Surgical Site Infections (SSI)

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Surgical Site Infections

• **Data source** – CDC’s National Healthcare Safety Network (NHSN)

• **Metric** – Standardized Infection Ratio (SIR)

• **5 year target** – 25% reduction in SSIs following SCIP-like procedures on admission or readmission (SIR = 0.75)

• **Baseline period** – 2006-08
## Surgical Site Infections

<table>
<thead>
<tr>
<th></th>
<th>Baseline 06-08</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facilities reporting</td>
<td>801</td>
<td>946</td>
<td>1,385</td>
<td>2,130</td>
</tr>
<tr>
<td>States represented</td>
<td>43</td>
<td>44</td>
<td>45</td>
<td>49</td>
</tr>
<tr>
<td>Number of procedures</td>
<td>613,263</td>
<td>420,340</td>
<td>529,038</td>
<td>748,192</td>
</tr>
<tr>
<td>Overall SIR</td>
<td>N/A</td>
<td>0.98</td>
<td>0.92*</td>
<td>0.83*</td>
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<tr>
<td></td>
<td></td>
<td>(2% reduction)</td>
<td>(8% reduction)</td>
<td>(17% reduction)</td>
</tr>
</tbody>
</table>

*significantly less than 1.0
Role of SHDs in HAI Prevention

• State-based infrastructure for HAI prevention and response is extremely valuable

  – Identification of overperforming and underperforming facilities from NHSN data (allows for individual facility-level followup)

  – Prevention collaboratives within states and across continuum of care

  – Response to 2012 fungal meningitis outbreak
Comprehensive Use of NHSN Data

• **CDC National Annual Reports**
  – Device- and procedure-associated data summaries
  – State and national standardized infection ratio reports
  – HAI antimicrobial resistance data

• **CMS Facility/State/National Reports**
  – Preview reports for hospitals/hospital systems
  – Hospital Compare for public reporting
  – Hospital value-based purchasing for facility reimbursement

• **State and Local Health Departments**
  – Data required for public reporting

• **Quality Improvement Groups**
  – Quality improvement orgs (QIOs)
  – End-stage renal disease networks
  – Partnership for Patients Hospital Engagement Networks

• **Collaboratives**
  – Comprehensive unit-based safety program (CUSP)
  – State, regional, local initiatives

• **Research Groups**
  – Prevention of nosocomial infections and cost effectiveness (PNICE)
  – Preventing avoidable infections by adjusting payment (PAICAP)