The SEER and Medicare CAHPS Linked Dataset

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SEER-CAHPS Sponsors

• Surveillance, Epidemiology and End Results (SEER) registries
• Centers for Medicare & Medicaid Services
  – Sarah Gaillot and Liz Goldstein
• National Cancer Institute (NCI)
  – Neeraj Arora, Steven Clauser, Erin Kent
• Technical assistance
  – Research Triangle Institute
  – Information Management Services, Inc.
SEER Registries

• Collect standardized clinical and demographic information for persons with newly diagnosed (incident) cancer in specific geographical areas.

• Began in 1973 and covers ~26% of U. S. population (http://seer.cancer.gov/registries/list.html)
  – States: California, Connecticut, Hawaii, Iowa, Kentucky, Louisiana, New Mexico, New Jersey, Utah
  – Metropolitan areas: Atlanta, Detroit, rural Georgia, Seattle-Puget Sound
SEER-CAHPS Data Sources

• CAHPS surveys fielded annually by CMS in all Medicare fee-for-service and Medicare Advantage plans from 1998-2013

• Clinical data from NCI’s SEER registries for CAHPS respondents who had cancer while living in a SEER region

• Medicare claims data for CAHPS FFS respondents who lived in a SEER region at the time of the survey
SEER-CAHPS Linkage: 1998-2013

Total Sample
4,467,618

Cancer Cases
231,089

Non-Cancer Cases
4,236,529
SEER-CAHPS Linkage: 1998-2013

Total Sample
4,467,618

Cancer Cases
231,089

Non-Cancer Cases
4,236,529

In SEER Region
816,155

Not in SEER
3,420,374
SEER-CAHPS Linkage: 1998-2013 Surveys

Total Sample
4,467,618

Cancer Cases
231,089
- FFS 85,050
- MA 146,039

Non-Cancer Cases
4,236,529
- In SEER Region
  816,155
  - FFS 294,489
  - MA 521,666
- Not in SEER
  3,420,374
  - FFS 1,402,275
  - MA 2,018,099
### CAHPS Survey Response Rates (1998-2010)

<table>
<thead>
<tr>
<th>Year</th>
<th>Surveys distributed</th>
<th>Surveys completed</th>
<th>Response rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1998</td>
<td>119,267</td>
<td>89,713</td>
<td>75%</td>
</tr>
<tr>
<td>1999</td>
<td>180,564</td>
<td>138,216</td>
<td>76%</td>
</tr>
<tr>
<td>2000</td>
<td>202,775</td>
<td>165,871</td>
<td>82%</td>
</tr>
<tr>
<td>2001</td>
<td>379,049</td>
<td>282,711</td>
<td>75%</td>
</tr>
<tr>
<td>2002</td>
<td>357,320</td>
<td>270,773</td>
<td>76%</td>
</tr>
<tr>
<td>2003</td>
<td>350,175</td>
<td>267,532</td>
<td>76%</td>
</tr>
<tr>
<td>2004</td>
<td>344,022</td>
<td>256,507</td>
<td>75%</td>
</tr>
<tr>
<td>2005</td>
<td>340,522</td>
<td>249,594</td>
<td>73%</td>
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<tr>
<td>2006</td>
<td>153,966</td>
<td>97,845</td>
<td>64%</td>
</tr>
<tr>
<td>2007</td>
<td>685,934</td>
<td>334,513</td>
<td>49%</td>
</tr>
<tr>
<td>2008</td>
<td>672,146</td>
<td>407,287</td>
<td>61%</td>
</tr>
<tr>
<td>2009</td>
<td>672,919</td>
<td>415,175</td>
<td>62%</td>
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<tr>
<td>2010</td>
<td>682,836</td>
<td>407,924</td>
<td>60%</td>
</tr>
</tbody>
</table>
Example NCI Research Questions

• Do perceptions of care differ among patients with versus without cancer?

• To what extent do cancer patients’ care experiences vary by race/ethnic subgroups?
  – Do these disparities vary by FFS or Managed Care?

• How are patient experiences with care associated with utilization of care for beneficiaries in FFS plans?
Data Available in 2016

- Rough cost estimate
Further Information


• Erin Kent, PhD, Epidemiologist and Program Director in the Outcomes Research Branch at NCI
  – http://healthcaredelivery.cancer.gov/about/staff/bios/kent.html

• ISOQOL Annual Conference, Breakfast Roundtables, October 23, 2015, 8 am-9 am
Thank you!

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