A Picture of Housing and Health

*Design of a Demonstration of Housing with Services to Enhance Aging in Place for Older Adults*
Task Objectives

• Match of 2008 HUD tenant-level administrative data to 2008 Medicare and Medicaid administrative data
  – 12 geographic areas of interest in this study

• Estimate enrollment of HUD assisted Medicare beneficiaries in select Federal health assistance programs
  – Medicare Part D (prescription drug) Low Income Subsidy (LIS)
  – Medicare Savings Program
  – Full Medicaid

• Compare Medicare and Medicaid cost and utilization for HUD assisted Medicare beneficiaries and unassisted beneficiaries in the community

*The data match and analyses constitute one task under a larger contract with ASPE and HUD, entitled “Design of a Demonstration of Housing with Services to Enhance Aging in Place for Older Adults.”*
12 Geographic Areas of Interest

- New Haven-Milford, CT
- Bridgeport-Stamford-Norwalk, CT
- Milwaukee-Waukesha-West Allis, WI
- San Francisco-Oakland-Fremont, CA
- Boston-Cambridge-Quincy, MA
- Durham-Chapel Hill, NC
- Richmond, VA
- New York-Northern New Jersey-Long Island
- Columbus, OH
- Akron, OH
- Cleveland, OH
- The entire state of Vermont

*Current analysis heavily biased by New York City metropolitan area (almost 60% of sample).
High Match Rate Between HUD and CMS Data

Medicare and Medicaid SSN Match Rate for HUD Assisted Housing Individuals, 2008

- **Age <65 years**
  - Medicare Only: 66.4%
  - Medicaid and Medicare: 1.2%
  - Medicaid Only: 5.8%

- **Age 65+ years**
  - Medicare Only: 63.0%
  - Medicaid and Medicare: 30.2%
  - Medicaid Only: 2.6%
Room for Improvement in Assistance Programs Enrollment

Proportion of Age 65+ HUD Assisted Medicare Beneficiaries Enrolled in Part D LIS and Medicaid, 2008

Note: Results reflect the proportion of HUD assisted Medicare beneficiaries enrolled and not the proportion of HUD assisted Medicare beneficiaries who are eligible for these programs based on the criteria (which includes income and other factors that can vary by state).
Higher Spending for Age 65+ HUD Assisted Medicare Beneficiaries

<table>
<thead>
<tr>
<th>Medicare per member per month (PMPM)</th>
<th>HUD Assisted</th>
<th>Unassisted</th>
<th>% Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1,479</td>
<td>$937</td>
<td>57.8%</td>
<td></td>
</tr>
</tbody>
</table>

*High spenders were defined as having total Medicare paid per member per month (PMPM) at or above 95% of all Medicare beneficiaries age 65+ or older.

Proportion of Medicare beneficiaries defined as high spenders:

- HUD assisted beneficiaries (n=180,338): 8.1%
- HUD unassisted beneficiaries in the community (n=2,843,291): 4.8%

Proportion of Medicare beneficiaries dually enrolled in Medicaid:

- HUD assisted beneficiaries (n=180,338): 70%
- HUD unassisted beneficiaries (n=2,843,291): 13%
HUD Assisted Medicare-Medicaid Enrollees (MMEs) Spend More in Both Programs: Medicare cost and service comparison

<table>
<thead>
<tr>
<th>Medicare services utilization per 1000 member months</th>
<th>HUD assisted MMEs</th>
<th>Unassisted MMEs</th>
<th>Percent Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>N = 112,045</td>
<td>N = 249,490</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Average Medicare PMPM**

<table>
<thead>
<tr>
<th>HUD assisted MME</th>
<th>Unassisted MME</th>
<th>Percent difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1,222</td>
<td>$1,054</td>
<td>16%</td>
</tr>
</tbody>
</table>

**Medicare covered services**

<table>
<thead>
<tr>
<th>Service</th>
<th>HUD assisted MME</th>
<th>Unassisted MME</th>
<th>Percent Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute stay admissions</td>
<td>31.4</td>
<td>29.4</td>
<td>6.8%</td>
</tr>
<tr>
<td>Hospital Readmissions</td>
<td>5.2</td>
<td>4.9</td>
<td>6.1%</td>
</tr>
<tr>
<td>Medicare home health visits</td>
<td>581.5</td>
<td>445.5</td>
<td>30.5%</td>
</tr>
<tr>
<td>Total emergency room visits</td>
<td>58.4</td>
<td>51.6</td>
<td>13.2%</td>
</tr>
<tr>
<td>Physician office visits</td>
<td>1,652.3</td>
<td>1,307.9</td>
<td>26.3%</td>
</tr>
<tr>
<td>Ambulatory surgery center visits</td>
<td>14.5</td>
<td>10.0</td>
<td>45.0%</td>
</tr>
</tbody>
</table>
HUD Assisted Medicare-Medicaid Enrollees (MMEs)* Spend More in Both Programs: Medicaid cost and service comparison

<table>
<thead>
<tr>
<th>Medicaid services utilization per 1000 member months</th>
<th>HUD assisted MMEs</th>
<th>Unassisted MMEs</th>
<th>Percent Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>N = 106,764</td>
<td>N = 227,186</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Medicaid covered services**

<table>
<thead>
<tr>
<th></th>
<th>HUD assisted MMEs</th>
<th>Unassisted MMEs</th>
<th>Percent Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal Care services</td>
<td>4,512.4</td>
<td>2,149.1</td>
<td>110.0%</td>
</tr>
<tr>
<td>DME</td>
<td>380.0</td>
<td>227.7</td>
<td>66.9%</td>
</tr>
<tr>
<td>Other HCBS services</td>
<td>3,309.8</td>
<td>1,840.6</td>
<td>79.8%</td>
</tr>
</tbody>
</table>

*Limited to individuals with Medicaid FFS (no Medicaid managed care in 2008).
Medicare and Medicaid PMPM Varies by Property Type Among HUD-assisted Beneficiaries

Section 811 & 202/162 was the ninth property type but is not included in the chart due to a small number of MME 65+ beneficiaries as residents (N=142). The Medicare PMPM was $1,174 and the Medicaid PMPM was $3,182.
Planned Additional Research

**Using current data**

- Refine match algorithm
- Identify HUD assisted beneficiaries eligible for Part D LIS or Medicaid based on eligibility criteria and calculate the proportion enrolled in programs
- Examine high and low spenders characteristics
- Conduct multivariate regressions to control for more characteristics

**Using additional data**

- Add Medicare timeline file to:
  - Compare NF service use between HUD assisted and unassisted beneficiaries because timeline uses MDS to flag NF use
  - Look at key events and paths following the event (e.g. hospital stay) and the associated costs.
Report URL and Contact Information

- Picture of Housing and Health: Medicare and Medicaid Use Among Older Adults in HUD-Assisted Housing
  - [Link](http://aspe.hhs.gov/daltcp/reports/2014/HUDpic.pdf)
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