For commonly performed surgical procedures in children, clinical outcomes are equivalent at CH and NCH but these surgical procedures are associated with higher payments, therefore lower overall value care.

With increasing focus on value-based care, further research is needed to evaluate mechanisms to decrease costs and improve value at both CH and NCH.

RESULTS

- 368,220 underwent one of the procedures of interest
  - 32.3% at CH-A
  - 20.4% at CH-B
  - 47.3% at NCH
- Most common procedure: tonsillectomy and adenoidectomy with 104,163 cases performed. 54.9% performed at NCH
- Least common procedure: cholecystectomy with 426 procedures performed. 61.7% at NCH

Payments

Figure: Mean payments for common surgical procedures at children’s hospitals and non-children’s hospitals

Table: Regression adjusting for complex chronic conditions, zip code, year, month, surgery, surgery setting, and patient, hospital, county characteristics. *signifies significance with p<0.01

Regression Coefficients for Hospital Payments

<table>
<thead>
<tr>
<th>Procedure</th>
<th>CH-A Inpatient</th>
<th>CH-A Outpatient</th>
<th>CH-B Inpatient</th>
<th>CH-B Outpatient</th>
<th>NCH Inpatient</th>
<th>NCH Outpatient</th>
<th>Ref</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Procedures</td>
<td>0.39*</td>
<td>0.34*</td>
<td>-0.02</td>
<td>0.03</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tonsillectomy</td>
<td>0.30</td>
<td>0.46*</td>
<td>-0.04</td>
<td>0.02</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humerus fracture</td>
<td>0.15</td>
<td>0.27</td>
<td>-0.06</td>
<td>0.20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appendectomy</td>
<td>0.43*</td>
<td>0.33</td>
<td>-0.03</td>
<td>0.11</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Clinical Outcomes

- There was no difference in complications or readmissions at 30, 60, or 90 days at any of the hospital types

LIMITATIONS

- Only includes private insurers
- Did not evaluate referral practices or patient/family preferences
- Data is from 2010-2015
- Does not account for cost shifting
- Complications were obtained from administrative data