

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

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

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

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