### STS Measure- Prolonged Length of Stay following Valve Surgery

<table>
<thead>
<tr>
<th>Title</th>
<th>Valve Surgery – Prolonged Postoperative Length of Stay (PLOS)</th>
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</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Percentage of patients aged 18 years and older undergoing isolated valve surgery with an inpatient postoperative length of stay of more than 14 days whether patient is alive or dead at discharge</td>
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<tr>
<td><strong>Denominator</strong></td>
<td>Patients age 18 and older undergoing (1) isolated aortic valve replacement (AVR) (2) isolated mitral valve replacement (MVR); and (3) isolated mitral valve repair (MV Repair).</td>
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<tr>
<td><strong>Denominator Time Window</strong></td>
<td>12 months</td>
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<tr>
<td><strong>Numerator</strong></td>
<td>Number of patients undergoing isolated valve surgery with an inpatient postoperative length of stay of more than 14 days whether patient is alive or dead at discharge</td>
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<td><strong>Exclusions</strong></td>
<td>NA</td>
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<td><strong>Rationale</strong></td>
<td>Length of stay measures the number of days a patient spends in the hospital. Longer inpatient hospital stays increase cost and resource utilization. Analyzing the percentage of patients in this group will enable surgeons to identify patients at risk for prolonged length of stay and examine possible ways to mitigate risk, such as patient selection, timing of surgery, and optimal preoperative and postoperative management.</td>
</tr>
</tbody>
</table>
| **Evidence** | AVR  
Post-Procedure Length of Stay (days) in calendar 2013  
Mean................................................. 7.4  
Median............................................... 6.0  
25th Percentile..................................... 5.0  
75th Percentile.................................... 8.0  
PLOS >14 days .................................... 9.6%  
MVR  
Post-Procedure Length of Stay (days) in calendar 2013  
Mean................................................. 10.1  
Median............................................... 8.0  
25th Percentile..................................... 6.0  
75th Percentile.................................... 11  
PLOS >14 days ..................................... 15%  
MV Repair  
Post-Procedure Length of Stay (days) in calendar 2013  
Mean................................................. 6.5  
Median............................................... 5.0  
25th Percentile..................................... 4.0  
75th Percentile.................................... 7.0  
PLOS >14 days ..................................... 4.4%  
Details regarding the risk models are provided in the following publication:  