2013 Hospital Cohort Profile:

ACADEMIC MEDICAL CENTERS

Academic Medical Centers (AMCs) are training institutions for medical school residents, like teaching hospitals. AMCs are characterized by more extensive research and teaching programs than teaching hospitals, as well as significant capacity for highly specialized and complex care (i.e., tertiary and quaternary). AMCs are also large in size; in 2013, the six AMCs in Massachusetts represented more than a quarter of all staffed hospital beds statewide. In FY13, AMCs accounted for 41% of total acute hospital revenue statewide; total AMC revenue was $10.4 billion. AMCs tend to have a greater proportion of commercial business than other hospitals, although 60% of their business is from Medicaid, Medicare, and other government programs. AMCs collectively earned a surplus each year from FY09 to FY13, with an aggregate surplus of $486 million in FY13.

TOTAL STAFFED BEDS: 3,886 in cohort, 27% of Statewide
MEDIAN % OCCUPANCY: 84%
MEDIAN CASE MIX INDEX IN FY13: 1.32, greater than CMI of other hospitals (0.83)
TOTAL DISCHARGES: 224,757 in cohort, 28% of Statewide
EMERGENCY DEPT. VISITS IN FY13: 510,523, 17% of Statewide

AVERAGE CY13 COMMERCIAL PAYER PRICE LEVEL: 75th Percentile
AVERAGE PUBLIC PAYER MIX: 60%
TOTAL REVENUE IN FY13: $10,400 million, 41% of Statewide
INPATIENT: OUTPATIENT REVENUE IN FY13: 48%-52%
ADJUSTED COST PER DISCHARGE: $12,225, >statewide median ($9,970)

AT A GLANCE

What were the FY12 to FY13 growth rates for this cohort for the following measures, and how do these compare to the growth rates of all other hospitals in the state?

<table>
<thead>
<tr>
<th>Measure</th>
<th>Cohort</th>
<th>Other Cohorts</th>
<th>Statewide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inpatient Net Revenue per CMAD</td>
<td>-1.8%</td>
<td>-1.2%</td>
<td></td>
</tr>
<tr>
<td>Inpatient Discharges</td>
<td>-3.1%</td>
<td>-2.9%</td>
<td></td>
</tr>
<tr>
<td>Outpatient Revenue</td>
<td>-1.8%</td>
<td>-1.5%</td>
<td></td>
</tr>
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<td>Outpatient Visits</td>
<td>-0.8%</td>
<td>0.2%</td>
<td></td>
</tr>
</tbody>
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SERVICES

What were the most common inpatient cases (DRGs) treated at the cohort hospitals? What proportion of statewide DRGs did this cohort treat for each service?

- Delivery DRGs (42,947) = 32% of statewide discharges were treated at these hospitals in FY13
- Sepsis & Dissem Inf (4,108) = 19%
- Heart Failure (3,858) = 18%
- Other Pneumonia (3,409) = 16%
- Maj Smi & Lrg Bowel Procs (2,848) = 34%
- Knee Joint Replacement (2,816) = 18%
- Percut Card proc w/o AMI (2,785) = 56%
- Cellulitis, Oth Bact Skin Inf (2,593) = 18%
- Chemotherapy (2,590) = 73%
- Hip Joint Replacement (2,512) = 21%

What was the inpatient severity distribution in this cohort? How does this compare to the inpatient severity distribution of other hospitals?

- Cohort: 9% of cases were of the highest severity in FY13
- Other Hospitals*: 8%
- of cases were of the lowest severity in FY13
- Cohort: 22% of cases were of the highest severity in FY13
- Other Hospitals*: 8%
- of cases were of the lowest severity in FY13

PAYER MIX

What was the average cohort hospital's payer mix (gross charges) in FY13, and how does this compare to the average of other acute hospitals' payer mix?

- Cohort:
  - Commercial & Other: 40%
  - State Programs: 23%
  - Medicare and Other Federal Programs: 37%

- Other Hospitals*:
  - Commercial & Other: 37%
  - State Programs: 19%
  - Medicare and Other Federal Programs: 44%

As a group, what were the cohort's average CY13 payer-specific relative price levels for the top three commercial payers in Massachusetts? How do these compare to the average relative price levels of other acute hospitals?

- Blue Cross Blue Shield of Massachusetts: Cohort RP Percentile
- Harvard Pilgrim Health Care: Cohort RP Percentile
- Tufts Health Plan: Cohort RP Percentile

For descriptions of the metrics, please see Technical Appendix.
For descriptions of the metrics, please see Technical Appendix.

Cohort

Other Hospitals

Massachusetts AMCs include six hospitals: Beth Israel Deaconess Medical Center, Boston Medical Center, Brigham and Women's Hospital, Massachusetts General Hospital, Tufts Medical Center, and UMass Memorial Medical Center.

Other hospitals comparative does not include Specialty hospitals.

Costs were adjusted to exclude direct medical education costs and physician compensation.

Delivery DRG includes Cesarean and Vaginal Deliveries, and Neonate DRG.

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