	0.191	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported that home health providers always listen carefully to them in the last 2 months of care	0.62	0.004	0.192	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported that home health providers always treated them as gently as possible in the last 2 months of care	0.46	0.004	0.27	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who reported that home health providers always explained things in a way that was easy to understand in the last 2 months of care	-0.26	0.004	0.535	HHCAHPS	6 (2012-2017)

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Person-Centered Care	Adults who reported that home health providers always kept them informed about when they would arrive at their home in the last 2 months of care	-0.31	0.004	0.433	HHCALPS	6 (2012-2017)
Person-Centered Care	Adults who reported that home health providers talk about pain in the last 2 months of care	-1.12	0.006	0.15	HHCALPS	6 (2012-2017)
Person-Centered Care	People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-1.25	0.008	0.149	MEPS	15 (2002-2016)

Worsening for Hispanics

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Affordable Care	People without a usual source of care who indicated a financial or insurance reason for not having a source of care	1.78	0.009	0.081	MEPS	15 (2002-2016)
Care Coordination	Children ages 2-19 who visited emergency department for asthma	9.52	0.01	0	NHAMCS	8 (2008-2015)
Care Coordination	Home health care patients who had an emergency department visit and then hospitalized	6.37	0.006	0.009	OASIS	4 (2013-2016)
Care Coordination	Home health care patients who had an emergency department visit without a hospitalization	3.98	0.005	0.014	OASIS	4 (2013-2016)
Care Coordination	Home health care patients who had to be admitted to the hospital	1.46	0.002	0.017	OASIS	4 (2013-2016)
Effective Treatment	Suicide deaths among persons age 12 and over per 100,000 population	1.88	0.005	0.006	NVSS_M	9 (2008-2016)
Effective Treatment	Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	1.46	0.007	0.067	MEPS	15 (2002-2016)
Healthy Living	Home health care patients who stayed at home after an episode of home health care	1.5	0.004	0.052	OASIS	4 (2013-2016)

Appendix A: List of Measures and Summary of Results for Figures

Priority Area	Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Healthy Living	Women ages 21-65 who received a Pap smear in the last 3 years	1.2	0.005	0.067	NHIS	16 (2000-2015)
Patient Safety	Adults who reported a home health provider asking to see all the prescription and over-the-counter medicines they were taking, when they first started getting home health care	3.74	0.005	0.002	HHCAHPS	6 (2012-2017)
Person-Centered Care	Adults who did not have any problem with the care they received from their home health providers in the last 2 months of care	1.42	0.003	0.01	HHCAHPS	6 (2012-2017)

Measures Included in Figure 96: Number and percentage of quality measures with disparity at baseline for which disparities related to race and ethnicity were improving, not changing, or worsening, total for Hispanics and by priority area, 2000 through 2013, 2014, 2015, 2016, or 2017

Priority Area	Disparities Between Hispanics and Non-Hispanic Whites Improving	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Effective Treatment	Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population	-0.034	-8.237	USRDS	2001-2016
Healthy Living	Home health care patients whose shortness of breath decreased	-2.75	-4.35	OASIS	2013-2016
Healthy Living	Children ages 2-17 who had a preventive dental service in the calendar year	-0.086	-1.226	MEPS	2002-2016
Healthy Living	Children ages 2-17 who had a dental visit in the calendar year	-0.054	-1.121	MEPS	2002-2016
Healthy Living	Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	0.044	-0.967	MEPS	2002-2016

Priority Area	Disparities Between Hispanics and Non-Hispanic Whites Not Changing	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Affordable Care	People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-0.353	-0.766	MEPS	2002-2016
Affordable Care	People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-0.513	-0.588	MEPS	2002-2016
Affordable Care	People without a usual source of care who indicated a financial or insurance reason for not having a source of care	0.041	0.469	MEPS	2002-2016
Effective Treatment	Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-0.799	-1.653	NCDB	2005-2014
Effective Treatment	New HIV cases per 100,000 population age 13 and over	-0.2	-0.908	HIV_AID_SSS	2008-2015
Effective Treatment	Adult end stage renal disease (ESRD) patients who saw a nephrologist at least 12 months prior to initiation of renal replacement therapy	-1.145	-0.865	USRDS	2005-2016

Priority Area	Disparities Between Hispanics and Non-Hispanic Whites Not Changing	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Effective Treatment	Short-stay home health patients who had diabetic foot care and patient education	-0.39	-0.79	OASIS	2013-2016
Effective Treatment	People age 13 and over living with HIV who know their serostatus	-0.349	-0.511	HIV_AID_SSS	2010-2015
Effective Treatment	HIV infection deaths per 100,000 population	-0.098	-0.332	NVSS_M	2000-2016
Effective Treatment	Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-0.453	-0.322	NSDUH	2008-2016
Effective Treatment	Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-0.121	-0.224	NHIS	2009-2017
Effective Treatment	Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	0.058	-0.202	NSDUH	2008-2016
Effective Treatment	Patients with treated chronic kidney failure who received a transplant within 3 years of date of renal failure	0.77	0.377	USRDS	2000-2013
Effective Treatment	Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	0.069	0.516	MEPS	2002-2016
Healthy Living	Home health care patients whose ability to get in and out of bed improved	-3.89	-2.55	OASIS	2013-2016
Healthy Living	Adults age 65 and over who received an influenza vaccination in the last flu season	-0.712	-1.625	NHIS	2005-2017
Healthy Living	Adults who received a blood cholesterol measurement in the last 5 years	-1.122	-1.406	NHIS	2003-2017
Healthy Living	Hospital patients who received influenza vaccination	-1.29	-1.36	QIO	2012-2016
Healthy Living	Adults ages 18 and over who received influenza vaccination in the last flu season	-1.125	-1.332	NHIS	2010-2017
Healthy Living	Adults with obesity who ever received advice from a health professional to exercise more	-0.336	-1.193	MEPS	2002-2016
Healthy Living	Adults age 65 and over who ever received pneumococcal vaccination	-0.731	-1.181	NHIS	2000-2017

Priority Area	Disparities Between Hispanics and Non-Hispanic Whites Not Changing	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Healthy Living	Children ages 0-17 with wellness checkup in the past 12 months	-0.992	-1.174	NHIS	2000-2017
Healthy Living	Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	-0.35	-0.868	NHIS	2010-2017
Healthy Living	Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-0.312	-0.867	MEPS	2002-2016
Healthy Living	Children who had their height and weight measured by a health provider within the past 2 years	-0.453	-0.704	MEPS	2002-2016
Healthy Living	Cervical cancer diagnosed at advanced stage (all invasive tumors) per 100,000 women age 20 and over	-0.127	-0.575	NPCR_USCS	2000-2015
Healthy Living	Adults with a dental visit in the calendar year	0.093	-0.256	MEPS	2002-2016
Healthy Living	Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-0.108	-0.255	NHIS	2003-2017
Healthy Living	Adults who had a preventive dental service in the calendar year	0.224	-0.143	MEPS	2002-2016
Healthy Living	Women ages 50-74 who received a mammogram in the last 2 years	0.389	-0.105	NHIS	2000-2015
Healthy Living	Hospital patients who received pneumococcal immunization	0.76	-0.09	QIO	2012-2015
Healthy Living	Women ages 21-65 who received a Pap smear in the last 3 years	0.474	0.25	NHIS	2000-2015
Patient Safety	Home health care patients whose management of oral medications improved	-3.42	-3.79	OASIS	2013-2016
Patient Safety	Hospital patients who received a hypoglycemic agent who had an adverse drug events with hypoglycemic agents	-0.603	-0.859	MPSMS	2010-2016
Patient Safety	Adult surgery patients with catheter-associated urinary tract infection	-0.127	-0.256	MPSMS	2010-2016
Person-Centered Care	Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-0.946	-1.766	MEPS	2011-2016

Appendix A: List of Measures and Summary of Results for Figures

Priority Area	Disparities Between Hispanics and Non-Hispanic Whites Not Changing	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Person-Centered Care	Adults who had a doctor’s office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-0.421	-0.551	MEPS	2002-2016
Person-Centered Care	Adults who had a doctor’s office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-0.258	-0.504	MEPS	2002-2016
Person-Centered Care	Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor’s office or clinic visit in the last 12 months	-0.269	-0.483	MEPS	2002-2016
Person-Centered Care	Adults who had a doctor’s office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-0.246	-0.294	MEPS	2002-2016
Person-Centered Care	People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-0.435	-0.273	MEPS	2002-2016
Person-Centered Care	Adults who had a doctor’s office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-0.231	-0.228	MEPS	2002-2016

Priority Area	Disparities Between Hispanics and Non-Hispanic Whites Worsening	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Healthy Living	Home health patients who had improvement in upper body dressing	-1.68	-0.24	OASIS	2013-2016
Healthy Living	Home health care patients whose ability to walk or move around improved	-3.42	-2.32	OASIS	2013-2016

APPENDIX A. LIST OF MEASURES AND SUMMARY OF RESULTS FOR FIGURES

A.4. Disparities: Income

Measures included in Figure 101: Number and percentage of quality measures for which income groups experienced better, same, or worse quality of care compared with reference group (high income), 2015, 2016, or 2017

Poor People vs. High-Income People

Measures for Poor People Better Than High-Income People	Relative Difference	Z Score	Data Source	Data Year
Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	-42.2	-16.30	HCUP	2016
Obstetric trauma per 1,000 instrument-assisted deliveries	-36.1	-10.70	HCUP	2016
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-29.1	-6.15	MEPS	2016
Children ages 6 months to 17 years who received influenza vaccination in the last flu season	-26.8	-5.44	NHIS	2017
Deaths per 1,000 adult hospital admissions with congestive heart failure	-23.3	-10.40	HCUP	2016
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-17.2	-3.03	NSDUH	2016
People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months	-14.5	-3.52	NSDUH	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-13.2	-4.55	MEPS	2016
Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults	-13.0	-2.12	HCUP	2016
People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months	-11.6	-5.01	NSDUH	2016
Adolescent males ages 13-15 who received 3 or more doses of human papillomavirus (HPV) vaccine	-10.3	-2.19	NIS_TEEN	2016

Measures for Poor People Same as High-Income People	Relative Difference	Z Score	Data Source	Data Year
Adults age 40 and over with diabetes whose condition was diagnosed	70.0	1.40	NHANES	2016
Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg	23.5	1.67	NHANES	2016
Children ages 3-5 who ever had their vision checked by a health provider	22.9	1.43	MEPS	2016
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	19.4	1.27	MEPS	2016

Measures for Poor People Same as High-Income People	Relative Difference	Z Score	Data Source	Data Year
Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults	14.3	0.35	HCUP	2016
Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	12.5	0.85	NIS_TEEN	2016
Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	10.9	1.27	NHIS	2017
Adults with obesity who ever received advice from a health professional to exercise more	10.6	1.71	MEPS	2016
Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	9.9	0.80	NIS_TEEN	2016
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	9.9	2.23	MEPS	2016
Postoperative hemorrhage or hematoma with surgical drainage or evacuation per 1,000 surgical hospital discharges, adults	8.5	2.21	HCUP	2016
Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions	7.3	3.74	HCUP	2016
Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults	7.0	1.99	HCUP	2016
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	6.4	0.67	MEPS	2016
Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	5.8	0.75	MEPS	2016
Adults with limited English proficiency who had a usual source of care	5.0	0.36	MEPS	2016
Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over	4.6	1.30	HCUP	2016
Birth trauma - injury to neonate per 1,000 selected live births	4.5	0.67	HCUP	2016
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	4.2	0.20	MEPS	2016
Children 0-40 lb for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	2.3	0.18	MEPS	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults	1.9	0.35	HCUP	2016
Adolescents females ages 16-17 who received 3 or more doses human papillomavirus vaccine	0.7	0.07	NIS_TEEN	2016
Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	0.7	0.11	MEPS	2016
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	0.3	0.02	MEPS	2016

Measures for Poor People Same as High-Income People	Relative Difference	Z Score	Data Source	Data Year
Adolescent males ages 16-17 who received 3 or more doses of human papillomavirus (HPV) vaccine	0.2	0.02	NIS_TEEN	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children	0.0	0.00	HCUP	2016
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	0.0	0.00	MEPS	2016
Adults with hypertension with blood pressure less than 140/90 mm/Hg	-1.6	-0.51	NHANES	2016
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	-1.9	-0.56	MEPS	2016
Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI)	-1.9	-0.82	HCUP	2016
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-2.2	-0.26	NHIS	2017
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-2.9	-1.27	MEPS	2016
Adolescents females ages 13-15 who received 3 or more doses human papillomavirus vaccine	-3.8	-0.65	NIS_TEEN	2016
Deaths per 1,000 adult hospital admissions with pneumonia	-5.4	-1.74	HCUP	2016
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-7.0	-2.56	NHIS	2017
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, adults	-7.6	-4.51	HCUP	2016
Adults with limited English proficiency and usual source of care (USC) and the USC had language assistance	-64.0	-1.80	MEPS	2016

Measures for Poor People Worse Than High-Income People	Relative Difference	Z Score	Data Source	Data Year
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	236.8	8.00	MEPS	2016
Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over	206.5	27.05	HCUP	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, adults	201.8	26.59	HCUP	2016
Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes	199.3	21.77	HCUP	2016
Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults	196.1	23.57	HCUP	2016
Emergency department encounters for asthma, adults	186.3	10.20	HCUP_NEDS	2016
Hospital admissions for hypertension per 100,000 population, adults age 18 and over	175.9	21.75	HCUP	2016

Measures for Poor People Worse Than High-Income People	Relative Difference	Z Score	Data Source	Data Year
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	167.2	6.28	MEPS	2016
Emergency department encounters for asthma, children ages 2-17	165.1	6.34	HCUP_NEDS	2016
Hospital admissions for long-term complications of diabetes per 100,000 population, adults	163.4	22.77	HCUP	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	160.8	6.90	MEPS	2016
Hospital admissions for asthma per 100,000 population, children ages 2-17	160.0	7.27	HCUP	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	158.1	6.89	MEPS	2016
Hospital admissions for asthma per 100,000 population, adults ages 18-39	150.5	14.60	HCUP	2016
Children ages 5-17 with untreated dental caries	149.5	6.87	NHANES	2016
Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	139.7	7.85	MEPS	2016
Children who had their height and weight measured by a health provider within the past 2 years	137.5	4.29	MEPS	2016
Women ages 21-65 who received a Pap smear in the last 3 years	127.5	9.49	NHIS	2015
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	122.9	9.29	MEPS	2016
Hospitalizations and emergency department encounters for congestive heart failure	110.0	10.06	HCUP_NEDS	2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	106.0	5.93	NHIS	2017
Hospital admissions for congestive heart failure per 100,000 population	105.9	19.48	HCUP	2016
Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over	105.8	20.38	HCUP	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years	102.0	7.93	HCUP	2016
Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	99.0	6.08	NIS	2016
Adults who received a blood cholesterol measurement in the last 5 years	95.7	7.96	NHIS	2017
Women ages 50-74 who received a mammogram in the last 2 years	94.3	8.09	NHIS	2015
Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17	91.8	5.09	HCUP	2016
Children ages 0-17 with wellness checkup in the past 12 months	90.7	5.78	NHIS	2017
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	81.3	5.92	MEPS	2016

Measures for Poor People Worse Than High-Income People	Relative Difference	Z Score	Data Source	Data Year
Hospital admissions for dehydration per 100,000 population, adults age 18 and over	81.3	16.20	HCUP	2016
Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	81.0	3.67	NIS	2016
Children ages 2-19 with obesity	76.5	3.57	NHANES	2016
Composite measure: Emergency department visits with a principal diagnosis related to co-occurring of mental health, alcohol and substance abuse, per 100,000 population	75.6	6.04	HCUP_NEDS	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over	74.1	14.65	HCUP	2016
Emergency department visits with a principal diagnosis related to mental health only per 100,000 population	72.9	7.49	HCUP_NEDS	2016
Emergency department visits with a principal diagnosis related to substance abuse only, per 100,000 population	65.4	4.83	HCUP_NEDS	2016
Children ages 2-17 who had a dental visit in the calendar year	63.8	8.76	MEPS	2016
Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults	63.6	11.09	HCUP	2016
Adults who had a preventive dental service in the calendar year	63.4	20.47	MEPS	2016
Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults	62.5	5.30	HCUP	2016
Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years	59.6	4.53	HCUP	2016
Adults with a dental visit in the calendar year	59.1	24.67	MEPS	2016
Children ages 19-35 months who received 3 or more doses of polio vaccine	58.9	2.74	NIS	2016
Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	55.8	2.50	NIS_TEEN	2016
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	54.2	2.59	MEPS	2016
Children ages 19-35 months who received 1 or more doses of varicella vaccine	53.7	2.68	NIS	2016
Infants born in the calendar year who received breastfeeding through 3 months	49.9	9.43	NIS	2015
Adults age 65 and over who ever received pneumococcal vaccination	49.8	5.05	NHIS	2017
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	48.8	3.59	MEPS	2016
Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	46.9	2.34	NIS	2016
Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults	45.1	8.54	HCUP	2016
Children ages 2-17 who had a preventive dental service in the calendar year	42.3	7.30	MEPS	2016
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	41.2	2.31	MEPS	2016

Measures for Poor People Worse Than High-Income People	Relative Difference	Z Score	Data Source	Data Year
Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults	38.4	3.96	HCUP	2016
Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	36.8	2.13	NIS_TEEN	2016
Adults age 65 and over who received an influenza vaccination in the last flu season	36.8	2.04	NHIS	2017
Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over	34.6	4.60	HCUP	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	34.0	3.96	MEPS	2016
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	33.8	3.67	MEPS	2016
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	31.1	3.48	MEPS	2016
Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions	30.0	2.12	HCUP	2016
Adults with obesity age 20 and over who had been told by a doctor or health professional that they were overweight	29.2	2.78	NHANES	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	26.1	3.64	MEPS	2016
Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair	24.7	2.44	HCUP	2016
Adults ages 18 and over who received influenza vaccination in the last flu season	21.9	5.18	NHIS	2017
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	21.8	2.53	MEPS	2016
Deaths per 1,000 hospital admissions with expected low-mortality	20.0	2.83	HCUP	2016
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	17.7	2.51	NSDUH	2016
Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over	17.3	3.11	HCUP	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	16.5	2.75	MEPS	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	13.3	2.54	MEPS	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children	10.9	2.46	HCUP	2016

Low-Income People vs. High-Income People

Measures for Low-Income People Better Than High-Income People	Relative Difference	Z Score	Data Source	Data Year
Adults with limited English proficiency and usual source of care (USC) and the USC had language assistance	-77.2	-2.20	MEPS	2016
Children ages 6 months to 17 years who received influenza vaccination in the last flu season	-29.9	-5.87	NHIS	2017
Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	-28.9	-11.10	HCUP	2016
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-24.3	-3.35	NSDUH	2016
Obstetric trauma per 1,000 instrument-assisted deliveries	-22.9	-6.65	HCUP	2016
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-16.2	-3.34	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-11.1	-4.17	MEPS	2016

Measures for Low-Income People Same as High-Income People	Relative Difference	Z Score	Data Source	Data Year
Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults	42.9	1.34	HCUP	2016
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	26.7	1.83	MEPS	2016
Children ages 3-5 who ever had their vision checked by a health provider	21.6	1.28	MEPS	2016
Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg	20.1	1.53	NHANES	2016
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	19.5	0.99	MEPS	2016
Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair	19.2	1.94	HCUP	2016
Emergency department visits with a principal diagnosis related to substance abuse only, per 100,000 population	19.0	1.90	HCUP_NEDS	2016
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	17.9	1.00	MEPS	2016
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	16.7	1.37	MEPS	2016
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	15.1	1.64	MEPS	2016
Deaths per 1,000 hospital admissions with expected low-mortality	15.0	1.34	HCUP	2016

Measures for Low-Income People Same as High-Income People	Relative Difference	Z Score	Data Source	Data Year
Adults with limited English proficiency who had a usual source of care	10.1	0.75	MEPS	2016
Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions	10.0	0.71	HCUP	2016
Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	8.7	1.08	MEPS	2016
Adults with obesity who ever received advice from a health professional to exercise more	8.7	1.45	MEPS	2016
Birth trauma - injury to neonate per 1,000 selected live births	7.4	1.33	HCUP	2016
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	6.5	0.83	NHIS	2017
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	6.0	1.28	MEPS	2016
Adolescents females ages 13-15 who received 3 or more doses human papillomavirus vaccine	5.8	0.93	NIS_TEEN	2016
Children 0-40 lb for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	5.8	0.42	MEPS	2016
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	5.7	0.81	NSDUH	2016
Adolescent males ages 16-17 who received 3 or more doses of human papillomavirus (HPV) vaccine	4.7	0.84	NIS_TEEN	2016
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	4.5	0.46	MEPS	2016
Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	3.6	0.58	MEPS	2016
Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over	3.2	0.57	HCUP	2016
Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions	2.7	1.31	HCUP	2016
Postoperative hemorrhage or hematoma with surgical drainage or evacuation per 1,000 surgical hospital discharges, adults	1.8	0.46	HCUP	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children	0.0	0.00	HCUP	2016
Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults	0.0	0.00	HCUP	2016
Adolescent males ages 13-15 who received 3 or more doses of human papillomavirus (HPV) vaccine	-0.6	-0.12	NIS_TEEN	2016

Measures for Low-Income People Same as High-Income People	Relative Difference	Z Score	Data Source	Data Year
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults	-0.9	-0.18	HCUP	2016
Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI)	-1.0	-0.39	HCUP	2016
Adults with hypertension with blood pressure less than 140/90 mm/Hg	-1.1	-0.36	NHANES	2016
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-1.2	-0.44	NHIS	2017
Deaths per 1,000 adult hospital admissions with pneumonia	-1.4	-0.46	HCUP	2016
Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over	-1.8	-0.50	HCUP	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, adults	-2.4	-1.40	HCUP	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-2.9	-1.39	MEPS	2016
Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults	-3.8	-1.22	HCUP	2016
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	-3.9	-1.10	MEPS	2016
People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months	-5.7	-3.32	NSDUH	2016
People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months	-6.0	-1.78	NSDUH	2016
Deaths per 1,000 adult hospital admissions with congestive heart failure	-9.9	-4.10	HCUP	2016

Measures for Low-Income People Worse Than High-Income People	Relative Difference	Z Score	Data Source	Data Year
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	192.7	6.81	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	152.1	6.86	MEPS	2016
Women ages 21-65 who received a Pap smear in the last 3 years	112.5	8.84	NHIS	2015
Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over	109.2	19.14	HCUP	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, adults	109.0	19.10	HCUP	2016
Adults age 40 and over with diabetes whose condition was diagnosed	107.7	2.62	NHANES	2016
Emergency department encounters for asthma, adults	106.0	8.37	HCUP_NEDS	2016
Children ages 5-17 with untreated dental caries	105.5	5.21	NHANES	2016

Measures for Low-Income People Worse Than High-Income People	Relative Difference	Z Score	Data Source	Data Year
Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	102.0	5.25	NIS	2016
Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes	100.7	16.62	HCUP	2016
Children who had their height and weight measured by a health provider within the past 2 years	100.0	2.94	MEPS	2016
Children ages 0-17 with wellness checkup in the past 12 months	99.0	7.16	NHIS	2017
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	94.0	5.83	NHIS	2017
Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults	85.7	14.15	HCUP	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	85.2	5.15	MEPS	2016
Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	82.8	3.53	NIS	2016
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	82.6	7.47	MEPS	2016
Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	82.2	5.83	MEPS	2016
Children ages 19-35 months who received 3 or more doses of polio vaccine	82.1	2.85	NIS	2016
Hospital admissions for long-term complications of diabetes per 100,000 population, adults	82.0	16.24	HCUP	2016
Women ages 50-74 who received a mammogram in the last 2 years	79.2	7.32	NHIS	2015
Children ages 19-35 months who received 1 or more doses of varicella vaccine	77.6	3.02	NIS	2016
Hospital admissions for hypertension per 100,000 population, adults age 18 and over	75.3	12.72	HCUP	2016
Children ages 2-19 with obesity	74.0	3.45	NHANES	2016
Hospital admissions for asthma per 100,000 population, adults ages 18-39	72.6	10.41	HCUP	2016
Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over	72.2	14.90	HCUP	2016
Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	71.9	2.85	NIS	2016
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	69.7	4.19	MEPS	2016
Emergency department encounters for asthma, children ages 2-17	66.5	3.96	HCUP_NEDS	2016
Hospitalizations and emergency department encounters for congestive heart failure	66.2	7.14	HCUP_NEDS	2016
Adults who had a preventive dental service in the calendar year	63.6	21.70	MEPS	2016

Measures for Low-Income People Worse Than High-Income People	Relative Difference	Z Score	Data Source	Data Year
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	60.8	3.51	MEPS	2016
Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	60.0	2.65	NIS_TEEN	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years	58.3	5.41	HCUP	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	57.3	4.18	MEPS	2016
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	56.7	2.88	MEPS	2016
Hospital admissions for congestive heart failure per 100,000 population	55.0	12.56	HCUP	2016
Adults who received a blood cholesterol measurement in the last 5 years	54.8	5.93	NHIS	2017
Adults with a dental visit in the calendar year	54.6	22.78	MEPS	2016
Children ages 2-17 who had a dental visit in the calendar year	50.9	6.61	MEPS	2016
Emergency department visits with a principal diagnosis related to mental health only per 100,000 population	46.1	5.39	HCUP_NEDS	2016
Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults	45.8	3.89	HCUP	2016
Hospital admissions for asthma per 100,000 population, children ages 2-17	45.4	3.92	HCUP	2016
Hospital admissions for dehydration per 100,000 population, adults age 18 and over	44.5	9.90	HCUP	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17	44.5	2.94	HCUP	2016
Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	44.2	2.07	NIS_TEEN	2016
Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults	42.4	8.12	HCUP	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over	41.7	8.93	HCUP	2016
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	41.6	4.93	MEPS	2016
Composite measure: Emergency department visits with a principal diagnosis related to co-occurring of mental health, alcohol and substance abuse, per 100,000 population	40.2	3.76	HCUP_NEDS	2016
Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over	37.2	5.20	HCUP	2016
Adults age 65 and over who ever received pneumococcal vaccination	35.4	4.84	NHIS	2017
Children ages 2-17 who had a preventive dental service in the calendar year	34.3	5.92	MEPS	2016

Appendix A: List of Measures and Summary of Results for Figures

Measures for Low-Income People Worse Than High-Income People	Relative Difference	Z Score	Data Source	Data Year
Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	34.0	2.23	NIS_TEEN	2016
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	33.8	2.19	MEPS	2016
Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	27.3	2.03	NIS_TEEN	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	27.3	2.94	MEPS	2016
Adults age 65 and over who received an influenza vaccination in the last flu season	26.4	2.92	NHIS	2017
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	26.4	3.24	MEPS	2016
Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years	22.9	1.97	HCUP	2016
Adolescents females ages 16-17 who received 3 or more doses human papillomavirus vaccine	22.6	2.34	NIS_TEEN	2016
Adults with obesity age 20 and over who had been told by a doctor or health professional that they were overweight	22.4	1.97	NHANES	2016
Infants born in the calendar year who received breastfeeding through 3 months	22.1	3.86	NIS	2015
Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults	21.9	2.26	HCUP	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	21.8	4.07	MEPS	2016
Adults ages 18 and over who received influenza vaccination in the last flu season	21.7	6.83	NHIS	2017
Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults	18.8	3.87	HCUP	2016
Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	18.6	2.18	NHIS	2017
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	17.8	2.97	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	14.6	2.33	MEPS	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children	10.4	2.38	HCUP	2016

Middle-Income People vs. High-Income People

Measures for Middle-Income People Better Than High-Income People	Relative Difference	Z Score	Data Source	Data Year
Children ages 6 months to 17 years who received influenza vaccination in the last flu season	-27.8	-5.20	NHIS	2017
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-20.5	-2.96	NSDUH	2016
Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	-16.0	-6.17	HCUP	2016
Obstetric trauma per 1,000 instrument-assisted deliveries	-13.7	-3.90	HCUP	2016
Deaths per 1,000 adult hospital admissions with congestive heart failure	-11.5	-4.74	HCUP	2016
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-10.0	-2.23	MEPS	2016

Measures for Middle-Income People Same as High-Income People	Relative Difference	Z Score	Data Source	Data Year
Adults age 40 and over with diabetes whose condition was diagnosed	72.3	1.84	NHANES	2016
Children ages 19-35 months who received 3 or more doses of polio vaccine	44.6	1.84	NIS	2016
Children ages 2-19 with obesity	42.0	1.86	NHANES	2016
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	31.2	1.50	MEPS	2016
Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	22.1	1.56	NIS_TEEN	2016
Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years	18.9	1.63	HCUP	2016
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	18.5	1.14	MEPS	2016
Adults with limited English proficiency who had a usual source of care	17.5	1.24	MEPS	2016
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	16.4	1.41	MEPS	2016
Composite measure: Emergency department visits with a principal diagnosis related to co-occurring of mental health, alcohol and substance abuse, per 100,000 population	14.9	1.57	HCUP_NEDS	2016
Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults	14.3	0.35	HCUP	2016
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	11.5	1.74	NHIS	2017
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	10.8	1.80	MEPS	2016

Measures for Middle-Income People Same as High-Income People	Relative Difference	Z Score	Data Source	Data Year
Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions	10.0	0.71	HCUP	2016
Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults	9.6	1.09	HCUP	2016
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	9.2	1.19	MEPS	2016
Adults with obesity who ever received advice from a health professional to exercise more	9.0	1.67	MEPS	2016
Adolescent males ages 13-15 who received 3 or more doses of human papillomavirus (HPV) vaccine	8.8	2.44	NIS_TEEN	2016
Adolescent males ages 16-17 who received 3 or more doses of human papillomavirus (HPV) vaccine	7.4	1.44	NIS_TEEN	2016
Birth trauma - injury to neonate per 1,000 selected live births	6.7	1.24	HCUP	2016
Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	6.0	0.76	MEPS	2016
Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	5.6	0.88	MEPS	2016
Infants born in the calendar year who received breastfeeding through 3 months	5.5	1.02	NIS	2015
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children	5.4	1.18	HCUP	2016
Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	5.2	0.69	NHIS	2017
Adults with obesity age 20 and over who had been told by a doctor or health professional that they were overweight	3.8	0.37	NHANES	2016
Adults age 65 and over who received an influenza vaccination in the last flu season	3.5	0.39	NHIS	2017
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults	2.8	0.53	HCUP	2016
Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over	2.1	0.39	HCUP	2016
Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions	1.8	0.89	HCUP	2016
Adults age 65 and over who ever received pneumococcal vaccination	1.4	0.25	NHIS	2017
Postoperative hemorrhage or hematoma with surgical drainage or evacuation per 1,000 surgical hospital discharges, adults	0.5	0.12	HCUP	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children	0.0	0.00	HCUP	2016

Measures for Middle-Income People Same as High-Income People	Relative Difference	Z Score	Data Source	Data Year
Deaths per 1,000 hospital admissions with expected low-mortality	0.0	0.00	HCUP	2016
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-0.1	-0.06	NHIS	2017
Emergency department visits with a principal diagnosis related to substance abuse only, per 100,000 population	-0.1	-0.01	HCUP_NEDS	2016
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	-0.3	-0.07	MEPS	2016
Adults with hypertension with blood pressure less than 140/90 mm/Hg	-0.4	-0.12	NHANES	2016
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-0.6	-0.04	MEPS	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, adults	-0.8	-0.46	HCUP	2016
Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over	-1.8	-0.50	HCUP	2016
People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months	-2.7	-2.13	NSDUH	2016
Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg	-2.8	-0.20	NHANES	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-3.1	-1.66	MEPS	2016
Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults	-3.2	-1.10	HCUP	2016
People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months	-3.7	-1.16	NSDUH	2016
Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI)	-4.6	-1.97	HCUP	2016
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-5.0	-0.66	MEPS	2016
Deaths per 1,000 adult hospital admissions with pneumonia	-5.4	-1.63	HCUP	2016
Children ages 3-5 who ever had their vision checked by a health provider	-6.3	-0.39	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-7.8	-3.35	MEPS	2016
Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults	-8.7	-1.41	HCUP	2016
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-10.1	-0.99	MEPS	2016
Children 0-40 lb for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	-13.6	-1.08	MEPS	2016

Measures for Middle-Income People Same as High-Income People	Relative Difference	Z Score	Data Source	Data Year
Adults with limited English proficiency and usual source of care (USC) and the USC had language assistance	-25.4	-0.65	MEPS	2016

Measures for Middle-Income People Worse Than High-Income People	Relative Difference	Z Score	Data Source	Data Year
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	97.1	4.64	MEPS	2016
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	92.7	7.89	MEPS	2016
Women ages 21-65 who received a Pap smear in the last 3 years	72.5	6.79	NHIS	2015
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	68.7	5.14	MEPS	2016
Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	66.3	3.10	NIS_TEEN	2016
Children who had their height and weight measured by a health provider within the past 2 years	62.5	2.35	MEPS	2016
Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	62.5	2.77	NIS	2016
Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	62.0	3.48	NIS	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, adults	58.8	12.12	HCUP	2016
Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	58.6	2.50	NIS	2016
Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes	56.3	11.31	HCUP	2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	56.0	4.95	NHIS	2017
Children ages 5-17 with untreated dental caries	51.7	2.29	NHANES	2016
Children ages 0-17 with wellness checkup in the past 12 months	51.6	5.00	NHIS	2017
Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over	50.3	10.24	HCUP	2016
Children ages 19-35 months who received 1 or more doses of varicella vaccine	49.3	2.22	NIS	2016
Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	48.0	4.07	MEPS	2016
Hospital admissions for long-term complications of diabetes per 100,000 population, adults	44.2	9.28	HCUP	2016
Women ages 50-74 who received a mammogram in the last 2 years	43.6	4.74	NHIS	2015

Measures for Middle-Income People Worse Than High-Income People	Relative Difference	Z Score	Data Source	Data Year
Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults	41.5	7.95	HCUP	2016
Adults who had a preventive dental service in the calendar year	41.2	14.85	MEPS	2016
Hospital admissions for hypertension per 100,000 population, adults age 18 and over	40.1	7.37	HCUP	2016
Emergency department encounters for asthma, adults	39.9	4.54	HCUP_NEDS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	39.0	2.40	MEPS	2016
Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	37.5	2.67	NIS_TEEN	2016
Children ages 2-17 who had a dental visit in the calendar year	37.4	5.13	MEPS	2016
Emergency department encounters for asthma, children ages 2-17	36.7	2.02	HCUP_NEDS	2016
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	36.3	2.34	MEPS	2016
Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults	35.4	3.01	HCUP	2016
Hospital admissions for asthma per 100,000 population, adults ages 18-39	35.3	5.66	HCUP	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	34.3	4.00	MEPS	2016
Adults with a dental visit in the calendar year	34.3	14.30	MEPS	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years	32.5	3.15	HCUP	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	32.3	2.09	MEPS	2016
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	31.9	2.05	MEPS	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17	31.9	2.16	HCUP	2016
Adults who received a blood cholesterol measurement in the last 5 years	31.2	3.71	NHIS	2017
Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over	30.9	4.31	HCUP	2016
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	30.1	3.44	MEPS	2016
Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair	29.6	2.86	HCUP	2016
Hospital admissions for asthma per 100,000 population, children ages 2-17	29.1	2.63	HCUP	2016
Hospital admissions for congestive heart failure per 100,000 population	28.5	6.80	HCUP	2016

Appendix A: List of Measures and Summary of Results for Figures

Measures for Middle-Income People Worse Than High-Income People	Relative Difference	Z Score	Data Source	Data Year
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	28.3	2.04	MEPS	2016
Children ages 2-17 who had a preventive dental service in the calendar year	28.2	4.74	MEPS	2016
Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over	27.3	6.27	HCUP	2016
Adolescents females ages 16-17 who received 3 or more doses human papillomavirus vaccine	24.5	2.64	NIS_TEEN	2016
Hospitalizations and emergency department encounters for congestive heart failure	23.0	2.97	HCUP_NEDS	2016
Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults	22.1	4.37	HCUP	2016
Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	21.7	2.06	NIS_TEEN	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	21.3	2.05	MEPS	2016
Hospital admissions for dehydration per 100,000 population, adults age 18 and over	20.4	4.83	HCUP	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over	16.7	3.79	HCUP	2016
Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults	16.1	3.46	HCUP	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	15.7	2.93	MEPS	2016
Adolescents females ages 13-15 who received 3 or more doses human papillomavirus vaccine	15.5	2.90	NIS_TEEN	2016
Emergency department visits with a principal diagnosis related to mental health only per 100,000 population	15.3	2.04	HCUP_NEDS	2016
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	14.4	2.25	NSDUH	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	14.0	2.44	MEPS	2016
Adults ages 18 and over who received influenza vaccination in the last flu season	12.7	4.68	NHIS	2017
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	10.7	2.67	MEPS	2016

Measures included in Figure 108: Number and percentage of all quality measures that were improving, not changing, or worsening, by income group, from 2000 through 2014, 2015, 2016, or 2017

Improving for Poor People

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-18.71	0.029	0	NIS_TEEN	9 (2008-2016)
Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-17.59	0.026	0	NIS_TEEN	9 (2008-2016)
Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	-15.61	0.011	0	NIS_TEEN	9 (2008-2016)
Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	-14.19	0.012	0	NIS_TEEN	9 (2008-2016)
Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-12.94	0.021	0	NCDB	10 (2005-2014)
Adolescent males ages 16-17 who received 3 or more doses of human papillomavirus (HPV) vaccine	-8.4	0.01	0.003	NIS_TEEN	5 (2012-2016)
Adolescent males ages 13-15 who received 3 or more doses of human papillomavirus (HPV) vaccine	-8.13	0.005	0	NIS_TEEN	5 (2012-2016)
Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-7.48	0.014	0	NCDB	10 (2005-2014)
Adolescents females ages 16-17 who received 3 or more doses human papillomavirus vaccine	-6.77	0.014	0.002	NIS_TEEN	8 (2009-2016)
Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy)	-5.82	0.025	0.044	NCDB	10 (2005-2014)
Adults age 65 and over who received in the calendar year at least 1 of 11 prescription medications that should be avoided in older adults	-5.42	0.012	0.01	MEPS	13 (2002-2014)
Adults who received a blood cholesterol measurement in the last 5 years	-5.33	0.014	0.057	NHIS	15 (2003-2017)
Children ages 19-35 months who received 1 or more doses of varicella vaccine	-4.97	0.01	0	NIS	16 (2001-2016)

Appendix A: List of Measures and Summary of Results for Figures

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Children who had their height and weight measured by a health provider within the past 2 years	-4.52	0.006	0	MEPS	15 (2002-2016)
Adolescents females ages 13-15 who received 3 or more doses human papillomavirus vaccine	-4.51	0.006	0	NIS_TEEN	9 (2008-2016)
Children ages 0-17 with wellness checkup in the past 12 months	-4.27	0.003	0	NHIS	18 (2000-2017)
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-3.85	0.005	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-3.32	0.007	0	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-3.15	0.008	0.007	MEPS	9 (2008-2016)
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-2.63	0.003	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-2.62	0.005	0	MEPS	15 (2002-2016)
Adults ages 18 and over who received influenza vaccination in the last flu season	-2.58	0.002	0	NHIS	8 (2010-2017)
Children ages 5-17 with untreated dental caries	-2.44	0.004	0.028	NHANES	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-2.44	0.004	0.002	MEPS	6 (2011-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-2.41	0.003	0	MEPS	15 (2002-2016)
Children ages 19-35 months who received 3 or more doses of polio vaccine	-2.37	0.009	0.015	NIS	16 (2001-2016)
Adults age 65 and over who received an influenza vaccination in the last flu season	-2.3	0.006	0.004	NHIS	13 (2005-2017)
Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	-2.25	0.007	0.016	NHIS	8 (2010-2017)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Children ages 3-5 who ever had their vision checked by a health provider	-2.24	0.003	0	MEPS	15 (2002-2016)
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-2.18	0.007	0.006	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-2.16	0.006	0.004	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-2.09	0.006	0.005	MEPS	15 (2002-2016)
Infants born in the calendar year who received breastfeeding through 3 months	-2.04	0.003	0.001	NIS	7 (2009-2015)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-1.98	0.002	0	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional to exercise more	-1.96	0.002	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-1.71	0.005	0.006	MEPS	15 (2002-2016)
Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-1.54	0.002	0	MEPS	15 (2002-2016)
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-1.51	0.006	0.017	MEPS	15 (2002-2016)
Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-1.49	0.004	0.004	MEPS	15 (2002-2016)
Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	-1.36	0.006	0.029	MEPS	15 (2002-2016)
Children ages 2-17 who had a dental visit in the calendar year	-1.33	0.001	0	MEPS	15 (2002-2016)
Children ages 2-17 who had a preventive dental service in the calendar year	-1.26	0.001	0	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-1.14	0.004	0.008	MEPS	15 (2002-2016)
Adults age 65 and over who ever received pneumococcal vaccination	-1.1	0.003	0.003	NHIS	18 (2000-2017)

Not Changing for Poor People

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults who had a doctor’s office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-3.09	0.017	0.142	MEPS	6 (2011-2016)
Adults age 40 and over with diabetes whose condition was diagnosed	-2.41	0.029	0.483	NHANES	13 (2004-2016)
Children ages 6 months to 17 years who received influenza vaccination in the last flu season	-1.51	0.011	0.224	NHIS	8 (2010-2017)
Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	-1.11	0.01	0.277	NIS	16 (2001-2016)
Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-1	0.002	0	MEPS	15 (2002-2016)
Adults who had a doctor’s office or clinic in the last 12 months whose health providers always offered help in filling out forms	-0.99	0.005	0.125	MEPS	6 (2011-2016)
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-0.98	0.004	0.019	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-0.92	0.002	0.001	MEPS	15 (2002-2016)
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-0.91	0.018	0.647	NHIS	15 (2003-2017)
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-0.9	0.005	0.07	MEPS	15 (2002-2016)
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-0.81	0.001	0	NHIS	18 (2000-2017)
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-0.73	0.004	0.062	MEPS	15 (2002-2016)
Adults with obesity age 20 and over who had been told by a doctor or health professional that they were overweight	-0.73	0.006	0.337	NHANES	13 (2004-2016)
Adults with hypertension with blood pressure less than 140/90 mm/Hg	-0.68	0	0.001	NHANES	13 (2004-2016)
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	-0.61	0.003	0.096	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-0.56	0.003	0.077	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	-0.44	0.004	0.331	NIS	16 (2001-2016)
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-0.38	0.003	0.312	NHIS	9 (2009-2017)
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-0.34	0.006	0.596	NSDUH	9 (2008-2016)
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-0.14	0.01	0.888	NSDUH	9 (2008-2016)
Children with obesity 2-19 years of age who had been told by a doctor or health professional that they were overweight	-0.09	0.002	0.708	NHANES	13 (2004-2016)
Adults with a dental visit in the calendar year	-0.02	0	0.68	MEPS	15 (2002-2016)
Adults who had a preventive dental service in the calendar year	0.07	0.001	0.343	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg	0.28	0.004	0.529	NHANES	13 (2004-2016)
Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	0.39	0.006	0.518	NIS	16 (2001-2016)
Women ages 50-74 who received a mammogram in the last 2 years	0.45	0.005	0.432	NHIS	16 (2000-2015)
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	0.69	0.008	0.391	MEPS	15 (2002-2016)
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	0.7	0.003	0.031	MEPS	14 (2003-2016)
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	0.83	0.009	0.347	MEPS	15 (2002-2016)

Worsening for Poor People

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Children ages 2-19 with obesity	1.33	0.004	0.081	NHANES	13 (2004-2016)
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	2.12	0.011	0.075	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Women ages 21-65 who received a Pap smear in the last 3 years	2.49	0.01	0.074	NHIS	16 (2000-2015)
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	6.06	0.005	0	HCUP	12 (2005-2016)
Emergency department visits involving opioid-related diagnoses per 100,000 population	10.85	0.007	0	HCUP_NEDS	12 (2005-2016)

Improving for Low-Income People

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-20.95	0.029	0	NIS_TEEN	9 (2008-2016)
Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-15.9	0.031	0.001	NIS_TEEN	9 (2008-2016)
Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	-14.91	0.012	0	NIS_TEEN	9 (2008-2016)
Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-14.2	0.011	0	NCDB	10 (2005-2014)
Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	-11.95	0.018	0	NIS_TEEN	9 (2008-2016)
Adolescent males ages 16-17 who received 3 or more doses of human papillomavirus (HPV) vaccine	-8.73	0.005	0	NIS_TEEN	5 (2012-2016)
Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-7.91	0.011	0	NCDB	10 (2005-2014)
Adolescent males ages 13-15 who received 3 or more doses of human papillomavirus (HPV) vaccine	-6.39	0.009	0.005	NIS_TEEN	5 (2012-2016)
Adults who received a blood cholesterol measurement in the last 5 years	-6.19	0.014	0.044	NHIS	15 (2003-2017)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy)	-5.66	0.015	0.004	NCDB	10 (2005-2014)
Adolescents females ages 16-17 who received 3 or more doses human papillomavirus vaccine	-5.65	0.009	0	NIS_TEEN	9 (2008-2016)
Children ages 19-35 months who received 1 or more doses of varicella vaccine	-5.13	0.01	0	NIS	16 (2001-2016)
Children who had their height and weight measured by a health provider within the past 2 years	-4.91	0.007	0	MEPS	15 (2002-2016)
Adults age 65 and over who received in the calendar year at least 1 of 11 prescription medications that should be avoided in older adults	-4.46	0.015	0.01	MEPS	15 (2002-2016)
Children ages 0-17 with wellness checkup in the past 12 months	-3.92	0.004	0	NHIS	18 (2000-2017)
Children ages 6 months to 17 years who received influenza vaccination in the last flu season	-3.56	0.009	0.006	NHIS	8 (2010-2017)
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-3.44	0.004	0	MEPS	15 (2002-2016)
Adolescents females ages 13-15 who received 3 or more doses human papillomavirus vaccine	-3.14	0.008	0.007	NIS_TEEN	9 (2008-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-3.14	0.008	0.014	MEPS	6 (2011-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-2.96	0.003	0	MEPS	15 (2002-2016)
Infants born in the calendar year who received breastfeeding through 3 months	-2.74	0.013	0.086	NIS	7 (2009-2015)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-2.69	0.007	0.001	MEPS	15 (2002-2016)
Children ages 19-35 months who received 3 or more doses of polio vaccine	-2.64	0.01	0.017	NIS	16 (2001-2016)
Children ages 3-5 who ever had their vision checked by a health provider	-2.53	0.005	0	MEPS	15 (2002-2016)

Appendix A: List of Measures and Summary of Results for Figures

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-2.51	0.005	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-2.45	0.007	0.002	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-2.21	0.005	0.01	MEPS	6 (2011-2016)
Adults age 65 and over who received an influenza vaccination in the last flu season	-2.19	0.006	0.005	NHIS	13 (2005-2017)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-2.14	0.002	0	MEPS	15 (2002-2016)
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-2.01	0.006	0.005	MEPS	15 (2002-2016)
Adults ages 18 and over who received influenza vaccination in the last flu season	-1.65	0.003	0.001	NHIS	8 (2010-2017)
Children ages 2-17 who had a dental visit in the calendar year	-1.62	0.002	0	MEPS	15 (2002-2016)
Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-1.58	0.002	0	MEPS	15 (2002-2016)
Children ages 2-17 who had a preventive dental service in the calendar year	-1.57	0.002	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-1.55	0.006	0.023	MEPS	15 (2002-2016)
Adults age 65 and over who ever received pneumococcal vaccination	-1.53	0.002	0	NHIS	18 (2000-2017)
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-1.52	0.005	0.007	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional to exercise more	-1.52	0.003	0	MEPS	15 (2002-2016)
Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	-1.38	0.005	0.015	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-1.34	0.004	0.009	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-1.31	0.003	0.001	MEPS	15 (2002-2016)
Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-1.3	0.003	0.001	MEPS	15 (2002-2016)
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-1.16	0.005	0.048	MEPS	15 (2002-2016)
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-1.12	0.006	0.081	NSDUH	9 (2008-2016)

Not Changing for Low-Income People

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Children ages 5-17 with untreated dental caries	-2.68	0.016	0.23	NHANES	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg	-2.6	0.019	0.293	NHANES	13 (2004-2016)
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-1.39	0.008	0.122	NHIS	9 (2009-2017)
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-1.29	0.014	0.421	NHIS	15 (2003-2017)
Adults with obesity age 20 and over who had been told by a doctor or health professional that they were overweight	-1.22	0.006	0.159	NHANES	13 (2004-2016)
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-0.94	0.01	0.364	MEPS	9 (2008-2016)
Adults with hypertension with blood pressure less than 140/90 mm/Hg	-0.93	0.001	0.009	NHANES	13 (2004-2016)
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-0.81	0.015	0.6	NSDUH	9 (2008-2016)
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-0.78	0.004	0.094	MEPS	15 (2002-2016)

Appendix A: List of Measures and Summary of Results for Figures

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-0.75	0.004	0.112	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-0.72	0.002	0.002	MEPS	15 (2002-2016)
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-0.67	0.004	0.081	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-0.57	0.002	0.021	MEPS	15 (2002-2016)
Children with obesity 2-19 years of age who had been told by a doctor or health professional that they were overweight	-0.56	0.003	0.226	NHANES	13 (2004-2016)
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-0.55	0.001	0.002	NHIS	18 (2000-2017)
Adults age 40 and over with diabetes whose condition was diagnosed	-0.5	0.009	0.629	NHANES	13 (2004-2016)
Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	-0.46	0.004	0.247	NHIS	8 (2010-2017)
Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	-0.4	0.012	0.745	NIS	16 (2001-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-0.38	0.004	0.404	MEPS	6 (2011-2016)
Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	-0.35	0.006	0.56	NIS	16 (2001-2016)
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-0.34	0.005	0.482	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	-0.13	0.002	0.613	MEPS	15 (2002-2016)
Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	-0.07	0.006	0.909	NIS	16 (2001-2016)
Adults with a dental visit in the calendar year	-0.04	0.001	0.468	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	0.01	0.007	0.984	MEPS	15 (2002-2016)
Adults who had a preventive dental service in the calendar year	0.22	0.001	0.018	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	0.37	0.009	0.675	MEPS	15 (2002-2016)
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	0.59	0.002	0.007	MEPS	14 (2003-2016)
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	0.73	0.009	0.413	MEPS	15 (2002-2016)

Worsening for Low-Income People

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Women ages 50-74 who received a mammogram in the last 2 years	1.2	0.006	0.084	NHIS	16 (2000-2015)
Children ages 2-19 with obesity	1.67	0.003	0.034	NHANES	13 (2004-2016)
Women ages 21-65 who received a Pap smear in the last 3 years	2.13	0.005	0.018	NHIS	16 (2000-2015)
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	6.92	0.005	0	HCUP	12 (2005-2016)
Emergency department visits involving opioid-related diagnoses per 100,000 population	9.87	0.007	0	HCUP_NEDS	12 (2005-2016)

Improving for Middle-Income People

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-19.6	0.028	0	NIS_TEEN	9 (2008-2016)
Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-17.48	0.028	0	NIS_TEEN	9 (2008-2016)
Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-15.49	0.011	0	NCDB	10 (2005-2014)

Appendix A: List of Measures and Summary of Results for Figures

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	-14.57	0.012	0	NIS_TEEN	9 (2008-2016)
Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	-13.11	0.013	0	NIS_TEEN	9 (2008-2016)
Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-9.84	0.011	0	NCDB	10 (2005-2014)
Adolescent males ages 16-17 who received 3 or more doses of human papillomavirus (HPV) vaccine	-7.46	0.001	0	NIS_TEEN	5 (2012-2016)
Adolescent males ages 13-15 who received 3 or more doses of human papillomavirus (HPV) vaccine	-6.5	0.016	0.024	NIS_TEEN	5 (2012-2016)
Adults who received a blood cholesterol measurement in the last 5 years	-6.17	0.013	0.037	NHIS	15 (2003-2017)
Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy)	-6.13	0.013	0.002	NCDB	10 (2005-2014)
Children who had their height and weight measured by a health provider within the past 2 years	-5.73	0.006	0	MEPS	15 (2002-2016)
Adults age 65 and over who received in the calendar year at least 1 of 11 prescription medications that should be avoided in older adults	-5.37	0.014	0.003	MEPS	15 (2002-2016)
Children ages 19-35 months who received 1 or more doses of varicella vaccine	-4.91	0.01	0	NIS	16 (2001-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-4.78	0.007	0	MEPS	15 (2002-2016)
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-4.73	0.004	0	MEPS	15 (2002-2016)
Adolescents females ages 16-17 who received 3 or more doses human papillomavirus vaccine	-4.56	0.004	0	NIS_TEEN	9 (2008-2016)
Children ages 0-17 with wellness checkup in the past 12 months	-4.03	0.004	0	NHIS	18 (2000-2017)
Infants born in the calendar year who received breastfeeding through 3 months	-3.97	0.01	0.011	NIS	7 (2009-2015)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-3.81	0.005	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-3.8	0.005	0	MEPS	15 (2002-2016)
Children ages 3-5 who ever had their vision checked by a health provider	-3.56	0.005	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-3.42	0.006	0	MEPS	15 (2002-2016)
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-2.92	0.006	0	MEPS	15 (2002-2016)
Adolescents females ages 13-15 who received 3 or more doses human papillomavirus vaccine	-2.82	0.006	0.001	NIS_TEEN	9 (2008-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-2.77	0.007	0.017	MEPS	6 (2011-2016)
Adults with obesity age 20 and over who had been told by a doctor or health professional that they were overweight	-2.77	0.003	0.015	NHANES	13 (2004-2016)
Adults age 65 and over who received an influenza vaccination in the last flu season	-2.64	0.004	0	NHIS	13 (2005-2017)
Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-2.49	0.005	0	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-2.42	0.003	0	MEPS	15 (2002-2016)
Children ages 6 months to 17 years who received influenza vaccination in the last flu season	-2.4	0.007	0.012	NHIS	8 (2010-2017)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-2.36	0.003	0.001	MEPS	6 (2011-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-2.27	0.002	0	MEPS	15 (2002-2016)
Children ages 19-35 months who received 3 or more doses of polio vaccine	-2.25	0.007	0.006	NIS	16 (2001-2016)
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-2.23	0.005	0	MEPS	15 (2002-2016)
Adults ages 18 and over who received influenza vaccination in the last flu season	-1.81	0.003	0	NHIS	8 (2010-2017)
Adults age 65 and over who ever received pneumococcal vaccination	-1.68	0.002	0	NHIS	18 (2000-2017)
Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	-1.53	0.005	0.009	MEPS	15 (2002-2016)
Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-1.32	0.003	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-1.31	0.003	0.007	MEPS	6 (2011-2016)
Adults with obesity who ever received advice from a health professional to exercise more	-1.28	0.003	0	MEPS	15 (2002-2016)
Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-1.21	0.002	0	MEPS	15 (2002-2016)

Not Changing for Middle-Income People

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults age 40 and over with diabetes whose condition was diagnosed	-2.31	0.008	0.1	NHANES	13 (2004-2016)
Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg	-2.26	0.014	0.253	NHANES	13 (2004-2016)
Children ages 5-17 with untreated dental caries	-1.39	0.005	0.101	NHANES	15 (2002-2016)
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-1.09	0.012	0.433	NHIS	15 (2003-2017)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-0.94	0.005	0.075	MEPS	15 (2002-2016)
Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	-0.88	0.005	0.133	NHIS	8 (2010-2017)
Adults with hypertension with blood pressure less than 140/90 mm/Hg	-0.77	0.003	0.123	NHANES	13 (2004-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-0.77	0.002	0.001	MEPS	15 (2002-2016)
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-0.66	0.003	0.064	MEPS	15 (2002-2016)
Children with obesity 2-19 years of age who had been told by a doctor or health professional that they were overweight	-0.57	0.007	0.504	NHANES	13 (2004-2016)
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-0.56	0.001	0	NHIS	18 (2000-2017)
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-0.53	0.003	0.125	MEPS	15 (2002-2016)
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-0.5	0.003	0.099	NSDUH	9 (2008-2016)
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-0.48	0.006	0.474	NSDUH	9 (2008-2016)
Children ages 2-17 who had a dental visit in the calendar year	-0.46	0.002	0.035	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-0.42	0.006	0.463	MEPS	15 (2002-2016)
Children ages 2-19 with obesity	-0.4	0.007	0.605	NHANES	13 (2004-2016)
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-0.33	0.007	0.657	MEPS	9 (2008-2016)
Children ages 2-17 who had a preventive dental service in the calendar year	-0.31	0.002	0.093	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-0.26	0.002	0.268	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	0.11	0.002	0.669	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	0.14	0.008	0.866	NHIS	9 (2009-2017)
Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	0.15	0.005	0.778	NIS	16 (2001-2016)
Adults with a dental visit in the calendar year	0.24	0.001	0	MEPS	15 (2002-2016)
Adults who had a preventive dental service in the calendar year	0.52	0.001	0	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	0.54	0.004	0.25	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	0.69	0.007	0.312	MEPS	15 (2002-2016)
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	0.7	0.002	0.009	MEPS	14 (2003-2016)
Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	0.96	0.011	0.408	NIS	16 (2001-2016)
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	0.96	0.007	0.221	MEPS	15 (2002-2016)

Worsening for Middle-Income People

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Women ages 50-74 who received a mammogram in the last 2 years	1.47	0.003	0.007	NHIS	16 (2000-2015)
Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	1.58	0.007	0.036	NIS	16 (2001-2016)
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	1.72	0.009	0.08	MEPS	15 (2002-2016)
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	1.73	0.003	0	MEPS	15 (2002-2016)
Women ages 21-65 who received a Pap smear in the last 3 years	2.92	0.004	0.001	NHIS	16 (2000-2015)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	6.28	0.005	0	HCUP	12 (2005-2016)
Emergency department visits involving opioid-related diagnoses per 100,000 population	9.74	0.008	0	HCUP_NEDS	12 (2005-2016)

Improving for High-Income People

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-21.77	0.035	0	NIS_TEEN	9 (2008-2016)
Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-18.12	0.043	0.002	NIS_TEEN	9 (2008-2016)
Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-14.96	0.011	0	NCDB	10 (2005-2014)
Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	-14.95	0.017	0	NIS_TEEN	9 (2008-2016)
Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	-12.8	0.017	0	NIS_TEEN	9 (2008-2016)
Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-10.52	0.008	0	NCDB	10 (2005-2014)
Adolescent males ages 16-17 who received 3 or more doses of human papillomavirus (HPV) vaccine	-9.82	0.012	0.004	NIS_TEEN	5 (2012-2016)
Adolescent males ages 13-15 who received 3 or more doses of human papillomavirus (HPV) vaccine	-7.34	0.004	0	NIS_TEEN	5 (2012-2016)
Adults who received a blood cholesterol measurement in the last 5 years	-6.18	0.014	0.043	NHIS	15 (2003-2017)

Appendix A: List of Measures and Summary of Results for Figures

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy)	-6.17	0.017	0.005	NCDB	10 (2005-2014)
Children ages 19-35 months who received 1 or more doses of varicella vaccine	-5.93	0.008	0	NIS	16 (2001-2016)
Children ages 0-17 with wellness checkup in the past 12 months	-5.56	0.003	0	NHIS	18 (2000-2017)
Adolescents females ages 16-17 who received 3 or more doses human papillomavirus vaccine	-5.34	0.011	0.001	NIS_TEEN	9 (2008-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-5.21	0.006	0	MEPS	15 (2002-2016)
Children who had their height and weight measured by a health provider within the past 2 years	-5.11	0.008	0	MEPS	15 (2002-2016)
Adults age 65 and over who received in the calendar year at least 1 of 11 prescription medications that should be avoided in older adults	-4.54	0.014	0.01	MEPS	14 (2002-2015)
Infants born in the calendar year who received breastfeeding through 3 months	-4.39	0.01	0.006	NIS	7 (2009-2015)
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-4.23	0.006	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-4.2	0.004	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-4.14	0.005	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-3.59	0.004	0	MEPS	15 (2002-2016)
Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-3.4	0.005	0	MEPS	15 (2002-2016)
Children ages 19-35 months who received 3 or more doses of polio vaccine	-2.85	0.008	0.003	NIS	16 (2001-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-2.81	0.004	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-2.44	0.006	0.019	MEPS	6 (2011-2016)
Adolescents females ages 13-15 who received 3 or more doses human papillomavirus vaccine	-2.42	0.005	0.002	NIS_TEEN	9 (2008-2016)
Adults age 65 and over who received an influenza vaccination in the last flu season	-2.38	0.007	0.004	NHIS	13 (2005-2017)
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-2.18	0.006	0.002	MEPS	15 (2002-2016)
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-2.14	0.007	0.011	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-2.1	0.002	0	MEPS	15 (2002-2016)
Children ages 3-5 who ever had their vision checked by a health provider	-2.08	0.007	0.008	MEPS	15 (2002-2016)
Adults age 65 and over who ever received pneumococcal vaccination	-2	0.004	0	NHIS	18 (2000-2017)
Adults ages 18 and over who received influenza vaccination in the last flu season	-1.78	0.006	0.021	NHIS	8 (2010-2017)
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-1.64	0.008	0.085	NSDUH	9 (2008-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-1.46	0.003	0.008	MEPS	6 (2011-2016)
Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	-1.21	0.005	0.034	MEPS	15 (2002-2016)

Not Changing for High-Income People

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults age 40 and over with diabetes whose condition was diagnosed	-4.89	0.054	0.45	NHANES	13 (2004-2016)
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-1.85	0.011	0.196	NHIS	15 (2003-2017)
Children ages 2-19 with obesity	-1.3	0.011	0.352	NHANES	13 (2004-2016)
Adults with obesity age 20 and over who had been told by a doctor or health professional that they were overweight	-1.15	0.007	0.236	NHANES	13 (2004-2016)
Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-0.99	0.003	0.005	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional to exercise more	-0.8	0.002	0.001	MEPS	15 (2002-2016)
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-0.74	0.001	0	NHIS	18 (2000-2017)
Adults with hypertension with blood pressure less than 140/90 mm/Hg	-0.7	0.002	0.095	NHANES	13 (2004-2016)
Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-0.62	0.003	0.042	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg	-0.6	0.018	0.767	NHANES	13 (2004-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-0.51	0.001	0.013	MEPS	6 (2011-2016)
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-0.48	0.008	0.54	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-0.48	0.004	0.258	MEPS	15 (2002-2016)
Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	-0.44	0.009	0.652	NHIS	8 (2010-2017)
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-0.44	0.002	0.086	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-0.39	0.002	0.088	MEPS	15 (2002-2016)
Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	-0.3	0.007	0.689	NIS	16 (2001-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	-0.21	0.006	0.725	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-0.07	0.002	0.719	MEPS	15 (2002-2016)
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	0.05	0.01	0.962	NHIS	9 (2009-2017)
Adults with a dental visit in the calendar year	0.17	0.001	0.048	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	0.22	0.01	0.831	MEPS	9 (2008-2016)
Children ages 5-17 with untreated dental caries	0.24	0.001	0.206	NHANES	15 (2002-2016)
Children ages 2-17 who had a preventive dental service in the calendar year	0.35	0.003	0.297	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	0.46	0.005	0.345	MEPS	15 (2002-2016)
Adults who had a preventive dental service in the calendar year	0.5	0.001	0	MEPS	15 (2002-2016)
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	0.55	0.012	0.65	MEPS	15 (2002-2016)
Children ages 2-17 who had a dental visit in the calendar year	0.66	0.003	0.067	MEPS	15 (2002-2016)
Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	1.1	0.012	0.375	NIS	16 (2001-2016)
Children ages 6 months to 17 years who received influenza vaccination in the last flu season	1.19	0.026	0.667	NHIS	8 (2010-2017)
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	1.24	0.008	0.134	MEPS	15 (2002-2016)
Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	1.37	0.011	0.244	NIS	16 (2001-2016)
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	2.29	0.017	0.227	NSDUH	9 (2008-2016)

Worsening for High-Income People

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	1.52	0.006	0.018	MEPS	15 (2002-2016)
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	1.68	0.002	0	MEPS	14 (2003-2016)
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	1.73	0.006	0.015	MEPS	15 (2002-2016)
Women ages 50-74 who received a mammogram in the last 2 years	1.99	0.008	0.058	NHIS	16 (2000-2015)
Women ages 21-65 who received a Pap smear in the last 3 years	3.65	0.007	0.008	NHIS	16 (2000-2015)
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	4.48	0.007	0	MEPS	15 (2002-2016)
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	5.62	0.005	0	HCUP	12 (2005-2016)
Emergency department visits involving opioid-related diagnoses per 100,000 population	10.54	0.008	0	HCUP_NEDS	12 (2005-2016)

Measures included in Figure 109: Number and percentage of quality measures with disparity at baseline for which disparities related to income were improving, not changing, or worsening, 2000 through 2014, 2015, 2016, or 2017

Poor People vs. High-Income People

Disparities Between Poor People and High-Income People Improving	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Adolescents females ages 13-15 who received 3 or more doses human papillomavirus vaccine	-1.7	-3.22	NIS_TEEN	2008-2016
Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	-0.2	-1.36	NHIS	2010-2017
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	0.5	-1.27	MEPS	2002-2016
Children ages 2-17 who had a preventive dental service in the calendar year	0.2	-0.86	MEPS	2002-2016
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	0.2	-0.84	MEPS	2002-2016
Children ages 2-17 who had a dental visit in the calendar year	0.2	-0.81	MEPS	2002-2016
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	0.3	-0.75	MEPS	2002-2016
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	0.9	-0.47	MEPS	2002-2016

Disparities Between Poor People and High-Income People Not Changing	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	-4.5	-5.59	NIS_TEEN	2008-2016
Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-4.0	-5.18	NIS_TEEN	2008-2016
Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	-3.7	-4.75	NIS_TEEN	2008-2016
Adolescents females ages 16-17 who received 3 or more doses human papillomavirus vaccine	-3.1	-3.98	NIS_TEEN	2009-2016
Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-2.8	-3.04	NCDB	2005-2014

Disparities Between Poor People and High-Income People Not Changing	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Adults ages 18 and over who received influenza vaccination in the last flu season	-1.0	-1.76	NHIS	2010-2017
Adults who received a blood cholesterol measurement in the last 5 years	-0.9	-1.45	NHIS	2003-2017
Infants born in the calendar year who received breastfeeding through 3 months	-2.1	-1.41	NIS	2009-2015
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-1.2	-1.26	MEPS	2002-2016
Adults who had a doctor’s office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-0.7	-1.25	MEPS	2011-2016
Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-0.9	-1.22	NCDB	2005-2014
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-1.1	-1.14	MEPS	2002-2016
Children ages 0-17 with wellness checkup in the past 12 months	-0.9	-1.10	NHIS	2000-2017
Children ages 3-5 who ever had their vision checked by a health provider	-0.7	-0.95	MEPS	2002-2016
Adults age 65 and over who received an influenza vaccination in the last flu season	-0.7	-0.92	NHIS	2005-2017
Adults with obesity who ever received advice from a health professional to exercise more	-0.3	-0.87	MEPS	2002-2016
Children ages 19-35 months who received 1 or more doses of varicella vaccine	-0.6	-0.75	NIS	2001-2016
Children ages 5-17 with untreated dental caries	0.0	-0.68	NHANES	2002-2016
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-0.5	-0.64	MEPS	2002-2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-0.2	-0.61	MEPS	2002-2016
Adults age 65 and over who ever received pneumococcal vaccination	-0.7	-0.56	NHIS	2000-2017
Children 0-40 lb for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	-0.4	-0.55	MEPS	2002-2016
Children who had their height and weight measured by a health provider within the past 2 years	-0.3	-0.55	MEPS	2002-2016

Disparities Between Poor People and High-Income People Not Changing	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-0.1	-0.53	MEPS	2002-2016
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-0.3	-0.48	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-0.4	-0.44	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-0.3	-0.39	MEPS	2002-2016
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-0.1	-0.34	MEPS	2002-2016
Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-0.3	-0.31	MEPS	2002-2016
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	0.0	-0.30	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-0.2	-0.24	MEPS	2002-2016
Children ages 19-35 months who received 3 or more doses of polio vaccine	-0.2	-0.23	NIS	2001-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-0.2	-0.23	MEPS	2002-2016
Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	0.1	-0.12	NIS	2001-2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-0.1	-0.11	NHIS	2003-2017
Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	0.0	-0.10	NIS	2001-2016
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	0.8	-0.05	NSDUH	2008-2016
Adults with a dental visit in the calendar year	0.1	-0.02	MEPS	2002-2016
Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	0.1	0.03	NIS	2001-2016
Adults who had a preventive dental service in the calendar year	0.2	0.05	MEPS	2002-2016

Disparities Between Poor People and High-Income People Not Changing	Average Annual Change – Reference	Average Annual Change - Comparison	Data Source	Data Years
Women ages 50-74 who received a mammogram in the last 2 years	0.3	0.18	NHIS	2000-2015
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	0.1	0.26	MEPS	2002-2016
Children ages 2-19 with obesity	-0.2	0.26	NHANES	2004-2016
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	1.2	0.52	MEPS	2003-2016
Women ages 21-65 who received a Pap smear in the last 3 years	0.3	0.63	NHIS	2000-2015

Disparities Between Poor People and High-Income People Worsening	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Emergency department visits involving opioid-related diagnoses per 100,000 population	10.2	18.00	HCUP_NEDS	2005-2016
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	7.9	15.51	HCUP	2005-2016

Low-Income People vs. High-Income People

Disparities Between Low-Income People and High-Income People Improving	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Children ages 6 months to 17 years who received influenza vaccination in the last flu season	0.9	-1.94	NHIS	2010-2017
Children ages 2-17 who had a preventive dental service in the calendar year	0.2	-1.02	MEPS	2002-2016
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	0.2	-0.95	MEPS	2002-2016
Children ages 2-17 who had a dental visit in the calendar year	0.2	-0.92	MEPS	2002-2016
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	0.9	-0.10	MEPS	2002-2016

Disparities Between Low-Income People and High-Income People Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Adolescents ages 16-17 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-6.5	-7.57	NIS_TEEN	2008-2016
Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	-4.5	-5.92	NIS_TEEN	2008-2016
Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-4.0	-4.88	NIS_TEEN	2008-2016
Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	-3.7	-4.65	NIS_TEEN	2008-2016
Adolescents females ages 16-17 who received 3 or more doses human papillomavirus vaccine	-3.1	-3.80	NIS_TEEN	2008-2016
Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-2.8	-3.15	NCDB	2005-2014
Adolescents females ages 13-15 who received 3 or more doses human papillomavirus vaccine	-1.7	-2.39	NIS_TEEN	2008-2016
Infants born in the calendar year who received breastfeeding through 3 months	-2.1	-1.63	NIS	2009-2015
Adults who received a blood cholesterol measurement in the last 5 years	-0.9	-1.50	NHIS	2003-2017
Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg	-0.3	-1.48	NHANES	2004-2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-1.1	-1.42	MEPS	2002-2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-1.2	-1.38	MEPS	2002-2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-0.7	-1.16	MEPS	2011-2016
Adults ages 18 and over who received influenza vaccination in the last flu season	-1.0	-1.06	NHIS	2010-2017
Children ages 3-5 who ever had their vision checked by a health provider	-0.7	-1.04	MEPS	2002-2016
Children ages 0-17 with wellness checkup in the past 12 months	-0.9	-1.04	NHIS	2000-2017

Appendix A: List of Measures and Summary of Results for Figures

Disparities Between Low-Income People and High-Income People Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-0.9	-0.83	NCDB	2005-2014
Adults age 65 and over who received an influenza vaccination in the last flu season	-0.7	-0.81	NHIS	2005-2017
Children ages 19-35 months who received 1 or more doses of varicella vaccine	-0.6	-0.81	NIS	2001-2016
Adults with obesity who ever received advice from a health professional to exercise more	-0.3	-0.67	MEPS	2002-2016
Children ages 5-17 with untreated dental caries	0.0	-0.66	NHANES	2002-2016
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-0.1	-0.66	MEPS	2002-2016
Adults age 65 and over who ever received pneumococcal vaccination	-0.7	-0.66	NHIS	2000-2017
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-0.5	-0.57	MEPS	2002-2016
Children who had their height and weight measured by a health provider within the past 2 years	-0.3	-0.56	MEPS	2002-2016
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	0.5	-0.49	MEPS	2002-2016
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	0.0	-0.39	MEPS	2002-2016
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-0.3	-0.39	MEPS	2002-2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-0.2	-0.39	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-0.4	-0.36	MEPS	2002-2016
Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	-0.2	-0.27	NHIS	2010-2017
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-0.3	-0.25	MEPS	2002-2016
Children ages 19-35 months who received 3 or more doses of polio vaccine	-0.2	-0.24	NIS	2001-2016

Disparities Between Low-Income People and High-Income People Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-0.3	-0.22	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-0.2	-0.21	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-0.2	-0.16	MEPS	2002-2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-0.1	-0.15	NHIS	2003-2017
Adults age 65 and over who received in the calendar year at least 1 of 11 prescription medications that should be avoided in older adults	-0.1	-0.13	MEPS	2002-2016
Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	0.0	-0.08	NIS	2001-2016
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	0.3	-0.07	MEPS	2002-2016
Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	0.1	-0.05	NIS	2001-2016
Adults with a dental visit in the calendar year	0.1	-0.04	MEPS	2002-2016
Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	0.1	-0.02	NIS	2001-2016
Adults who had a preventive dental service in the calendar year	0.2	0.16	MEPS	2002-2016
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	0.1	0.21	MEPS	2002-2016
Women ages 50-74 who received a mammogram in the last 2 years	0.3	0.43	NHIS	2000-2015
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	1.2	0.44	MEPS	2003-2016
Women ages 21-65 who received a Pap smear in the last 3 years	0.3	0.49	NHIS	2000-2015

Disparities Between Low-Income People and High-Income People Worsening	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Emergency department visits involving opioid-related diagnoses per 100,000 population	10.2	13.59	HCUP_NEDS	2005-2016
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	7.9	13.07	HCUP	2005-2016

Middle-Income People vs. High-Income People

Disparities Between Middle-Income People and High-Income People Improving	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
None				

Disparities Between Middle-Income People and High-Income People Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Adolescents ages 16-17 who received 1 or more doses of meningococcal conjugate vaccine	-4.5	-5.54	NIS_TEEN	2008-2016
Adolescents ages 13-15 who received 1 or more doses of meningococcal conjugate vaccine	-3.7	-4.70	NIS_TEEN	2008-2016
Adolescents ages 13-15 who received 1 or more doses of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap) since the age of 10 years	-4.0	-4.68	NIS_TEEN	2008-2016
Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-2.8	-2.98	NCDB	2005-2014
Infants born in the calendar year who received breastfeeding through 3 months	-2.1	-2.10	NIS	2009-2015
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-1.2	-1.44	MEPS	2002-2016
Children ages 3-5 who ever had their vision checked by a health provider	-0.7	-1.40	MEPS	2002-2016
Children ages 6 months to 17 years who received influenza vaccination in the last flu season	0.9	-1.34	NHIS	2010-2017
Adults who received a blood cholesterol measurement in the last 5 years	-0.9	-1.23	NHIS	2003-2017
Adults age 40 and over with diagnosed diabetes with blood pressure less than 130/80 mm Hg	-0.3	-1.17	NHANES	2004-2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-1.1	-1.15	MEPS	2002-2016
Adults ages 18 and over who received influenza vaccination in the last flu season	-1.0	-1.08	NHIS	2010-2017
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-0.7	-0.95	MEPS	2011-2016
Adults with obesity age 20 and over who had been told by a doctor or health professional that they were overweight	-0.3	-0.91	NHANES	2004-2016

Disparities Between Middle-Income People and High-Income People Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Children ages 0-17 with wellness checkup in the past 12 months	-0.9	-0.91	NHIS	2000-2017
Children ages 19-35 months who received 1 or more doses of varicella vaccine	-0.6	-0.70	NIS	2001-2016
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	0.2	-0.59	MEPS	2002-2016
Children who had their height and weight measured by a health provider within the past 2 years	-0.3	-0.54	MEPS	2002-2016
Adults with obesity who ever received advice from a health professional to exercise more	-0.3	-0.53	MEPS	2002-2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-0.2	-0.52	MEPS	2002-2016
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-0.3	-0.49	MEPS	2002-2016
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-0.4	-0.49	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-0.4	-0.47	MEPS	2002-2016
Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	-0.2	-0.47	NHIS	2010-2017
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-0.3	-0.34	MEPS	2002-2016
Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-0.3	-0.32	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-0.2	-0.28	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-0.2	-0.27	MEPS	2002-2016
Children ages 5-17 with untreated dental caries	0.0	-0.22	NHANES	2002-2016
Children ages 2-17 who had a dental visit in the calendar year	0.2	-0.22	MEPS	2002-2016
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	0.5	-0.19	MEPS	2002-2016

Disparities Between Middle-Income People and High-Income People Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	0.8	-0.17	NSDUH	2008-2016
Children ages 19-35 months who received 3 or more doses of polio vaccine	-0.2	-0.17	NIS	2001-2016
Children ages 2-17 who had a preventive dental service in the calendar year	0.2	-0.17	MEPS	2002-2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-0.1	-0.10	NHIS	2003-2017
Children ages 2-19 with obesity	-0.2	-0.07	NHANES	2004-2016
Children ages 19-35 months who received 4 or more doses of diphtheria-tetanus-pertussis vaccine	0.0	0.02	NIS	2001-2016
Children ages 19-35 months who received 3 or more doses of hepatitis B vaccine	0.1	0.08	NIS	2001-2016
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	0.9	0.09	MEPS	2002-2016
Children ages 19-35 months who received 1 or more doses of measles-mumps-rubella vaccine	0.1	0.13	NIS	2001-2016
Adults with a dental visit in the calendar year	0.1	0.17	MEPS	2002-2016
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-0.1	0.23	MEPS	2002-2016
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	0.1	0.28	MEPS	2002-2016
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	0.3	0.32	MEPS	2002-2016
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	0.4	0.32	MEPS	2002-2016
Adults who had a preventive dental service in the calendar year	0.2	0.32	MEPS	2002-2016
Women ages 50-74 who received a mammogram in the last 2 years	0.3	0.40	NHIS	2000-2015
Women ages 21-65 who received a Pap smear in the last 3 years	0.3	0.47	NHIS	2000-2015
Emergency department visits involving opioid-related diagnoses per 100,000 population	10.2	11.66	HCUP_NEDS	2005-2016

Disparities Between Middle-Income People and High-Income People Worsening	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	7.9	10.57	HCUP	2005-2016

APPENDIX A. LIST OF MEASURES AND SUMMARY OF RESULTS FOR FIGURES

A.5. Disparities: Insurance Status

Measures included in Figure 116: Number and percentage of quality measures for which insurance groups experienced better, same, or worse quality of care compared with reference group (privately insured), 2015, 2016, or 2017

Publicly Insured vs. Privately Insured

Measures for Publicly Insured People Better Than Privately Insured People	Relative Difference	Z Score	Data Source	Data Year
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-32.58	-5.46	MEPS	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, adults	-16.13	-10.40	HCUP	2016
Deaths per 1,000 adult hospital admissions with congestive heart failure	-49.82	-12.50	HCUP	2016
Deaths per 1,000 adult hospital admissions with pneumonia	-34.00	-8.71	HCUP	2016
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-23.10	-3.20	NHIS	2017
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-24.53	-2.68	MEPS	2016
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-22.43	-6.29	MEPS	2016
Adults with obesity who ever received advice from a health professional to exercise more	-13.95	-2.81	MEPS	2016
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-13.42	-6.25	NHIS	2017
Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	-54.51	-35.20	HCUP	2016
Obstetric trauma per 1,000 instrument-assisted deliveries	-42.13	-17.90	HCUP	2016
Adults with limited English proficiency and usual source of care (USC) and the USC had language assistance	-63.64	-2.84	MEPS	2016

Measures for Publicly Insured People Same as Privately Insured People	Relative Difference	Z Score	Data Source	Data Year
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-8.11	-0.94	MEPS	2016
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	20.73	1.63	MEPS	2016

Appendix A: List of Measures and Summary of Results for Figures

Measures for Publicly Insured People Same as Privately Insured People	Relative Difference	Z Score	Data Source	Data Year
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children	3.76	1.08	HCUP	2016
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-6.70	-0.68	MEPS	2016
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	-2.49	-0.91	MEPS	2016
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	-2.03	-0.16	MEPS	2016
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	8.66	0.52	MEPS	2016
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-5.01	-1.33	MEPS	2016
Children ages 3-5 who ever had their vision checked by a health provider	-3.30	-0.33	MEPS	2016
Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-0.64	-0.15	MEPS	2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	1.75	0.17	NHIS	2017
Children ages 6 months to 17 years who received influenza vaccination in the last flu season	2.91	0.61	NHIS	2017
Adults ages 18 and over who received influenza vaccination in the last flu season	3.09	1.15	NHIS	2017
Children 0-40 lb for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	4.19	0.42	MEPS	2016
Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	5.19	0.85	NHIS	2017
Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	7.35	1.38	MEPS	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	7.72	2.19	MEPS	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	9.82	2.39	MEPS	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	10.79	1.94	MEPS	2016
Children who had their height and weight measured by a health provider within the past 2 years	22.03	1.51	MEPS	2016

Measures for Publicly Insured People Same as Privately Insured People	Relative Difference	Z Score	Data Source	Data Year
Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults	-25.00	-0.35	HCUP	2016
Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults	-11.76	-1.41	HCUP	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children	-3.13	-0.20	HCUP	2016
Birth trauma - injury to neonate per 1,000 selected live births	8.00	1.46	HCUP	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults	9.38	1.54	HCUP	2016
Adults with limited English proficiency who had a usual source of care	-11.11	-1.01	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-6.07	-2.23	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-2.67	-1.28	MEPS	2016

Measures for Publicly Insured People Worse Than Privately Insured People	Relative Difference	Z Score	Data Source	Data Year
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	87.50	4.14	MEPS	2016
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	11.69	1.99	MEPS	2016
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	29.14	4.18	MEPS	2016
Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair	60.29	2.35	HCUP	2016
Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over	41.43	3.71	HCUP	2016
Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over	31.10	5.18	HCUP	2016
Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI)	25.19	6.29	HCUP	2016
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	21.05	2.13	MEPS	2016
Women ages 50-74 who received a mammogram in the last 2 years	61.21	5.88	NHIS	2015
Women ages 21-65 who received a Pap smear in the last 3 years	46.21	4.99	NHIS	2015
Infants born in the calendar year who received breastfeeding through 3 months	44.47	9.89	NIS	2015

Appendix A: List of Measures and Summary of Results for Figures

Measures for Publicly Insured People Worse Than Privately Insured People	Relative Difference	Z Score	Data Source	Data Year
Adults who had a preventive dental service in the calendar year	38.42	17.36	MEPS	2016
Adults with a dental visit in the calendar year	37.58	20.33	MEPS	2016
Children ages 2-17 who had a dental visit in the calendar year	29.90	6.47	MEPS	2016
Children ages 0-17 with wellness checkup in the past 12 months	22.13	2.70	NHIS	2017
Children ages 2-17 who had a preventive dental service in the calendar year	20.28	5.23	MEPS	2016
Adults who received a blood cholesterol measurement in the last 5 years	19.30	2.46	NHIS	2017
Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults	84.39	12.55	HCUP	2016
Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults	81.61	11.34	HCUP	2016
Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions	75.00	4.24	HCUP	2016
Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults	51.06	3.58	HCUP	2016
Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults	42.86	3.15	HCUP	2016
Deaths per 1,000 hospital admissions with expected low-mortality	33.33	2.12	HCUP	2016
Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults	29.64	6.62	HCUP	2016
Postoperative hemorrhage or hematoma with surgical drainage or evacuation per 1,000 surgical hospital discharges, adults	24.77	6.57	HCUP	2016
Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions	12.66	5.03	HCUP	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	142.33	6.75	MEPS	2016
Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	137.65	9.00	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	123.80	6.92	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	116.92	6.07	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	64.77	5.29	MEPS	2016

Measures for Publicly Insured People Worse Than Privately Insured People	Relative Difference	Z Score	Data Source	Data Year
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	39.23	4.37	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	33.33	5.53	MEPS	2016

Uninsured vs. Privately Insured

Measures for Uninsured People Better Than Privately Insured People	Relative Difference	Z Score	Data Source	Data Year
Adults with limited English proficiency and usual source of care (USC) and the USC had language assistance	-76.1	-3.25	MEPS	2016
Deaths per 1,000 adult hospital admissions with congestive heart failure	-47.3	-8.95	HCUP	2016
Deaths per 1,000 adult hospital admissions with pneumonia	-44.0	-8.80	HCUP	2016
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-33.2	-4.34	MEPS	2016
Obstetric trauma per 1,000 instrument-assisted deliveries	-31.7	-5.76	HCUP	2016
Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults	-29.4	-3.54	HCUP	2016
Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	-24.5	-7.48	HCUP	2016
Postoperative hemorrhage or hematoma with surgical drainage or evacuation per 1,000 surgical hospital discharges, adults	-16.8	-3.34	HCUP	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, adults	-10.9	-5.98	HCUP	2016

Measures for Uninsured People Same as Privately Insured People	Relative Difference	Z Score	Data Source	Data Year
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	24.8	1.73	MEPS	2016
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	22.3	1.61	MEPS	2016
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	14.8	1.91	MEPS	2016
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	11.3	0.64	MEPS	2016
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	8.8	3.54	NHIS	2017

Measures for Uninsured People Same as Privately Insured People	Relative Difference	Z Score	Data Source	Data Year
Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults	8.5	0.42	HCUP	2016
Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults	5.7	0.99	HCUP	2016
Birth trauma - injury to neonate per 1,000 selected live births	3.3	0.50	HCUP	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	1.9	0.66	MEPS	2016
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	1.1	0.10	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-3.5	-0.83	MEPS	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults	-13.5	-1.52	HCUP	2016
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	-15.0	-0.76	MEPS	2016
Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults	-19.6	-1.05	HCUP	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children	-21.9	-0.97	HCUP	2016
Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults	-50.0	-0.89	HCUP	2016

Measures for Uninsured People Worse Than Privately Insured People	Relative Difference	Z Score	Data Source	Data Year
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	401.4	14.50	MEPS	2016
Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair	303.7	4.36	HCUP	2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	279.0	13.95	NHIS	2017
Children ages 0-17 with wellness checkup in the past 12 months	259.0	9.15	NHIS	2017
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	209.4	5.18	MEPS	2016
Women ages 50-74 who received a mammogram in the last 2 years	178.5	11.68	NHIS	2015
Women ages 21-65 who received a Pap smear in the last 3 years	171.7	12.50	NHIS	2015
Adults who received a blood cholesterol measurement in the last 5 years	152.6	11.95	NHIS	2017

Measures for Uninsured People Worse Than Privately Insured People	Relative Difference	Z Score	Data Source	Data Year
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	143.3	4.05	MEPS	2016
Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	141.2	4.71	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	127.8	3.40	MEPS	2016
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	113.1	7.57	MEPS	2016
Children who had their height and weight measured by a health provider within the past 2 years	110.2	2.65	MEPS	2016
Deaths per 1,000 hospital admissions with expected low-mortality	100.0	2.85	HCUP	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	83.0	3.76	MEPS	2016
Adults with limited English proficiency who had a usual source of care	81.1	7.93	MEPS	2016
Children ages 2-17 who had a dental visit in the calendar year	73.9	5.20	MEPS	2016
Children ages 2-17 who had a preventive dental service in the calendar year	62.7	6.69	MEPS	2016
Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over	61.0	7.91	HCUP	2016
Adults who had a preventive dental service in the calendar year	57.0	24.21	MEPS	2016
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	52.3	3.47	MEPS	2016
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	52.1	3.38	MEPS	2016
Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over	51.4	2.88	HCUP	2016
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	51.2	6.24	MEPS	2015
Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions	50.0	2.83	HCUP	2016
Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions	49.3	10.96	HCUP	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	48.7	2.90	MEPS	2016
Adults with a dental visit in the calendar year	48.4	26.16	MEPS	2016

Appendix A: List of Measures and Summary of Results for Figures

Measures for Uninsured People Worse Than Privately Insured People	Relative Difference	Z Score	Data Source	Data Year
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	46.2	5.17	NHIS	2017
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	45.7	8.78	MEPS	2016
Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	44.4	3.72	NHIS	2017
Adults with obesity who ever received advice from a health professional to exercise more	44.2	6.95	MEPS	2016
Children ages 6 months to 17 years who received influenza vaccination in the last flu season	42.6	5.87	NHIS	2017
Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI)	41.5	7.82	HCUP	2016
Adults ages 18 and over who received influenza vaccination in the last flu season	38.8	12.29	NHIS	2017
Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults	35.6	2.82	HCUP	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	35.5	2.86	MEPS	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	32.7	2.69	MEPS	2016
Infants born in the calendar year who received breastfeeding through 3 months	27.1	2.80	NIS	2015
Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults	23.7	2.31	HCUP	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	20.9	2.64	MEPS	2016
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	19.7	5.02	MEPS	2016
Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	17.7	1.97	MEPS	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children	10.3	2.02	HCUP	2016

Measures included in Figure 123: Number and percentage of all quality measures that were improving, not changing, or worsening, by insurance status, from 2000 through 2013, 2014, 2015, 2016, or 2017

Improving for Uninsured People

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-14.51	0.015	0	NCDB	10 (2005-2014)
Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-6.95	0.009	0	NCDB	10 (2005-2014)
Adults who received a blood cholesterol measurement in the last 5 years	-3.82	0.009	0.047	NHIS	15 (2003-2017)
Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy)	-3.62	0.012	0.013	NCDB	10 (2005-2014)
Children who had their height and weight measured by a health provider within the past 2 years	-3.45	0.011	0.009	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-2.58	0.006	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-2.51	0.006	0.001	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-2.5	0.011	0.047	MEPS	9 (2008-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-2.48	0.004	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-2.23	0.009	0.064	MEPS	6 (2011-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-2	0.006	0.028	MEPS	6 (2011-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-1.97	0.007	0.011	MEPS	15 (2002-2016)
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-1.86	0.008	0.029	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-1.54	0.004	0.002	MEPS	15 (2002-2016)
Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-1.53	0.004	0.004	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional to exercise more	-1.45	0.003	0	MEPS	15 (2002-2016)
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-1.39	0.005	0.009	MEPS	15 (2002-2016)
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-1.22	0.005	0.034	MEPS	15 (2002-2016)

Not Changing for Uninsured People

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Infants born in the calendar year who received breastfeeding through 3 months	-2.35	0.016	0.207	NIS	7 (2009-2015)
Children ages 0-17 with wellness checkup in the past 12 months	-0.94	0.003	0.008	NHIS	18 (2000-2017)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-0.87	0.003	0.01	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-0.81	0.002	0.004	MEPS	15 (2002-2016)
Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-0.78	0.006	0.208	MEPS	12 (2002-2013)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	-0.77	0.008	0.391	NHIS	8 (2010-2017)
Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-0.74	0.003	0.024	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-0.63	0.003	0.032	MEPS	15 (2002-2016)
Adults ages 18 and over who received influenza vaccination in the last flu season	-0.62	0.002	0.025	NHIS	8 (2010-2017)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-0.54	0.004	0.292	MEPS	6 (2011-2016)
Children ages 6 months to 17 years who received influenza vaccination in the last flu season	-0.4	0.012	0.748	NHIS	8 (2010-2017)
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-0.37	0.002	0.162	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-0.29	0.002	0.181	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-0.23	0.005	0.621	MEPS	15 (2002-2016)
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-0.2	0.005	0.713	NHIS	9 (2009-2017)
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-0.19	0.002	0.417	MEPS	14 (2002-2015)
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-0.13	0.001	0.268	NHIS	18 (2000-2017)
Children ages 2-17 who had a dental visit in the calendar year	-0.08	0.003	0.772	MEPS	15 (2002-2016)
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	0	0.006	0.994	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	0.03	0.01	0.98	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	0.09	0.001	0.505	MEPS	15 (2002-2016)
Adults with a dental visit in the calendar year	0.11	0	0.028	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Children ages 2-17 who had a preventive dental service in the calendar year	0.13	0.002	0.59	MEPS	15 (2002-2016)
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	0.23	0.003	0.499	MEPS	12 (2003-2014)
Adults who had a preventive dental service in the calendar year	0.33	0.001	0.001	MEPS	15 (2002-2016)
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	0.5	0.012	0.701	NHIS	15 (2003-2017)
Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	1.64	0.016	0.345	MEPS	8 (2002-2009)
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	1.7	0.02	0.414	MEPS	15 (2002-2016)

Worsening for Uninsured People

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Women ages 50-74 who received a mammogram in the last 2 years	1.37	0.004	0.023	NHIS	16 (2000-2015)
Women ages 21-65 who received a Pap smear in the last 3 years	2.49	0.004	0.003	NHIS	16 (2000-2015)
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	3.34	0.006	0	MEPS	15 (2002-2016)

Improving for Publicly Insured People

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-13.49	0.013	0	NCDB	10 (2005-2014)
Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-6.77	0.011	0	NCDB	10 (2005-2014)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults who received a blood cholesterol measurement in the last 5 years	-6.13	0.015	0.053	NHIS	15 (2003-2017)
Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy)	-5.06	0.016	0.013	NCDB	10 (2005-2014)
Children who had their height and weight measured by a health provider within the past 2 years	-4.92	0.005	0	MEPS	15 (2002-2016)
Children ages 0-17 with wellness checkup in the past 12 months	-3.87	0.004	0	NHIS	18 (2000-2017)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-3.64	0.006	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-3.23	0.007	0.008	MEPS	6 (2011-2016)
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-3	0.004	0	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-3	0.015	0.08	MEPS	9 (2008-2016)
Children ages 3-5 who ever had their vision checked by a health provider	-2.92	0.003	0	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-2.62	0.002	0	MEPS	15 (2002-2016)
Infants born in the calendar year who received breastfeeding through 3 months	-2.46	0.003	0	NIS	7 (2009-2015)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-2.33	0.005	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-2.25	0.006	0.002	MEPS	15 (2002-2016)

Appendix A: List of Measures and Summary of Results for Figures

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-2.25	0.007	0.005	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-2.05	0.002	0	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional to exercise more	-2.02	0.003	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-1.91	0.007	0.05	MEPS	6 (2011-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-1.71	0.004	0.001	MEPS	15 (2002-2016)
Children ages 2-17 who had a dental visit in the calendar year	-1.47	0.001	0	MEPS	15 (2002-2016)
Children ages 2-17 who had a preventive dental service in the calendar year	-1.45	0.001	0	MEPS	15 (2002-2016)
Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-1.35	0.004	0.007	MEPS	15 (2002-2016)
Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-1.33	0.002	0	MEPS	15 (2002-2016)
Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	-1.21	0.004	0.008	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-1.19	0.005	0.033	MEPS	15 (2002-2016)
Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-1.1	0.002	0	MEPS	15 (2002-2016)
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-1.08	0.004	0.017	MEPS	15 (2002-2016)

Not Changing for Publicly Insured People

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Children ages 6 months to 17 years who received influenza vaccination in the last flu season	-1.41	0.01	0.221	NHIS	8 (2010-2017)
Adults ages 18 and over who received influenza vaccination in the last flu season	-1.16	0.006	0.115	NHIS	8 (2010-2017)
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-0.93	0.002	0	NHIS	18 (2000-2017)
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	-0.88	0.009	0.363	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-0.87	0.004	0.072	MEPS	6 (2011-2016)
Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	-0.84	0.011	0.473	NHIS	8 (2010-2017)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-0.83	0.002	0	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-0.75	0.003	0.026	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-0.71	0.005	0.163	MEPS	15 (2002-2016)
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-0.59	0.006	0.309	MEPS	15 (2002-2016)
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-0.55	0.003	0.061	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-0.36	0.006	0.546	MEPS	15 (2002-2016)
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-0.16	0.016	0.929	NHIS	15 (2003-2017)
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	-0.1	0.003	0.761	MEPS	15 (2002-2016)
Adults with a dental visit in the calendar year	-0.02	0.001	0.786	MEPS	15 (2002-2016)
Adults who had a preventive dental service in the calendar year	0.22	0.001	0.119	MEPS	15 (2002-2016)

Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	0.62	0.01	0.542	MEPS	15 (2002-2016)
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	0.8	0.002	0	MEPS	14 (2003-2016)
Women ages 50-74 who received a mammogram in the last 2 years	1.43	0.011	0.267	NHIS	16 (2000-2015)
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	1.6	0.011	0.173	MEPS	15 (2002-2016)

Worsening for Publicly Insured People

Measure	Average Annual	SE	P Value	Data Source	Number of Years
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	3.58	0.01	0.019	NHIS	9 (2009-2017)
Women ages 21-65 who received a Pap smear in the last 3 years	3.77	0.011	0.025	NHIS	16 (2000-2015)

Improving for Privately Insured People

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-14.94	0.013	0	NCDB	10 (2005-2014)
Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-11.12	0.011	0	NCDB	10 (2005-2014)
Adults who received a blood cholesterol measurement in the last 5 years	-6.39	0.013	0.037	NHIS	15 (2003-2017)
Children who had their height and weight measured by a health provider within the past 2 years	-5.19	0.007	0	MEPS	15 (2002-2016)
Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy)	-4.84	0.01	0.001	NCDB	10 (2005-2014)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-4.8	0.004	0	MEPS	15 (2002-2016)
Children ages 0-17 with wellness checkup in the past 12 months	-4.74	0.003	0	NHIS	18 (2000-2017)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Infants born in the calendar year who received breastfeeding through 3 months	-4.31	0.006	0.001	NIS	7 (2009-2015)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-3.87	0.005	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-3.73	0.003	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-3.41	0.006	0.004	MEPS	6 (2011-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-3.21	0.003	0	MEPS	15 (2002-2016)
Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-2.8	0.004	0	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-2.7	0.003	0	MEPS	15 (2002-2016)
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-2.6	0.006	0.001	MEPS	15 (2002-2016)
Children ages 6 months to 17 years who received influenza vaccination in the last flu season	-2.55	0.007	0.013	NHIS	8 (2010-2017)
Children ages 3-5 who ever had their vision checked by a health provider	-2.41	0.004	0	MEPS	15 (2002-2016)
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-2.34	0.004	0	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-2.29	0.002	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-2.15	0.002	0.001	MEPS	6 (2011-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	-1.4	0.004	0.002	MEPS	15 (2002-2016)
Adults ages 18 and over who received influenza vaccination in the last flu season	-1.34	0.004	0.017	NHIS	8 (2010-2017)
Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-1.31	0.002	0	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional to exercise more	-1.08	0.002	0	MEPS	15 (2002-2016)

Not Changing for Privately Insured People

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-1.16	0.013	0.424	NHIS	15 (2003-2017)
Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-0.94	0.002	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-0.93	0.001	0.001	MEPS	6 (2011-2016)
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-0.68	0.001	0	NHIS	18 (2000-2017)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-0.55	0.002	0.004	MEPS	15 (2002-2016)
Children ages 2-17 who had a dental visit in the calendar year	-0.43	0.002	0.052	MEPS	15 (2002-2016)
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-0.39	0.002	0.131	MEPS	15 (2002-2016)
Children ages 2-17 who had a preventive dental service in the calendar year	-0.38	0.002	0.044	MEPS	15 (2002-2016)
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	-0.37	0.007	0.62	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-0.24	0.002	0.204	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-0.2	0.003	0.491	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-0.17	0.004	0.651	MEPS	15 (2002-2016)
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-0.15	0.005	0.758	MEPS	15 (2002-2016)
Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	0.05	0.006	0.933	NHIS	8 (2010-2017)
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	0.07	0.009	0.937	NHIS	9 (2009-2017)
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	0.34	0.003	0.3	MEPS	15 (2002-2016)
Adults with a dental visit in the calendar year	0.37	0.001	0	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	0.42	0.007	0.556	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	0.56	0.005	0.309	MEPS	15 (2002-2016)
Adults who had a preventive dental service in the calendar year	0.72	0.001	0	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	0.93	0.007	0.233	MEPS	9 (2008-2016)

Worsening for Privately Insured People

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	1.29	0.001	0	MEPS	14 (2003-2016)
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	1.75	0.003	0	MEPS	15 (2002-2016)

Appendix A: List of Measures and Summary of Results for Figures

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Women ages 50-74 who received a mammogram in the last 2 years	1.93	0.005	0.013	NHIS	16 (2000-2015)
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	2.09	0.005	0.001	MEPS	15 (2002-2016)
Women ages 21-65 who received a Pap smear in the last 3 years	3.31	0.003	0.001	NHIS	16 (2000-2015)

Measures Included in Figure 124: Number and percentage of quality measures with disparity at baseline for which disparities related to insurance were improving, not changing, or worsening, 2000 through 2014, 2015, 2016, or 2017

Public vs. Private

Disparities Between Publicly Insured People and Privately Insured People Improving	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
None				

Disparities Between Publicly Insured People and Privately Insured People Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	0.321	-0.462	MEPS	2002-2016
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	-0.028	-0.138	MEPS	2002-2016
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	0.225	-0.065	MEPS	2002-2016
Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-2.699	-2.859	NCDB	2005-2014
Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-0.987	-0.97	NCDB	2005-2014
Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy)	-0.205	-0.284	NCDB	2005-2014
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-0.061	-0.164	MEPS	2002-2016
Infants born in the calendar year who received breastfeeding through 3 months	-2.121	-1.664	NIS	2009-2015
Adults who received a blood cholesterol measurement in the last 5 years	-1.201	-1.317	NHIS	2003-2017
Children ages 2-17 who had a preventive dental service in the calendar year	-0.189	-0.95	MEPS	2002-2016
Children ages 2-17 who had a dental visit in the calendar year	-0.175	-0.842	MEPS	2002-2016
Children who had their height and weight measured by a health provider within the past 2 years	-0.392	-0.512	MEPS	2002-2016

Disparities Between Publicly Insured People and Privately Insured People Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Adults with a dental visit in the calendar year	0.224	-0.016	MEPS	2002-2016
Adults who had a preventive dental service in the calendar year	0.371	0.163	MEPS	2002-2016
Women ages 50-74 who received a mammogram in the last 2 years	0.37	0.438	NHIS	2000-2015
Women ages 21-65 who received a Pap smear in the last 3 years	0.372	0.585	NHIS	2000-2015
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-1.071	-1.331	MEPS	2011-2016
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-0.407	-0.479	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-0.279	-0.464	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-0.436	-0.416	MEPS	2002-2016
Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-0.31	-0.3	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-0.24	-0.271	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-0.245	-0.239	MEPS	2002-2016

Disparities Between Publicly Insured People and Privately Insured People Worsening	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
None				

Uninsured vs. Privately Insured

Disparities Between Uninsured People and Privately Insured People Improving	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	0.373	-1.42	MEPS	2008-2016

Disparities Between Uninsured People and Privately Insured People Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	0.268	-0.241	MEPS	2002-2016
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-0.119	-0.166	MEPS	2002-2015
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	0.225	0.081	MEPS	2002-2016
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-0.061	-0.135	MEPS	2002-2016
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	0.021	-0.096	NHIS	2009-2017
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	0.521	0.049	MEPS	2002-2016
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	0.957	0.21	MEPS	2003-2014
Adults who received a blood cholesterol measurement in the last 5 years	-1.201	-1.492	NHIS	2003-2017
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-1.174	-0.925	MEPS	2002-2016
Adults with obesity who ever received advice from a health professional to exercise more	-0.427	-0.816	MEPS	2002-2016
Children who had their height and weight measured by a health provider within the past 2 years	-0.392	-0.719	MEPS	2002-2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-1.388	-0.637	MEPS	2002-2016
Adults ages 18-64 at high risk (e.g., COPD) who received an influenza vaccination in the last flu season	0.026	-0.55	NHIS	2010-2017

Disparities Between Uninsured People and Privately Insured People Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-0.122	-0.529	MEPS	2002-2016
Adults ages 18 and over who received influenza vaccination in the last flu season	-0.829	-0.524	NHIS	2010-2017
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-0.347	-0.481	MEPS	2002-2016
Children ages 0-17 with wellness checkup in the past 12 months	-0.939	-0.452	NHIS	2000-2017
Children ages 6 months to 17 years who received influenza vaccination in the last flu season	-1.336	-0.249	NHIS	2010-2017
Children ages 2-17 who had a dental visit in the calendar year	-0.175	-0.059	MEPS	2002-2016
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-0.052	0.026	MEPS	2002-2016
Children ages 2-17 who had a preventive dental service in the calendar year	-0.189	0.095	MEPS	2002-2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-0.08	0.101	NHIS	2003-2017
Adults with a dental visit in the calendar year	0.224	0.103	MEPS	2002-2016
Adults who had a preventive dental service in the calendar year	0.371	0.278	MEPS	2002-2016
Women ages 50-74 who received a mammogram in the last 2 years	0.37	0.783	NHIS	2000-2015
Women ages 21-65 who received a Pap smear in the last 3 years	0.372	0.829	NHIS	2000-2015
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-1.071	-0.923	MEPS	2011-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-0.436	-0.509	MEPS	2002-2016
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-0.407	-0.369	MEPS	2002-2016
Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-0.31	-0.365	MEPS	2002-2016

Disparities Between Uninsured People and Privately Insured People Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-0.279	-0.342	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-0.24	-0.338	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-0.245	-0.294	MEPS	2002-2016

Disparities Between Uninsured People and Privately Insured People Worsening	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	-0.028	1.138	MEPS	2002-2016

APPENDIX A. LIST OF MEASURES AND SUMMARY OF RESULTS FOR FIGURES

A.6. Disparities: Residence Location

Measures included in Figure 128. Number and percentage of quality measures for which members of selected groups experienced better, same, or worse quality of care compared with reference group in 2015, 2016, or 2017, by residence location

Large Central Metropolitan vs. Large Fringe Metropolitan

Measures for Large Central Metro Better Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over	-25.68	-5.55	HCUP	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over	-15.93	-3.09	HCUP	2016
Hospital admissions for dehydration per 100,000 population, adults age 18 and over	-13.74	-2.74	HCUP	2016
Suicide deaths among persons age 12 and over per 100,000 population	-12.84	-13.40	NVSS_M	2016
Adults who received a blood cholesterol measurement in the last 5 years	-14.55	-2.05	NHIS	2017

Measures for Large Central Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-8.00	-0.99	MEPS	2016
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-7.20	-0.60	MEPS	2016
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	2.64	0.28	MEPS	2016
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	4.10	0.69	MEPS	2016
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	4.52	0.41	MEPS	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, adults	-9.78	-4.89	HCUP	2016
Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over	-4.57	-0.85	HCUP	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, adults	0.60	0.11	HCUP	2016
Hospital admissions for asthma per 100,000 population, adults ages 18-39	1.56	0.23	HCUP	2016

Appendix A: List of Measures and Summary of Results for Figures

Measures for Large Central Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Emergency department visits with a principal diagnosis related to dental conditions	5.64	0.49	HCUP_NED S	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children	5.84	1.06	HCUP	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years	6.76	0.52	HCUP	2016
Hospitalizations and emergency department encounters for congestive heart failure	7.43	0.72	HCUP_NED S	2016
Composite measure: Emergency department visits with a principal diagnosis related to co-occurring of mental health, alcohol and substance abuse, per 100,000 population	9.70	0.74	HCUP_NED S	2016
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	10.47	1.41	MEPS	2016
Hospital admissions for hypertension per 100,000 population, adults age 18 and over	11.24	1.74	HCUP	2016
Hospital admissions for long-term complications of diabetes per 100,000 population, adults	11.24	1.88	HCUP	2016
Emergency department visits with a principal diagnosis related to mental health only per 100,000 population	18.10	1.58	HCUP_NED S	2016
Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years	19.43	1.29	HCUP	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17	22.81	1.26	HCUP	2016
Lung cancer deaths per 100,000 population per year	-9.07	-11.70	NVSS_M	2016
Hospital admissions for congestive heart failure per 100,000 population	-7.04	-1.41	HCUP	2016
Deaths per 1,000 adult hospital admissions with congestive heart failure	-6.99	-2.43	HCUP	2016
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-6.97	-0.60	MEPS	2016
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	-0.83	-0.07	MEPS	2016
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-0.71	-0.10	NHIS	2017
People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months	-0.22	-0.12	NSDUH	2016
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-0.17	-0.03	NSDUH	2016

Measures for Large Central Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	1.79	0.51	MEPS	2016
Breast cancer deaths per 100,000 female population per year	2.53	1.77	NVSS_M	2016
Deaths per 1,000 adult hospital admissions with pneumonia	3.15	0.94	HCUP	2016
Emergency department visits involving opioid-related diagnoses per 100,000 population	3.17	.	HCUP_NEDS	2016
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	3.35	0.19	MEPS	2016
Colorectal cancer deaths per 100,000 population per year	4.55	4.24	NVSS_M	2016
Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over	5.36	0.81	HCUP	2016
People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months	6.42	1.51	NSDUH	2016
Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair	8.45	0.91	HCUP	2016
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	9.27	.	HCUP	2016
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	12.12	1.33	NSDUH	2016
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	17.77	1.44	MEPS	2016
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-3.31	-0.80	MEPS	2016
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-2.80	-0.59	MEPS	2016
Children ages 3-5 who ever had their vision checked by a health provider	-0.33	-0.02	MEPS	2016
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	1.53	0.11	MEPS	2016
Adults with obesity who ever received advice from a health professional to exercise more	3.09	0.54	MEPS	2016
Adults who had a preventive dental service in the calendar year	5.72	2.22	MEPS	2016
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	5.88	3.54	NVSS_L	2016
Adults with a dental visit in the calendar year	6.34	2.76	MEPS	2016
Live-born infants with low birth weight (less than 2,500 g)	7.59	21.21	NVSS_N	2017
Women ages 50-74 who received a mammogram in the last 2 years	8.40	0.95	NHIS	2015

Appendix A: List of Measures and Summary of Results for Figures

Measures for Large Central Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	9.04	2.05	MEPS	2016
Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	10.14	1.63	MEPS	2016
Children 0-40 lb for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	10.23	0.89	MEPS	2016
Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	11.71	1.61	MEPS	2016
Deaths per 1,000 hospital admissions with expected low-mortality	-9.52	-1.41	HCUP	2016
Birth trauma - injury to neonate per 1,000 selected live births	-7.28	-1.12	HCUP	2016
Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults	-5.45	-0.60	HCUP	2016
Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults	-4.76	-0.71	HCUP	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults	0.00	0.00	HCUP	2016
Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions	0.00	0.00	HCUP	2016
Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults	0.00	0.00	HCUP	2016
Obstetric trauma per 1,000 instrument-assisted deliveries	1.39	0.33	HCUP	2016
Postoperative hemorrhage or hematoma with surgical drainage or evacuation per 1,000 surgical hospital discharges, adults	1.80	0.47	HCUP	2016
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	3.26	0.20	MEPS	2016
Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults	3.61	0.42	HCUP	2016
Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	3.95	1.09	HCUP	2016
Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults	5.34	1.58	HCUP	2016
Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions	8.52	3.82	HCUP	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children	10.34	0.60	HCUP	2016

Measures for Large Central Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Adults age 65 and over who received in the calendar year at least 1 of 11 prescription medications that should be avoided in older adults	15.91	0.37	MEPS	2016
Adults with limited English proficiency and usual source of care (USC) and the USC had language assistance	-40.00	-1.34	MEPS	2016
Adults with limited English proficiency who had a usual source of care	-15.97	-1.62	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-7.32	-1.40	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-0.58	-0.22	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	2.83	1.09	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	4.37	0.38	MEPS	2016
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	4.43	0.51	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	8.51	0.87	MEPS	2016
Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	13.33	1.41	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	23.32	1.66	MEPS	2016

Measures for Large Central Metro Worse Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Emergency department encounters for asthma, children ages 2-17	74.46	2.85	HCUP_NEDS	2016
Hospital admissions for asthma per 100,000 population, children ages 2-17	72.26	3.83	HCUP	2016
Emergency department visits with a principal diagnosis related to substance abuse only, per 100,000 population	42.24	2.61	HCUP_NEDS	2016
Emergency department encounters for asthma, adults	34.20	2.42	HCUP_NEDS	2016
Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes	15.77	2.53	HCUP	2016
Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults	14.04	2.20	HCUP	2016

Measures for Large Central Metro Worse Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
HIV infection deaths per 100,000 population	141.67	16.67	NVSS_M	2016
Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over	17.90	4.33	HCUP	2016
Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI)	10.74	4.09	HCUP	2016
Children who had their height and weight measured by a health provider within the past 2 years	61.70	2.73	MEPS	2016
Women ages 21-65 who received a Pap smear in the last 3 years	33.33	3.79	NHIS	2015
Children ages 0-17 with wellness checkup in the past 12 months	24.78	2.20	NHIS	2017
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	24.75	3.36	MEPS	2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	21.87	2.19	NHIS	2017
Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over	16.90	2.28	HCUP	2016
Children ages 2-17 who had a preventive dental service in the calendar year	13.57	2.59	MEPS	2016
Children ages 2-17 who had a dental visit in the calendar year	13.55	2.40	MEPS	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	12.37	2.38	MEPS	2016
Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults	19.51	3.99	HCUP	2016
Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults	13.94	2.46	HCUP	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	27.73	1.99	MEPS	2016

Medium Metropolitan vs. Large Fringe Metropolitan

Measures for Medium Metro Better Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	-31.61	-2.39	MEPS	2016
Hospital admissions for asthma per 100,000 population, adults ages 18-39	-23.70	-3.66	HCUP	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over	-15.69	-2.79	HCUP	2016
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	-27.42	-2.15	MEPS	2016

Measures for Medium Metro Better Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over	-14.15	-2.02	HCUP	2016
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-21.52	-2.29	MEPS	2016

Measures for Medium Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-15.02	-1.21	MEPS	2016
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-9.14	-1.08	MEPS	2016
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	-6.79	-1.00	MEPS	2016
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	5.45	0.51	MEPS	2016
Hospital admissions for hypertension per 100,000 population, adults age 18 and over	-8.95	-1.35	HCUP	2016
Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over	-8.31	-1.47	HCUP	2016
Hospital admissions for dehydration per 100,000 population, adults age 18 and over	-8.15	-1.39	HCUP	2016
Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults	-8.11	-1.27	HCUP	2016
Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over	-4.77	-0.78	HCUP	2016
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-4.71	-0.51	MEPS	2016
Hospital admissions for long-term complications of diabetes per 100,000 population, adults	-3.98	-0.64	HCUP	2016
Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years	-3.43	-0.26	HCUP	2016
Hospital admissions for asthma per 100,000 population, children ages 2-17	-0.68	-0.05	HCUP	2016
Emergency department encounters for asthma, children ages 2-17	1.10	0.07	HCUP_NEDS	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children	2.76	0.61	HCUP	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, adults	3.03	1.29	HCUP	2016

Measures for Medium Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Emergency department visits with a principal diagnosis related to substance abuse only, per 100,000 population	8.39	0.67	HCUP_NEDS	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years	8.70	0.71	HCUP	2016
Composite measure: Emergency department visits with a principal diagnosis related to co-occurring of mental health, alcohol and substance abuse, per 100,000 population	9.68	0.69	HCUP_NEDS	2016
Hospitalizations and emergency department encounters for congestive heart failure	10.05	0.92	HCUP_NEDS	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, adults	11.42	1.68	HCUP	2016
Emergency department encounters for asthma, adults	13.00	1.09	HCUP_NEDS	2016
Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes	13.28	1.83	HCUP	2016
Emergency department visits with a principal diagnosis related to mental health only per 100,000 population	16.60	1.34	HCUP_NEDS	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17	22.81	1.34	HCUP	2016
Hospital admissions for congestive heart failure per 100,000 population	-9.05	-1.56	HCUP	2016
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-5.44	-0.41	MEPS	2016
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-4.57	-0.39	MEPS	2016
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	-3.07	-0.70	MEPS	2016
People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months	-1.83	-0.96	NSDUH	2016
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-0.34	-0.05	NSDUH	2016
Breast cancer deaths per 100,000 female population per year	0.00	0.00	NVSS_M	2016
Colorectal cancer deaths per 100,000 population per year	0.00	0.00	NVSS_M	2016
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	1.83	.	HCUP	2016
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	3.35	0.15	MEPS	2016
Deaths per 1,000 adult hospital admissions with congestive heart failure	4.78	1.53	HCUP	2016
Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair	5.35	0.61	HCUP	2016

Measures for Medium Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Lung cancer deaths per 100,000 population per year	6.04	7.78	NVSS_M	2016
People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months	6.16	1.42	NSDUH	2016
Deaths per 1,000 adult hospital admissions with pneumonia	7.09	1.95	HCUP	2016
Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over	7.14	1.19	HCUP	2016
Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI)	8.68	3.30	HCUP	2016
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	8.87	1.03	NHIS	2017
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	10.61	1.09	NSDUH	2016
Children ages 2-17 who had a dental visit in the calendar year	-7.01	-1.01	MEPS	2016
Children ages 2-17 who had a preventive dental service in the calendar year	-6.98	-1.10	MEPS	2016
Adults with a dental visit in the calendar year	-2.47	-0.82	MEPS	2016
Adults who had a preventive dental service in the calendar year	-2.08	-0.59	MEPS	2016
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-1.87	-0.30	MEPS	2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	1.56	0.16	NHIS	2017
Adults with obesity who ever received advice from a health professional to exercise more	2.53	0.36	MEPS	2016
Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	3.16	0.33	MEPS	2016
Live-born infants with low birth weight (less than 2,500 g)	5.06	14.14	NVSS_N	2017
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	5.83	0.39	MEPS	2016
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	6.04	1.37	MEPS	2016
Women ages 50-74 who received a mammogram in the last 2 years	10.00	1.04	NHIS	2015
Adults who received a blood cholesterol measurement in the last 5 years	10.91	1.41	NHIS	2017
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	11.03	1.91	MEPS	2016
Children ages 3-5 who ever had their vision checked by a health provider	12.13	0.70	MEPS	2016
Children 0-40 lb for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	18.15	1.19	MEPS	2016

Appendix A: List of Measures and Summary of Results for Figures

Measures for Medium Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Children who had their height and weight measured by a health provider within the past 2 years	31.91	1.33	MEPS	2016
Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults	-9.55	-2.67	HCUP	2016
Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions	-8.33	-0.71	HCUP	2016
Obstetric trauma per 1,000 instrument-assisted deliveries	-8.02	-1.99	HCUP	2016
Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	-3.39	-0.94	HCUP	2016
Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults	-1.20	-0.14	HCUP	2016
Birth trauma - injury to neonate per 1,000 selected live births	-0.21	-0.03	HCUP	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults	4.76	0.78	HCUP	2016
Deaths per 1,000 hospital admissions with expected low-mortality	4.76	0.45	HCUP	2016
Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions	7.09	3.04	HCUP	2016
Postoperative hemorrhage or hematoma with surgical drainage or evacuation per 1,000 surgical hospital discharges, adults	7.21	1.74	HCUP	2016
Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults	7.77	1.58	HCUP	2016
Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults	9.52	1.41	HCUP	2016
Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults	9.89	1.94	HCUP	2016
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	24.25	1.22	MEPS	2016
Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults	28.57	0.89	HCUP	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children	37.93	1.94	HCUP	2016
Adults with limited English proficiency who had a usual source of care	-17.13	-1.36	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-10.64	-0.94	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-1.87	-0.14	MEPS	2016

Measures for Medium Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Adults with limited English proficiency and usual source of care (USC) and the USC had language assistance	-1.33	-0.03	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	1.23	0.46	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	3.78	1.23	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	3.82	0.56	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	10.08	0.64	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	10.70	0.80	MEPS	2016
Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	14.44	1.20	MEPS	2016

Measures for Medium Metro Worse Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
HIV infection deaths per 100,000 population	33.33	14.14	NVSS_M	2016
Suicide deaths among persons age 12 and over per 100,000 population	20.27	13.42	NVSS_M	2016
Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over	19.07	4.61	HCUP	2016
Children ages 0-17 with wellness checkup in the past 12 months	39.82	3.17	NHIS	2017
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	29.41	4.90	NVSS_L	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	23.41	2.75	MEPS	2016
Women ages 21-65 who received a Pap smear in the last 3 years	22.22	2.18	NHIS	2015
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	16.42	2.66	MEPS	2016
Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	15.84	2.24	MEPS	2016
Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults	41.82	3.59	HCUP	2016

Small Metropolitan vs. Large Fringe Metropolitan

Measures for Small Metro Better Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	-31.61	-2.08	MEPS	2016
Hospital admissions for asthma per 100,000 population, adults ages 18-39	-29.17	-4.17	HCUP	2016
Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years	-26.86	-2.37	HCUP	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over	-15.57	-2.46	HCUP	2016
Hospital admissions for hypertension per 100,000 population, adults age 18 and over	-14.48	-2.01	HCUP	2016
Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over	-17.76	-2.30	HCUP	2016
Obstetric trauma per 1,000 instrument-assisted deliveries	-16.39	-3.74	HCUP	2016
Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults	-12.08	-3.03	HCUP	2016
Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	-10.73	-2.97	HCUP	2016

Measures for Small Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-16.05	-0.99	MEPS	2016
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	2.29	0.19	MEPS	2016
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	3.65	0.38	MEPS	2015
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	4.53	0.52	MEPS	2016
Hospital admissions for asthma per 100,000 population, children ages 2-17	-18.27	-1.60	HCUP	2016
Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults	-10.75	-1.52	HCUP	2016
Hospital admissions for long-term complications of diabetes per 100,000 population, adults	-10.30	-1.53	HCUP	2016
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-8.90	-0.81	MEPS	2016
Hospital admissions for dehydration per 100,000 population, adults age 18 and over	-5.70	-0.83	HCUP	2016
Emergency department encounters for asthma, children ages 2-17	-5.19	-0.31	HCUP_NEDS	2016

Measures for Small Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over	0.09	0.01	HCUP	2016
Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over	2.05	0.30	HCUP	2016
Emergency department visits with a principal diagnosis related to substance abuse only, per 100,000 population	2.72	0.19	HCUP_NEDS	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17	3.51	0.21	HCUP	2016
Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes	6.22	0.82	HCUP	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years	8.21	0.65	HCUP	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, adults	9.93	3.92	HCUP	2016
Composite measure: Emergency department visits with a principal diagnosis related to co-occurring of mental health, alcohol and substance abuse, per 100,000 population	10.88	0.63	HCUP_NEDS	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, adults	14.63	1.72	HCUP	2016
Emergency department visits with a principal diagnosis related to mental health only per 100,000 population	26.55	1.75	HCUP_NEDS	2016
Emergency department encounters for asthma, adults	27.56	1.77	HCUP_NEDS	2016
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	-16.74	-0.66	MEPS	2016
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	-11.65	-1.85	MEPS	2016
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-8.41	-0.50	MEPS	2016
Hospital admissions for congestive heart failure per 100,000 population	-8.01	-1.22	HCUP	2016
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	-6.09	-0.34	MEPS	2016
Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair	-1.97	-0.19	HCUP	2016
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-1.82	-0.15	NSDUH	2016
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	-0.07	.	HCUP	2016

Measures for Small Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
HIV infection deaths per 100,000 population	0.00	0.00	NVSS_M	2016
People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months	0.75	0.38	NSDUH	2016
Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI)	1.86	0.60	HCUP	2016
Breast cancer deaths per 100,000 female population per year	3.54	1.94	NVSS_M	2016
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	6.05	0.75	NSDUH	2016
Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over	7.39	1.46	HCUP	2016
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	7.80	0.83	NHIS	2017
Deaths per 1,000 adult hospital admissions with pneumonia	8.27	1.94	HCUP	2016
Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over	14.73	1.83	HCUP	2016
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	15.47	0.96	MEPS	2016
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-6.73	-0.84	MEPS	2016
Adults with a dental visit in the calendar year	-4.17	-0.99	MEPS	2016
Adults who had a preventive dental service in the calendar year	-3.81	-0.83	MEPS	2016
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	2.15	0.11	MEPS	2016
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	2.92	0.44	MEPS	2016
Live-born infants with low birth weight (less than 2,500 g)	3.80	10.61	NVSS_N	2017
Children ages 3-5 who ever had their vision checked by a health provider	4.92	0.23	MEPS	2016
Children ages 2-17 who had a preventive dental service in the calendar year	5.43	0.70	MEPS	2016
Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	6.51	0.58	MEPS	2016
Adults with obesity who ever received advice from a health professional to exercise more	8.43	1.08	MEPS	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	8.74	1.06	MEPS	2016

Measures for Small Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	10.13	1.25	MEPS	2016
Women ages 50-74 who received a mammogram in the last 2 years	11.20	0.83	NHIS	2015
Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	12.28	1.30	MEPS	2016
Women ages 21-65 who received a Pap smear in the last 3 years	14.38	1.28	NHIS	2015
Children ages 2-17 who had a dental visit in the calendar year	14.72	1.65	MEPS	2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	15.62	1.16	NHIS	2017
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	22.07	1.78	MEPS	2016
Children 0-40 lb for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	39.60	1.86	MEPS	2016
Children who had their height and weight measured by a health provider within the past 2 years	55.32	1.53	MEPS	2016
Deaths per 1,000 hospital admissions with expected low-mortality	-4.76	-0.45	HCUP	2016
Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions	0.00	0.00	HCUP	2016
Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults	3.61	0.38	HCUP	2016
Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions	5.01	1.85	HCUP	2016
Postoperative hemorrhage or hematoma with surgical drainage or evacuation per 1,000 surgical hospital discharges, adults	7.21	1.48	HCUP	2016
Birth trauma - injury to neonate per 1,000 selected live births	7.71	0.99	HCUP	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults	8.57	1.12	HCUP	2016
Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults	9.34	1.75	HCUP	2016
Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults	9.52	1.41	HCUP	2016
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	26.66	0.95	MEPS	2016

Measures for Small Metro Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children	27.59	1.11	HCUP	2016
Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults	42.86	1.34	HCUP	2016
Adults with limited English proficiency who had a usual source of care	-21.19	-1.38	MEPS	2015
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-13.92	-1.18	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-13.83	-0.94	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-1.91	-0.23	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-0.62	-0.19	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	2.77	0.78	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	6.33	0.29	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	6.71	0.41	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	13.45	0.62	MEPS	2016
Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	16.67	1.29	MEPS	2016

Measures for Small Metro Worse Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Hospitalizations and emergency department encounters for congestive heart failure	39.58	2.65	HCUP_NEDS	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children	10.89	2.29	HCUP	2016
Suicide deaths among persons age 12 and over per 100,000 population	30.41	14.23	NVSS_M	2016
Lung cancer deaths per 100,000 population per year	14.01	14.14	NVSS_M	2016
Deaths per 1,000 adult hospital admissions with congestive heart failure	12.13	3.05	HCUP	2016
People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months	11.07	2.47	NSDUH	2016

Colorectal cancer deaths per 100,000 population per year	10.61	6.26	NVSS_M	2016
Children ages 0-17 with wellness checkup in the past 12 months	53.98	3.67	NHIS	2017
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	52.94	8.83	NVSS_L	2016
Adults who received a blood cholesterol measurement in the last 5 years	46.36	3.80	NHIS	2017
Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults	47.27	2.91	HCUP	2016
Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults	12.75	2.08	HCUP	2016

Micropolitan vs. Large Fringe Metropolitan

Measures for Micropolitan Better Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-31.28	-2.02	MEPS	2016
Hospital admissions for asthma per 100,000 population, adults ages 18-39	-28.39	-4.62	HCUP	2016
Hospital admissions for asthma per 100,000 population, children ages 2-17	-26.66	-2.70	HCUP	2016
Hospital admissions for hypertension per 100,000 population, adults age 18 and over	-14.48	-2.49	HCUP	2016
Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over	-26.97	-4.52	HCUP	2016
Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions	-25.00	-2.12	HCUP	2016
Obstetric trauma per 1,000 instrument-assisted deliveries	-20.31	-5.04	HCUP	2016
Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	-18.08	-5.00	HCUP	2016
Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults	-11.52	-2.88	HCUP	2016
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-26.58	-2.26	MEPS	2016

Measures for Micropolitan Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	-20.00	-0.91	MEPS	2016
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-7.10	-0.48	MEPS	2016
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	-1.84	-0.21	MEPS	2016

Appendix A: List of Measures and Summary of Results for Figures

Measures for Micropolitan Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	14.29	1.29	MEPS	2016
Emergency department encounters for asthma, children ages 2-17	-16.89	-1.27	HCUP_NEDS	2016
Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years	-16.00	-1.41	HCUP	2016
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-12.57	-1.09	MEPS	2016
Emergency department visits with a principal diagnosis related to substance abuse only, per 100,000 population	-11.11	-1.13	HCUP_NEDS	2016
Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults	-1.97	-0.35	HCUP	2016
Hospital admissions for long-term complications of diabetes per 100,000 population, adults	-1.52	-0.30	HCUP	2016
Composite measure: Emergency department visits with a principal diagnosis related to co-occurring of mental health, alcohol and substance abuse, per 100,000 population	3.19	0.25	HCUP_NEDS	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children	5.11	1.15	HCUP	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17	6.14	0.40	HCUP	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over	7.38	1.39	HCUP	2016
Hospital admissions for dehydration per 100,000 population, adults age 18 and over	8.49	1.63	HCUP	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, adults	9.66	3.94	HCUP	2016
Emergency department encounters for asthma, adults	14.27	1.24	HCUP_NEDS	2016
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-20.43	-1.52	MEPS	2016
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-9.75	-1.19	NSDUH	2016
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-9.74	-0.51	MEPS	2016
Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair	-3.10	-0.30	HCUP	2016
People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months	-2.52	-0.45	NSDUH	2016

Measures for Micropolitan Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	-1.66	-0.10	MEPS	2016
Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over	-0.39	-0.09	HCUP	2016
People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months	-0.11	-0.05	NSDUH	2016
Breast cancer deaths per 100,000 female population per year	2.02	1.11	NVSS_M	2016
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	3.35	0.10	MEPS	2016
Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI)	3.93	1.27	HCUP	2016
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	5.25	1.32	MEPS	2016
Hospital admissions for congestive heart failure per 100,000 population	5.69	1.15	HCUP	2016
HIV infection deaths per 100,000 population	8.33	0.98	NVSS_M	2016
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	10.00	0.87	NSDUH	2016
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	13.12	1.31	NHIS	2017
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-7.36	-0.36	MEPS	2016
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	0.19	0.02	MEPS	2016
Live-born infants with low birth weight (less than 2,500 g)	6.33	17.68	NVSS_N	2017
Children 0-40 lb for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	6.93	0.27	MEPS	2016
Adults with a dental visit in the calendar year	9.89	2.80	MEPS	2016
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	10.33	1.64	MEPS	2016
Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	10.41	0.98	MEPS	2016
Children ages 2-17 who had a dental visit in the calendar year	14.72	1.62	MEPS	2016
Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	16.90	1.78	MEPS	2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	17.19	1.28	NHIS	2017

Appendix A: List of Measures and Summary of Results for Figures

Measures for Micropolitan Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Children ages 3-5 who ever had their vision checked by a health provider	22.95	0.93	MEPS	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children	-3.45	-0.14	HCUP	2016
Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults	0.00	0.00	HCUP	2016
Postoperative hemorrhage or hematoma with surgical drainage or evacuation per 1,000 surgical hospital discharges, adults	2.70	0.60	HCUP	2016
Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions	7.44	2.75	HCUP	2016
Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults	13.25	1.28	HCUP	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults	14.29	1.86	HCUP	2016
Deaths per 1,000 hospital admissions with expected low-mortality	19.05	1.26	HCUP	2016
Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults	42.86	1.34	HCUP	2016
Adults with limited English proficiency who had a usual source of care	-20.37	-1.16	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-8.28	-0.89	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-3.19	-0.20	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	0.29	0.10	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	3.33	1.06	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	9.98	0.49	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	13.03	0.46	MEPS	2016
Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	31.11	1.73	MEPS	2016

Measures for Micropolitan Worse Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Emergency department visits with a principal diagnosis related to dental conditions	117.92	9.31	HCUP_NEDS	2016
Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over	46.85	7.93	HCUP	2016
Hospitalizations and emergency department encounters for congestive heart failure	45.84	4.38	HCUP_NEDS	2016
Emergency department visits with a principal diagnosis related to mental health only per 100,000 population	35.80	3.19	HCUP_NEDS	2016
Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over	24.56	4.19	HCUP	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years	24.15	2.13	HCUP	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, adults	22.65	3.99	HCUP	2016
Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes	18.26	2.93	HCUP	2016
Suicide deaths among persons age 12 and over per 100,000 population	41.22	19.29	NVSS_M	2016
Lung cancer deaths per 100,000 population per year	25.55	25.79	NVSS_M	2016
Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over	18.75	2.23	HCUP	2016
Colorectal cancer deaths per 100,000 population per year	16.67	9.84	NVSS_M	2016
Deaths per 1,000 adult hospital admissions with congestive heart failure	13.24	3.60	HCUP	2016
Deaths per 1,000 adult hospital admissions with pneumonia	10.63	2.70	HCUP	2016
Children ages 0-17 with wellness checkup in the past 12 months	94.69	4.68	NHIS	2017
Children who had their height and weight measured by a health provider within the past 2 years	91.49	2.18	MEPS	2016
Adults who received a blood cholesterol measurement in the last 5 years	70.00	6.15	NHIS	2017
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	58.82	9.81	NVSS_L	2016
Women ages 50-74 who received a mammogram in the last 2 years	43.20	3.48	NHIS	2015
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	41.14	2.61	MEPS	2016
Women ages 21-65 who received a Pap smear in the last 3 years	36.60	2.97	NHIS	2015
Adults with obesity who ever received advice from a health professional to exercise more	24.16	2.83	MEPS	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	24.09	2.34	MEPS	2016

Measures for Micropolitan Worse Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	19.53	2.52	MEPS	2016
Children ages 2-17 who had a preventive dental service in the calendar year	13.57	2.00	MEPS	2016
Adults who had a preventive dental service in the calendar year	10.23	2.23	MEPS	2016
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	65.26	2.77	MEPS	2016
Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults	40.00	2.46	HCUP	2016
Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults	20.12	3.46	HCUP	2016
Birth trauma - injury to neonate per 1,000 selected live births	17.13	2.25	HCUP	2016
Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults	11.54	1.99	HCUP	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	37.55	2.17	MEPS	2016

Noncore vs. Large Fringe Metropolitan

Measures for Noncore Better Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Hospital admissions for asthma per 100,000 population, children ages 2-17	-35.05	-3.48	HCUP	2016
Hospital admissions for asthma per 100,000 population, adults ages 18-39	-31.77	-5.17	HCUP	2016
Emergency department visits with a principal diagnosis related to substance abuse only, per 100,000 population	-30.34	-3.28	HCUP_NEDS	2016
Composite measure: Emergency department visits with a principal diagnosis related to co-occurring of mental health, alcohol and substance abuse, per 100,000 population	-25.63	-2.30	HCUP_NEDS	2016
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-27.58	-2.36	NSDUH	2016
People age 12 and over who needed treatment for illicit drug use and who received such treatment at a specialty facility in the last 12 months	-13.37	-2.08	NSDUH	2015
Hospital admissions for immunization-preventable influenza per 100,000 population, adults age 65 and over	-26.02	-4.41	HCUP	2016
Hospital admissions with central venous catheter-related bloodstream infection per 1,000 medical and surgical discharges of length 2 or more days, adults age 18 and over or obstetric admissions	-25.00	-2.12	HCUP	2016
Obstetric trauma per 1,000 instrument-assisted deliveries	-22.76	-4.95	HCUP	2016
Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	-18.08	-4.44	HCUP	2016

Measures for Noncore Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	13.71	1.01	MEPS	2016
Emergency department encounters for asthma, children ages 2-17	-18.90	-1.44	HCUP_NEDS	2016
Hospital admissions for pediatric gastroenteritis per 100,000 population, children ages 3 months to 17 years	-14.00	-1.13	HCUP	2016
Hospital admissions for hypertension per 100,000 population, adults age 18 and over	-10.29	-1.81	HCUP	2016
Hospital admissions for long-term complications of diabetes per 100,000 population, adults	4.92	0.86	HCUP	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, children	6.53	1.44	HCUP	2016
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	6.81	0.38	MEPS	2016
Emergency department encounters for asthma, adults	9.52	0.91	HCUP_NEDS	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, children ages 6-17	17.98	1.09	HCUP	2016
Emergency department visits with a principal diagnosis related to mental health only per 100,000 population	19.49	1.89	HCUP_NEDS	2016
HIV infection deaths per 100,000 population	-8.33	-0.98	NVSS_M	2016
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-7.09	-0.75	NHIS	2017
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-5.55	-0.59	NSDUH	2016
People age 12 and over who needed treatment for alcohol problem who received such treatment at a specialty facility in the last 12 months	-5.17	-1.44	NSDUH	2016
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	-1.40	.	HCUP	2016
Emergency department visits involving opioid-related diagnoses per 100,000 population	-0.77	.	HCUP_NEDS	2016
Breast cancer deaths per 100,000 female population per year	3.54	1.57	NVSS_M	2016
Deaths per 1,000 adult hospital admissions with acute myocardial infarction (AMI)	6.82	1.89	HCUP	2016
Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty (PTCA), adults age 40 and over	7.00	1.47	HCUP	2016
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	7.43	1.40	MEPS	2016

Measures for Noncore Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Deaths per 1,000 hospital admissions with coronary artery bypass surgery, adults age 40 and over	7.59	0.94	HCUP	2016
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	7.93	0.44	MEPS	2016
Deaths per 1,000 adult hospital admissions with abdominal aortic aneurysm (AAA) repair	13.80	1.10	HCUP	2016
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	18.28	1.05	MEPS	2016
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	24.93	1.33	MEPS	2016
Live-born infants with low birth weight (less than 2,500 g)	5.06	3.92	NVSS_N	2017
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	8.77	0.92	MEPS	2016
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	9.91	0.64	MEPS	2016
Adults with obesity who ever received advice from a health professional to exercise more	17.42	1.40	MEPS	2016
Children ages 2-17 who had a dental visit in the calendar year	17.76	1.83	MEPS	2016
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	18.71	0.79	MEPS	2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	29.69	1.36	NHIS	2017
Children who had their height and weight measured by a health provider within the past 2 years	74.47	1.44	MEPS	2016
Postoperative pulmonary embolism (PE) or deep vein thrombosis (DVT) per 1,000 surgical hospital discharges, adults	-6.74	-1.60	HCUP	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, children	0.00	0.00	HCUP	2016
Accidental puncture or laceration during procedure per 1,000 medical and surgical admissions, adults	5.71	0.67	HCUP	2016
Deaths per 1,000 elective-surgery admissions having developed specified complications of care during hospitalization, adults ages 18-89 or obstetric admissions	5.73	2.12	HCUP	2016
Postoperative hemorrhage or hematoma with surgical drainage or evacuation per 1,000 surgical hospital discharges, adults	6.76	1.29	HCUP	2016
Postoperative physiologic and metabolic derangements per 1,000 elective surgical hospital discharges, adults	13.25	1.07	HCUP	2016

Measures for Noncore Same as Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Hospital admissions with iatrogenic pneumothorax per 1,000 medical and surgical admissions, adults	14.29	1.34	HCUP	2016
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	36.31	1.20	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-23.40	-1.49	MEPS	2016
Adults with limited English proficiency who had a usual source of care	-9.82	-0.38	MEPS	2015
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-5.06	-0.31	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	0.37	0.10	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	3.49	0.80	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	4.15	0.17	MEPS	2016
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	5.10	0.50	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	14.66	0.60	MEPS	2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	32.77	1.07	MEPS	2016
Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	33.33	1.37	MEPS	2016

Measures for Noncore Worse Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Hospital admissions for community-acquired pneumonia per 100,000 population, adults age 18 and over	115.23	16.11	HCUP	2016
Hospitalizations and emergency department encounters for congestive heart failure	71.92	5.59	HCUP_NEDS	2016
Hospital admissions for chronic obstructive pulmonary disease or asthma per 100,000 population, adults age 40 and over	50.18	7.48	HCUP	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, adults age 18 and over	45.08	7.60	HCUP	2016
Hospital admissions for urinary tract infection (UTI) per 100,000 population, children ages 3 months to 17 years	37.20	3.11	HCUP	2016

Appendix A: List of Measures and Summary of Results for Figures

Measures for Noncore Worse Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Hospital admissions for lower extremity amputations per 1,000 population, adults age 18 and over with diabetes	28.22	3.70	HCUP	2016
Hospital admissions for dehydration per 100,000 population, adults age 18 and over	21.66	3.95	HCUP	2016
Hospital admissions for short-term complications of diabetes per 100,000 population, adults	16.63	2.78	HCUP	2016
Hospital admissions for uncontrolled diabetes without complications per 100,000 population, adults	13.38	2.21	HCUP	2016
Hospital admissions for perforated appendix per 1,000 admissions with appendicitis, adults	11.41	4.72	HCUP	2016
Suicide deaths among persons age 12 and over per 100,000 population	54.73	19.65	NVSS_M	2016
Lung cancer deaths per 100,000 population per year	32.42	26.39	NVSS_M	2016
Colorectal cancer deaths per 100,000 population per year	25.76	10.75	NVSS_M	2016
Deaths per 1,000 adult hospital admissions with pneumonia	20.47	4.81	HCUP	2016
Deaths per 1,000 adult hospital admissions with congestive heart failure	20.22	5.08	HCUP	2016
Hospital admissions for congestive heart failure per 100,000 population	15.73	2.96	HCUP	2016
Children ages 0-17 with wellness checkup in the past 12 months	84.96	3.89	NHIS	2017
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	82.35	13.73	NVSS_L	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	79.26	3.08	MEPS	2016
Adults who received a blood cholesterol measurement in the last 5 years	78.18	4.77	NHIS	2017
Women ages 21-65 who received a Pap smear in the last 3 years	69.93	3.72	NHIS	2015
Women ages 50-74 who received a mammogram in the last 2 years	58.80	4.49	NHIS	2015
Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	41.08	2.92	MEPS	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	37.07	3.01	MEPS	2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	36.46	2.83	MEPS	2016
Adults with a dental visit in the calendar year	21.95	5.38	MEPS	2016
Adults who had a preventive dental service in the calendar year	21.49	4.39	MEPS	2016
Children ages 2-17 who had a preventive dental service in the calendar year	19.96	2.24	MEPS	2016
Deaths per 1,000 hospital admissions with expected low-mortality	104.76	3.62	HCUP	2016

Measures for Noncore Worse Than Large Fringe Metro	Relative Difference	Z Score	Data Source	Data Year
Reclosure of postoperative abdominal wound dehiscence per 1,000 abdominopelvic-surgery admissions of length 2 or more days, adults	90.91	4.27	HCUP	2016
Postoperative hip fracture per 1,000 surgical admissions who were not susceptible to falling, adults	71.43	2.24	HCUP	2016
Postoperative respiratory failure per 1,000 elective surgical hospital discharges, adults	27.49	4.25	HCUP	2016
Sepsis diagnoses per 1,000 elective-surgery admissions of length 4 or more days, adults	20.60	3.29	HCUP	2016
Birth trauma - injury to neonate per 1,000 selected live births	18.63	2.19	HCUP	2016

Measures included in Figure 139. Number and percentage of all quality measures that were improving, not changing, or worsening, by residence location, from 2002 through 2011, 2014, 2015, 2016, or 2017

Large Central Metro Improving

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
HIV infection deaths per 100,000 population	-9.01	0.004	0	NVSS_M	13 (2004-2016)
Adults age 65 and over who received in the calendar year at least 1 of 11 prescription medications that should be avoided in older adults	-5.94	0.014	0.002	MEPS	15 (2002-2016)
Children who had their height and weight measured by a health provider within the past 2 years	-5.48	0.005	0	MEPS	15 (2002-2016)
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-4.97	0.007	0	MEPS	15 (2002-2016)
Children ages 0-17 with wellness checkup in the past 12 months	-4.63	0.008	0.001	NHIS	9 (2009-2017)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-4.56	0.005	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-4.48	0.007	0.003	MEPS	6 (2011-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-4.09	0.004	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-3.97	0.004	0	MEPS	15 (2002-2016)
Children ages 3-5 who ever had their vision checked by a health provider	-3.67	0.005	0	MEPS	15 (2002-2016)
Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-3.56	0.003	0	MEPS	15 (2002-2016)
Adults age 65 and over who ever received pneumococcal vaccination	-3.26	0.01	0.019	NHIS	7 (2005-2011)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-3.2	0.004	0	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Lung cancer deaths per 100,000 population per year	-3.04	0.001	0	NVSS_M	13 (2004-2016)
Colorectal cancer deaths per 100,000 population per year	-2.44	0.001	0	NVSS_M	13 (2004-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-2.4	0.003	0	MEPS	15 (2002-2016)
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-2.19	0.008	0.017	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-1.98	0.002	0	MEPS	15 (2002-2016)
Breast cancer deaths per 100,000 female population per year	-1.76	0	0	NVSS_M	13 (2004-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-1.75	0.005	0.032	MEPS	6 (2011-2016)
Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	-1.73	0.004	0.002	MEPS	15 (2002-2016)
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-1.6	0.008	0.094	NHIS	9 (2009-2017)
Adults with obesity who ever received advice from a health professional to exercise more	-1.47	0.002	0	MEPS	15 (2002-2016)
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-1.38	0.006	0.063	NHIS	7 (2005-2011)
Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-1.25	0.003	0	MEPS	15 (2002-2016)
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-1.2	0.006	0.087	NSDUH	8 (2009-2016)
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-1.06	0.004	0.032	MEPS	15 (2002-2016)

Large Central Metro Not Changing

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults age 65 and over who received an influenza vaccination in the last flu season	-2.97	0.018	0.154	NHIS	7 (2005-2011)
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-1.21	0.01	0.268	NSDUH	8 (2009-2016)
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-0.98	0.005	0.092	MEPS	15 (2002-2016)
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.96	0.003	0.034	NVSS_L	7 (2010-2016)
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-0.94	0.03	0.784	NHIS	10 (2008-2017)
Children ages 2-17 who had a dental visit in the calendar year	-0.9	0.002	0.001	MEPS	15 (2002-2016)
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-0.84	0.002	0	MEPS	15 (2002-2016)
Children ages 2-17 who had a preventive dental service in the calendar year	-0.84	0.002	0.001	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-0.83	0.008	0.358	MEPS	9 (2008-2016)
Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-0.8	0.002	0.004	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-0.46	0.002	0.048	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-0.42	0.002	0.111	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-0.37	0.002	0.161	MEPS	6 (2011-2016)
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-0.3	0.004	0.419	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-0.14	0.007	0.841	MEPS	15 (2002-2016)
Women ages 50-74 who received a mammogram in the last 2 years	-0.12	0.004	0.807	NHIS	11 (2005-2015)
Live-born infants with low birth weight (less than 2,500 g)	-0.03	0.001	0.791	NVSS_N	11 (2007-2017)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	-0.02	0.002	0.922	MEPS	15 (2002-2016)
Adults with a dental visit in the calendar year	0.04	0.001	0.673	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	0.2	0.004	0.593	MEPS	15 (2002-2016)
Adults who had a preventive dental service in the calendar year	0.32	0.001	0.036	MEPS	15 (2002-2016)
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	0.56	0.009	0.54	MEPS	15 (2002-2016)
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	0.6	0.001	0.001	MEPS	14 (2003-2016)
Suicide deaths among persons age 12 and over per 100,000 population	0.73	0.002	0.002	NVSS_M	9 (2008-2016)
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	0.91	0.009	0.343	MEPS	15 (2002-2016)

Large Central Metro Worsening

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	1.02	0.003	0.004	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	1.65	0.007	0.038	MEPS	15 (2002-2016)
Women ages 21-65 who received a Pap smear in the last 3 years	2.61	0.002	0.001	NHIS	11 (2005-2015)
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	3.02	0.008	0.004	HCUP	12 (2005-2016)
Emergency department visits involving opioid-related diagnoses per 100,000 population	10.92	0.009	0	HCUP_NED S	12 (2005-2016)

Large Fringe Metro Improving

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
HIV infection deaths per 100,000 population	-8.23	0.004	0	NVSS_M	13 (2004-2016)
Children who had their height and weight measured by a health provider within the past 2 years	-6.2	0.006	0	MEPS	15 (2002-2016)
Adults age 65 and over who received in the calendar year at least 1 of 11 prescription medications that should be avoided in older adults	-5.73	0.015	0.007	MEPS	15 (2002-2016)
Children ages 0-17 with wellness checkup in the past 12 months	-4.73	0.011	0.005	NHIS	9 (2009-2017)
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-4.09	0.007	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-4.08	0.004	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-3.9	0.003	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-3.8	0.004	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-3.37	0.003	0	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-3.2	0.003	0	MEPS	15 (2002-2016)
Lung cancer deaths per 100,000 population per year	-2.85	0.001	0	NVSS_M	13 (2004-2016)
Colorectal cancer deaths per 100,000 population per year	-2.83	0.001	0	NVSS_M	13 (2004-2016)
Children ages 3-5 who ever had their vision checked by a health provider	-2.56	0.003	0	MEPS	15 (2002-2016)
Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-2.53	0.003	0	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-2.4	0.011	0.087	MEPS	6 (2011-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-2.34	0.003	0	MEPS	15 (2002-2016)
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-2.19	0.007	0.019	NSDUH	8 (2009-2016)
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-2.12	0.006	0.003	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-2.01	0.002	0.001	MEPS	6 (2011-2016)
Adults age 65 and over who ever received pneumococcal vaccination	-1.97	0.006	0.018	NHIS	7 (2005-2011)
Breast cancer deaths per 100,000 female population per year	-1.96	0.001	0	NVSS_M	13 (2004-2016)
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-1.79	0.007	0.029	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional to exercise more	-1.53	0.002	0	MEPS	15 (2002-2016)
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-1.5	0.004	0.017	NHIS	7 (2005-2011)
Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	-1.28	0.005	0.019	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-1.21	0.003	0.011	MEPS	6 (2011-2016)
Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-1.17	0.003	0.001	MEPS	15 (2002-2016)
Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-1.09	0.003	0.001	MEPS	15 (2002-2016)

Large Fringe Metro Not Changing

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults age 65 and over who received an influenza vaccination in the last flu season	-2.1	0.017	0.275	NHIS	7 (2005-2011)
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-1.73	0.011	0.173	NSDUH	8 (2009-2016)
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-0.73	0.003	0.032	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-0.58	0.004	0.145	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-0.56	0.002	0.005	MEPS	15 (2002-2016)
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-0.44	0.007	0.508	MEPS	15 (2002-2016)
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.41	0.004	0.363	NVSS_L	7 (2010-2016)
Children ages 2-17 who had a preventive dental service in the calendar year	-0.24	0.002	0.198	MEPS	15 (2002-2016)
Children ages 2-17 who had a dental visit in the calendar year	-0.18	0.002	0.391	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-0.17	0.004	0.685	MEPS	15 (2002-2016)
Live-born infants with low birth weight (less than 2,500 g)	-0.11	0.001	0.326	NVSS_N	11 (2007-2017)
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	0.35	0.005	0.488	MEPS	15 (2002-2016)
Adults with a dental visit in the calendar year	0.41	0.001	0.001	MEPS	15 (2002-2016)
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	0.46	0.004	0.33	NHIS	9 (2009-2017)
Women ages 50-74 who received a mammogram in the last 2 years	0.47	0.009	0.629	NHIS	11 (2005-2015)
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	0.49	0.004	0.216	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	0.5	0.005	0.354	MEPS	9 (2008-2016)
Adults who had a preventive dental service in the calendar year	0.67	0.001	0	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	0.73	0.01	0.469	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	0.85	0.006	0.207	MEPS	15 (2002-2016)
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	1.22	0.019	0.584	NHIS	10 (2008-2017)
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	1.49	0.01	0.17	MEPS	15 (2002-2016)
Women ages 21-65 who received a Pap smear in the last 3 years	2.29	0.012	0.159	NHIS	11 (2005-2015)

Large Fringe Metro Worsening

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	1.6	0.002	0	MEPS	14 (2003-2016)
Suicide deaths among persons age 12 and over per 100,000 population	1.74	0.002	0	NVSS_M	9 (2008-2016)
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	2.04	0.003	0	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	2.29	0.006	0.003	MEPS	15 (2002-2016)
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	7.56	0.006	0	HCUP	12 (2005-2016)
Emergency department visits involving opioid-related diagnoses per 100,000 population	9.38	0.012	0	HCUP_NED S	12 (2005-2016)

Medium Metro Improving

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
HIV infection deaths per 100,000 population	-6.95	0.004	0	NVSS_M	13 (2004-2016)
Children ages 0-17 with wellness checkup in the past 12 months	-5.22	0.01	0.002	NHIS	9 (2009-2017)
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-4.24	0.006	0	MEPS	15 (2002-2016)
Children who had their height and weight measured by a health provider within the past 2 years	-3.95	0.01	0.001	MEPS	15 (2002-2016)
Adults age 65 and over who ever received pneumococcal vaccination	-3.44	0.007	0.004	NHIS	7 (2005-2011)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-3.36	0.008	0.001	MEPS	15 (2002-2016)
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-2.99	0.006	0	MEPS	15 (2002-2016)
Adults age 65 and over who received an influenza vaccination in the last flu season	-2.9	0.011	0.048	NHIS	7 (2005-2011)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-2.79	0.005	0	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-2.67	0.004	0	MEPS	15 (2002-2016)
Lung cancer deaths per 100,000 population per year	-2.64	0.001	0	NVSS_M	13 (2004-2016)
Children ages 3-5 who ever had their vision checked by a health provider	-2.56	0.005	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-2.41	0.006	0.001	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-2.34	0.006	0.001	MEPS	15 (2002-2016)
Colorectal cancer deaths per 100,000 population per year	-2.3	0.001	0	NVSS_M	13 (2004-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-2.13	0.003	0	MEPS	15 (2002-2016)
Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-1.69	0.003	0	MEPS	15 (2002-2016)
Breast cancer deaths per 100,000 female population per year	-1.65	0.001	0	NVSS_M	13 (2004-2016)
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-1.55	0.006	0.027	MEPS	15 (2002-2016)
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-1.53	0.005	0.01	MEPS	15 (2002-2016)
Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-1.49	0.004	0.002	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional to exercise more	-1.22	0.003	0.001	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-1.21	0.003	0.017	MEPS	6 (2011-2016)
Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	-1.04	0.004	0.016	MEPS	15 (2002-2016)
Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-1.01	0.003	0.007	MEPS	15 (2002-2016)

Medium Metro Not Changing

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults age 65 and over who received in the calendar year at least 1 of 11 prescription medications that should be avoided in older adults	-5.04	0.033	0.156	MEPS	10 (2002-2011)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-1.6	0.01	0.165	MEPS	6 (2011-2016)

Appendix A: List of Measures and Summary of Results for Figures

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-0.95	0.002	0.002	NHIS	7 (2005-2011)
Children ages 2-17 who had a dental visit in the calendar year	-0.89	0.003	0.015	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-0.8	0.003	0.028	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-0.79	0.002	0.026	MEPS	6 (2011-2016)
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-0.74	0.003	0.078	NSDUH	8 (2009-2016)
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-0.69	0.005	0.161	MEPS	15 (2002-2016)
Children ages 2-17 who had a preventive dental service in the calendar year	-0.68	0.003	0.019	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-0.65	0.002	0.015	MEPS	15 (2002-2016)
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-0.57	0.005	0.276	MEPS	15 (2002-2016)
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-0.47	0.003	0.151	MEPS	15 (2002-2016)
Women ages 50-74 who received a mammogram in the last 2 years	-0.44	0.011	0.716	NHIS	11 (2005-2015)
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-0.4	0.003	0.182	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-0.39	0.012	0.756	MEPS	9 (2008-2016)
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.31	0.006	0.647	NVSS_L	7 (2010-2016)
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	-0.27	0.005	0.592	MEPS	15 (2002-2016)
Live-born infants with low birth weight (less than 2,500 g)	0.03	0.001	0.749	NVSS_N	11 (2007-2017)
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	0.06	0.006	0.923	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	0.2	0.012	0.876	NHIS	9 (2009-2017)
Adults with a dental visit in the calendar year	0.28	0.001	0.024	MEPS	15 (2002-2016)
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	0.31	0.027	0.919	NHIS	10 (2008-2017)
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	0.56	0.006	0.379	MEPS	15 (2002-2016)
Adults who had a preventive dental service in the calendar year	0.58	0.001	0	MEPS	15 (2002-2016)
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	0.82	0.002	0.005	MEPS	14 (2003-2016)
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	0.85	0.007	0.231	MEPS	15 (2002-2016)
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	0.93	0.013	0.486	MEPS	15 (2002-2016)

Medium Metro Worsening

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	2.17	0.011	0.093	NSDUH	8 (2009-2016)
Suicide deaths among persons age 12 and over per 100,000 population	2.58	0.001	0	NVSS_M	9 (2008-2016)
Women ages 21-65 who received a Pap smear in the last 3 years	2.98	0.012	0.099	NHIS	11 (2005-2015)
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	8.08	0.008	0	HCUP	12 (2005-2016)
Emergency department visits involving opioid-related diagnoses per 100,000 population	10.21	0.006	0	HCUP_NED S	12 (2005-2016)

Small Metro Improving

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-13.81	0.012	0	NCDB	10 (2005-2014)
Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-7.19	0.014	0.001	NCDB	10 (2005-2014)
HIV infection deaths per 100,000 population	-6.34	0.004	0	NVSS_M	13 (2004-2016)
Children who had their height and weight measured by a health provider within the past 2 years	-5.44	0.018	0.009	MEPS	15 (2002-2016)
Children ages 0-17 with wellness checkup in the past 12 months	-4.77	0.01	0.003	NHIS	9 (2009-2017)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-4.59	0.011	0.001	MEPS	15 (2002-2016)
Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy)	-4.48	0.013	0.009	NCDB	10 (2005-2014)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-4.14	0.015	0.052	MEPS	6 (2011-2016)
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-3.29	0.008	0.001	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-3.27	0.005	0	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-3.15	0.006	0	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-3.09	0.014	0.061	MEPS	9 (2008-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-2.76	0.003	0	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-2.55	0.011	0.047	MEPS	14 (2002-2015)
Lung cancer deaths per 100,000 population per year	-2.5	0.001	0	NVSS_M	13 (2004-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-2.5	0.01	0.024	MEPS	15 (2002-2016)
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-2.47	0.006	0.002	MEPS	15 (2002-2016)
Children ages 3-5 who ever had their vision checked by a health provider	-2.25	0.008	0.014	MEPS	15 (2002-2016)
Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-2.17	0.003	0	MEPS	15 (2002-2016)
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-2.08	0.004	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-2.07	0.011	0.081	MEPS	15 (2002-2016)
Colorectal cancer deaths per 100,000 population per year	-1.81	0.001	0	NVSS_M	13 (2004-2016)
Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-1.64	0.006	0.012	MEPS	15 (2002-2016)
Breast cancer deaths per 100,000 female population per year	-1.56	0.002	0	NVSS_M	13 (2004-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-1.54	0.002	0.002	MEPS	6 (2011-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-1.52	0.003	0	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-1.33	0.007	0.073	MEPS	15 (2002-2016)

Small Metro Not Changing

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults age 65 and over who received an influenza vaccination in the last flu season	-1.26	0.019	0.527	NHIS	7 (2005-2011)
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	-1.21	0.014	0.389	MEPS	15 (2002-2016)
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-1.12	0.007	0.153	NHIS	7 (2005-2011)
Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor’s office or clinic visit in the last 12 months	-1.08	0.007	0.126	MEPS	15 (2002-2016)
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-0.96	0.004	0.037	MEPS	15 (2002-2016)
Children ages 2-17 who had a preventive dental service in the calendar year	-0.96	0.005	0.057	MEPS	15 (2002-2016)
Adults who had a doctor’s office or clinic in the last 12 months whose health providers always offered help in filling out forms	-0.91	0.004	0.107	MEPS	6 (2011-2016)
Children ages 2-17 who had a dental visit in the calendar year	-0.89	0.005	0.101	MEPS	15 (2002-2016)
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-0.76	0.005	0.183	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-0.75	0.007	0.3	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional to exercise more	-0.56	0.003	0.049	MEPS	15 (2002-2016)
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	-0.56	0.004	0.161	MEPS	15 (2002-2016)
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-0.49	0.023	0.849	NHIS	10 (2008-2017)
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-0.22	0.015	0.885	NHIS	9 (2009-2017)
Adults with a dental visit in the calendar year	-0.09	0.002	0.61	MEPS	15 (2002-2016)
Live-born infants with low birth weight (less than 2,500 g)	0.09	0.002	0.584	NVSS_N	11 (2007-2017)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	0.1	0.008	0.899	MEPS	15 (2002-2016)
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	0.12	0.013	0.928	NSDUH	8 (2009-2016)
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	0.15	0.003	0.562	MEPS	15 (2002-2016)
Adults who had a preventive dental service in the calendar year	0.19	0.002	0.334	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	0.36	0.009	0.682	MEPS	15 (2002-2016)
Adults age 65 and over who ever received pneumococcal vaccination	0.4	0.013	0.76	NHIS	7 (2005-2011)
Women ages 50-74 who received a mammogram in the last 2 years	0.67	0.011	0.603	NHIS	11 (2005-2015)
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	1.29	0.019	0.501	MEPS	15 (2002-2016)
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	1.4	0.013	0.312	NSDUH	8 (2009-2016)

Small Metro Worsening

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	1.09	0.005	0.045	MEPS	14 (2003-2016)
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	1.46	0.005	0.027	NVSS_L	7 (2010-2016)
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	1.72	0.005	0.002	MEPS	15 (2002-2016)
Suicide deaths among persons age 12 and over per 100,000 population	2.57	0.001	0	NVSS_M	9 (2008-2016)
Women ages 21-65 who received a Pap smear in the last 3 years	4.29	0.016	0.077	NHIS	11 (2005-2015)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	10.09	0.007	0	HCUP	12 (2005-2016)
Emergency department visits involving opioid-related diagnoses per 100,000 population	10.28	0.006	0	HCUP_NEDS	12 (2005-2016)

Micropolitan Improving

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-14.48	0.011	0	NCDB	10 (2005-2014)
Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-7.59	0.01	0	NCDB	10 (2005-2014)
Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy)	-5.9	0.015	0.004	NCDB	10 (2005-2014)
HIV infection deaths per 100,000 population	-5.04	0.004	0	NVSS_M	13 (2004-2016)
Children ages 0-17 with wellness checkup in the past 12 months	-4.66	0.013	0.011	NHIS	9 (2009-2017)
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-3.99	0.005	0	MEPS	15 (2002-2016)
Children who had their height and weight measured by a health provider within the past 2 years	-3.94	0.012	0.006	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-3.67	0.009	0.001	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-3.29	0.007	0	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-3.23	0.009	0.002	MEPS	15 (2002-2016)
Children ages 3-5 who ever had their vision checked by a health provider	-3.02	0.01	0.008	MEPS	15 (2002-2016)
Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	-3	0.008	0.003	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-2.74	0.006	0.01	MEPS	6 (2011-2016)
Adults age 65 and over who ever received pneumococcal vaccination	-2.72	0.008	0.015	NHIS	7 (2005-2011)
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-2.55	0.006	0.001	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-2.3	0.004	0	MEPS	15 (2002-2016)
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-2.07	0.006	0.004	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-1.98	0.007	0.017	MEPS	15 (2002-2016)
Lung cancer deaths per 100,000 population per year	-1.87	0.001	0	NVSS_M	13 (2004-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-1.85	0.003	0	MEPS	15 (2002-2016)
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-1.75	0.008	0.046	MEPS	15 (2002-2016)
Colorectal cancer deaths per 100,000 population per year	-1.72	0.001	0	NVSS_M	13 (2004-2016)
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-1.51	0.005	0.014	MEPS	15 (2002-2016)
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-1.47	0.005	0.038	NHIS	7 (2005-2011)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-1.43	0.003	0.001	MEPS	15 (2002-2016)
Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor’s office or clinic visit in the last 12 months	-1.42	0.006	0.03	MEPS	15 (2002-2016)
Breast cancer deaths per 100,000 female population per year	-1.23	0.001	0	NVSS_M	13 (2004-2016)
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-1.22	0.005	0.039	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional to exercise more	-1.06	0.004	0.018	MEPS	15 (2002-2016)

Micropolitan Not Changing

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults who had a doctor’s office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-2.6	0.019	0.231	MEPS	6 (2011-2016)
Adults age 65 and over who received in the calendar year at least 1 of 11 prescription medications that should be avoided in older adults	-2.44	0.017	0.195	MEPS	10 (2002-2011)
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-1.72	0.016	0.304	MEPS	9 (2008-2016)
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	-1.44	0.026	0.631	NHIS	10 (2008-2017)
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-1.3	0.01	0.217	MEPS	15 (2002-2016)
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-1.14	0.01	0.277	NSDUH	8 (2009-2016)
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.9	0.006	0.217	NVSS_L	7 (2010-2016)
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	-0.88	0.004	0.063	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-0.7	0.002	0.012	MEPS	15 (2002-2016)
Adults age 65 and over who received an influenza vaccination in the last flu season	-0.65	0.023	0.784	NHIS	7 (2005-2011)
Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-0.55	0.003	0.102	MEPS	15 (2002-2016)
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-0.54	0.006	0.402	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	-0.41	0.004	0.411	MEPS	6 (2011-2016)
Children ages 2-17 who had a preventive dental service in the calendar year	-0.37	0.003	0.237	MEPS	15 (2002-2016)
Children ages 2-17 who had a dental visit in the calendar year	-0.22	0.004	0.553	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-0.09	0.003	0.738	MEPS	15 (2002-2016)
Adults with a dental visit in the calendar year	-0.08	0.001	0.545	MEPS	15 (2002-2016)
Live-born infants with low birth weight (less than 2,500 g)	-0.08	0.001	0.611	NVSS_N	11 (2007-2017)
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	0.08	0.009	0.928	MEPS	15 (2002-2016)
Adults who had a preventive dental service in the calendar year	0.11	0.002	0.473	MEPS	15 (2002-2016)
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	0.22	0.019	0.914	NHIS	9 (2009-2017)
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	0.55	0.004	0.195	MEPS	15 (2002-2016)
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	0.95	0.013	0.493	NSDUH	8 (2009-2016)
Women ages 50-74 who received a mammogram in the last 2 years	1.22	0.013	0.407	NHIS	11 (2005-2015)
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	1.95	0.016	0.256	MEPS	15 (2002-2016)

Micropolitan Worsening

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	1.04	0.003	0.004	MEPS	14 (2003-2016)
Suicide deaths among persons age 12 and over per 100,000 population	2.61	0.001	0	NVSS_M	9 (2008-2016)
Adults age 40 and over with diagnosed diabetes who received at least two hemoglobin A1c measurements in the calendar year	2.67	0.012	0.053	MEPS	15 (2002-2016)
Women ages 21-65 who received a Pap smear in the last 3 years	3.73	0.009	0.028	NHIS	11 (2005-2015)

Noncore Improving

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	-13.73	0.014	0	NCDB	10 (2005-2014)
Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	-7.45	0.015	0.001	NCDB	10 (2005-2014)
HIV infection deaths per 100,000 population	-4.81	0.004	0	NVSS_M	13 (2004-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-4.74	0.012	0.002	MEPS	15 (2002-2016)
Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery (lumpectomy or mastectomy)	-4.71	0.016	0.019	NCDB	10 (2005-2014)
Adults age 65 and over who received in the calendar year at least 1 of 33 potentially inappropriate prescription medications for older adults	-3.85	0.01	0.002	MEPS	15 (2002-2016)
Children ages 0-17 with wellness checkup in the past 12 months	-3.7	0.013	0.03	NHIS	9 (2009-2017)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-3.41	0.009	0.002	MEPS	15 (2002-2016)
Children who had their height and weight measured by a health provider within the past 2 years	-3.17	0.015	0.047	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-3.07	0.01	0.011	MEPS	15 (2002-2016)
People with a usual source of care who usually asks about prescription medications and treatments from other doctors	-3.05	0.009	0.004	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-2.19	0.011	0.068	MEPS	15 (2002-2016)
Adults age 65 and over who ever received pneumococcal vaccination	-2.03	0.006	0.014	NHIS	7 (2005-2011)
Adults ages 18-64 at high risk (e.g., COPD) who ever received pneumococcal vaccination	-1.95	0.007	0.038	NHIS	7 (2005-2011)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-1.74	0.004	0.001	MEPS	15 (2002-2016)
Lung cancer deaths per 100,000 population per year	-1.62	0.001	0	NVSS_M	13 (2004-2016)
Colorectal cancer deaths per 100,000 population per year	-1.41	0.001	0	NVSS_M	13 (2004-2016)
Adults with obesity who ever received advice from a health professional to exercise more	-1.32	0.004	0.004	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-1.31	0.006	0.04	MEPS	15 (2002-2016)
Breast cancer deaths per 100,000 female population per year	-1.22	0.001	0	NVSS_M	13 (2004-2016)

Noncore Not Changing

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adults who had a doctor's office or clinic in the last 12 months whose health providers always asked them to describe how they will follow the instructions	-2.02	0.01	0.12	MEPS	6 (2011-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always gave them easy-to-understand instructions about what to do for a specific illness or health conditions	-1.9	0.017	0.324	MEPS	6 (2011-2016)
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	-1.75	0.021	0.445	NHIS	9 (2009-2017)
Adults age 40 and over with diagnosed diabetes who had their feet checked for sores or irritation in the calendar year	-1.7	0.015	0.261	MEPS	15 (2002-2016)
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-1.65	0.011	0.151	MEPS	15 (2002-2016)
Adults age 40 and over with diagnosed diabetes who received a flu vaccination in the calendar year	-1.57	0.019	0.426	MEPS	9 (2008-2016)
Rating of health care 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-1.11	0.008	0.183	MEPS	15 (2002-2016)
Adults with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-1.11	0.031	0.735	NSDUH	8 (2009-2016)
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	-1.1	0.017	0.567	MEPS	5 (2002-2006)
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	-1.07	0.007	0.124	MEPS	15 (2002-2016)
Children over 80 lbs for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-0.99	0.003	0.015	MEPS	13 (2002-2014)
Adults age 40 and over with diagnosed diabetes who received a dilated eye examination in the calendar year	-0.8	0.007	0.264	MEPS	15 (2002-2016)
Children 41-80 lbs for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-0.58	0.005	0.224	MEPS	15 (2002-2016)

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
Adult current smokers with a checkup in the last 12 months who received advice to quit smoking	-0.35	0.01	0.722	MEPS	15 (2002-2016)
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-0.31	0.003	0.323	MEPS	15 (2002-2016)
Adults with obesity who ever received advice from a health professional about eating fewer high-fat or high-cholesterol foods	-0.31	0.003	0.38	MEPS	15 (2002-2016)
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment for depression in the last 12 months	-0.25	0.016	0.882	NSDUH	8 (2009-2016)
Live-born infants with low birth weight (less than 2,500 g)	-0.16	0.001	0.316	NVSS_N	11 (2007-2017)
Children ages 2-17 who had a dental visit in the calendar year	-0.03	0.004	0.941	MEPS	15 (2002-2016)
Children for whom a health provider gave advice within the past 2 years about how smoking in the house can be bad for a child	0.02	0.005	0.957	MEPS	15 (2002-2016)
Children ages 2-17 who had a preventive dental service in the calendar year	0.07	0.004	0.866	MEPS	15 (2002-2016)
Adults age 65 and over who received an influenza vaccination in the last flu season	0.22	0.017	0.902	NHIS	7 (2005-2011)
Adults with a dental visit in the calendar year	0.37	0.002	0.048	MEPS	15 (2002-2016)
Adults who had a doctor's office or clinic in the last 12 months whose health providers always offered help in filling out forms	0.44	0.005	0.39	MEPS	6 (2011-2016)
Adults who had a preventive dental service in the calendar year	0.6	0.002	0.006	MEPS	15 (2002-2016)
Children 0-40 lbs for whom a health provider gave advice within the past 2 years about using a child safety seat while riding in the car	0.88	0.008	0.3	MEPS	13 (2002-2014)
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	1.06	0.006	0.116	NVSS_L	7 (2010-2016)
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	1.5	0.02	0.542	NHIS	10 (2008-2017)
Women ages 50-74 who received a mammogram in the last 2 years	1.89	0.018	0.363	NHIS	11 (2005-2015)
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	3.37	0.02	0.132	MEPS	13 (2002-2014)

Noncore Worsening

Measure	Average Annual Percent Change	SE	P Value	Data Source	Number of Years
People with current asthma who are now taking preventive medicine daily or almost daily (either oral or inhaler)	1.27	0.002	0	MEPS	14 (2003-2016)
Suicide deaths among persons age 12 and over per 100,000 population	2.76	0.002	0	NVSS_M	9 (2008-2016)
People unable to get or delayed in getting needed dental care due to financial or insurance reasons	3.1	0.008	0.012	MEPS	10 (2002-2011)
Women ages 21-65 who received a Pap smear in the last 3 years	4.07	0.006	0.005	NHIS	11 (2005-2015)
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	8.56	0.005	0	HCUP	12 (2005-2016)
Emergency department visits involving opioid-related diagnoses per 100,000 population	10.07	0.007	0	HCUP_NEDS	12 (2005-2016)

Measures Included in Figure 140. Number and percentage of quality measures with disparity at baseline for which disparities related to residence location were improving, not changing, or worsening, 2002 through 2011, 2014, 2015, 2016, or 2017

Large Central Metropolitan vs. Large Fringe Metropolitan

Disparities Between Large Central Metro and Large Fringe Metro Improving	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Hospital inpatient stays involving opioid-related diagnoses per 100,000 population	13.263	7.218	HCUP	2005-2016

Disparities Between Large Central Metro and Large Fringe Metro Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
People without a usual source of care who indicated a financial or insurance reason for not having a source of care	0.258	0.145	MEPS	2002-2016
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	0.126	-0.494	NHIS	2009-2017
HIV infection deaths per 100,000 population	-0.17	-0.476	NVSS_M	2004-2016
Adults age 65 and over who ever received pneumococcal vaccination	-0.768	-1.579	NHIS	2005-2011
Adults age 65 and over who received an influenza vaccination in the last flu season	-0.743	-1.214	NHIS	2005-2011
Children ages 0-17 with wellness checkup in the past 12 months	-0.677	-0.831	NHIS	2009-2017
Children who had their height and weight measured by a health provider within the past 2 years	-0.439	-0.579	MEPS	2002-2016
Children ages 2-17 who had a preventive dental service in the calendar year	-0.123	-0.534	MEPS	2002-2016
Children ages 2-17 who had a dental visit in the calendar year	-0.081	-0.484	MEPS	2002-2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	0.072	-0.083	NHIS	2008-2017
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.007	-0.018	NVSS_L	2010-2016
Adults with a dental visit in the calendar year	0.26	0.03	MEPS	2002-2016

Disparities Between Large Central Metro and Large Fringe Metro Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Adults who had a preventive dental service in the calendar year	0.367	0.199	MEPS	2002-2016
Women ages 21-65 who received a Pap smear in the last 3 years	0.332	0.464	NHIS	2005-2015
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never spent enough time with them	-0.451	-0.552	MEPS	2002-2016
Rating of healthcare 0-6 on a scale from 0 to 10 (best grade) by adults who had a doctor's office or clinic visit in the last 12 months	-0.289	-0.492	MEPS	2002-2016
People with a usual source of care whose providers sometimes or never asked them to help make decisions when there was a choice between treatments	-0.301	-0.424	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never explained things in a way they could understand	-0.259	-0.367	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never showed respect for what they had to say	-0.25	-0.3	MEPS	2002-2016
Adults who had a doctor's office or clinic visit in the last 12 months whose health providers sometimes or never listened carefully to them	-0.267	-0.29	MEPS	2002-2016

Disparities Between Large Central Metro and Large Fringe Metro Worsening	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
None				

Medium Metropolitan vs. Large Fringe Metropolitan

Disparities Between Medium Metro and Large Fringe Metro Improving	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	0.466	-0.788	MEPS	2002-2016

Disparities Between Medium Metro and Large Fringe Metro Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-0.117	-0.535	MEPS	2002-2016
HIV infection deaths per 100,000 population	-0.17	-0.175	NVSS_M	2004-2016
Suicide deaths among persons age 12 and over per 100,000 population	0.237	0.415	NVSS_M	2008-2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-1.268	-1.216	MEPS	2002-2016
Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-0.71	-1.108	MEPS	2002-2016
Children ages 0-17 with wellness checkup in the past 12 months	-0.677	-0.968	NHIS	2009-2017
Women ages 50-74 who received a mammogram in the last 2 years	0.118	-0.135	NHIS	2005-2015
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.007	-0.007	NVSS_L	2010-2016

Disparities Between Medium Metro and Large Fringe Metro Worsening	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
None				

Small Metropolitan vs. Large Fringe Metropolitan

Disparities Between Small Metro and Large Fringe Metro Improving	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
People unable to get or delayed in getting needed medical care due to financial or insurance reasons	0.466	-1.621	MEPS	2002-2016
People unable to get or delayed in getting needed prescription medicines due to financial or insurance reasons	-0.117	-1.605	MEPS	2002-2015

Disparities Between Small Metro and Large Fringe Metro Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Suicide deaths among persons age 12 and over per 100,000 population	0.237	0.445	NVSS_M	2008-2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-1.346	-1.833	MEPS	2002-2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-1.268	-1.607	MEPS	2002-2016
Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-0.701	-1.538	MEPS	2002-2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-0.335	-1.069	MEPS	2002-2016
Children ages 0-17 with wellness checkup in the past 12 months	-0.677	-0.995	NHIS	2009-2017
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	0.072	-0.041	NHIS	2008-2017
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.007	0.036	NVSS_L	2010-2016

Disparities Between Small Metro and Large Fringe Metro Worsening	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
None				

Micropolitan vs. Large Fringe Metropolitan

Disparities Between Micropolitan and Large Fringe Metro Improving	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
None				

Disparities Between Micropolitan and Large Fringe Metro Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	0.307	-0.101	MEPS	2002-2016

Disparities Between Micropolitan and Large Fringe Metro Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Lung cancer deaths per 100,000 population per year	-1.282	-0.991	NVSS_M	2004-2016
Suicide deaths among persons age 12 and over per 100,000 population	0.237	0.487	NVSS_M	2008-2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-1.346	-1.31	MEPS	2002-2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-1.268	-1.255	MEPS	2002-2016
Children ages 0-17 with wellness checkup in the past 12 months	-0.677	-1.144	NHIS	2009-2017
Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-0.71	-1.039	MEPS	2002-2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-0.335	-0.514	MEPS	2002-2016
Children who had their height and weight measured by a health provider within the past 2 years	-0.439	-0.452	MEPS	2002-2016
Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-0.701	-0.405	MEPS	2002-2016
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	0.072	-0.121	NHIS	2008-2017
Adults with a dental visit in the calendar year	0.26	-0.055	MEPS	2002-2016
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.007	-0.025	NVSS_L	2010-2016
Adults who had a preventive dental service in the calendar year	0.367	0.07	MEPS	2002-2016
Women ages 50-74 who received a mammogram in the last 2 years	0.118	0.401	NHIS	2005-2015

Disparities Between Micropolitan and Large Fringe Metro Worsening	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
None				

Noncore vs. Large Fringe Metropolitan

Disparities Between Noncore and Large Fringe Metro Improving	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
None				

Disparities Between Noncore and Large Fringe Metro Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
People under age 65 whose family's health insurance premium and out-of-pocket medical expenditures were more than 10% of total family income	0.307	-0.227	MEPS	2002-2016
Lung cancer deaths per 100,000 population per year	-1.282	-0.879	NVSS_M	2004-2016
Adults with chronic joint symptoms who have ever seen a doctor or other health professional for joint symptoms	0.126	-0.545	NHIS	2009-2017
Suicide deaths among persons age 12 and over per 100,000 population	0.237	0.562	NVSS_M	2008-2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about the amount and kind of exercise, sports, or physically active hobbies they should have	-1.346	-1.185	MEPS	2002-2016
Children ages 0-17 with wellness checkup in the past 12 months	-0.677	-0.938	NHIS	2009-2017
Children over 80 lb for whom a health provider gave advice within the past 2 years about using lap or shoulder belts when riding in a car	-0.701	-0.789	MEPS	2002-2014
Children ages 2-17 for whom a health provider gave advice within the past 2 years about eating healthy	-1.268	-0.745	MEPS	2002-2016
Children 41-80 lb for whom a health provider gave advice within the past 2 years about using a booster seat when riding in the car	-0.71	-0.435	MEPS	2002-2016
Children who had their height and weight measured by a health provider within the past 2 years	-0.439	-0.394	MEPS	2002-2016
Children ages 2-17 for whom a health provider gave advice within the past 2 years about using a helmet when riding a bicycle or motorcycle	-0.335	-0.241	MEPS	2002-2016
Children ages 2-17 who had a dental visit in the calendar year	-0.081	-0.018	MEPS	2002-2016
Infant mortality per 1,000 live births, birth weight 2,500 grams or more	-0.007	0.032	NVSS_L	2010-2016

Disparities Between Noncore and Large Fringe Metro Not Changing	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
Children ages 2-17 who had a preventive dental service in the calendar year	-0.123	0.048	MEPS	2002-2016
Adults with a dental visit in the calendar year	0.26	0.282	MEPS	2002-2016
Adults who had a preventive dental service in the calendar year	0.367	0.397	MEPS	2002-2016
Women ages 50-74 who received a mammogram in the last 2 years	0.118	0.64	NHIS	2005-2015
Women ages 21-65 who received a Pap smear in the last 3 years	0.332	0.844	NHIS	2005-2015

Disparities Between Noncore and Large Fringe Metro Worsening	Average Annual Change - Reference	Average Annual Change - Comparison	Data Source	Data Years
None				