I-6 CT Resident Time Balance

Maintaining engagement in cardiothoracic surgery in the “early years”

TSDA General Session
January 23, 2016
The MUSC Six-Year Integrated Program in Cardiothoracic Surgery was approved in 2008 with the first trainees starting July, 2009. (Prior to case log requirements)
ACGME REQUIREMENT

Int.C.3.a) The integrated curriculum must document six years of clinical thoracic surgery education under the authority and direction of the thoracic surgery program director. The sequencing of the thoracic surgery educational components must be integrated throughout the program in order to provide a cohesive, progressive, and longitudinal educational experience. (Core)

Challenge – ABS Case Log Requirements for residents who started July, 2011
Int.C.3.b) A minimum of 24 months and a maximum of 36 months of the program must include education in core surgical education, including pre- and post-operative evaluation and care. The remainder of the curriculum must include education in oncology, transplantation, basic and advanced laparoscopic surgery, surgical critical care and trauma management, thoracic surgery, and adult and congenital cardiac surgery. (Core)
For Residents who start their training on or after July 1, 2011:

PGY 1-3: 375 operations averaged over 3 years of which 125 must be cardiothoracic operations, up to 50 which may be component cases that include sternotomy and closure, thoracotomy and closure, LIMA takedown, saphenous vein harvest, aortic and venous cannulation, proximal and distal anastomosis, other vascular anastomosis, gastric/esophageal mobilization).

PGY 1-6: 150 ABS index cases (see below).

<table>
<thead>
<tr>
<th>Category</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vascular</td>
<td>25</td>
</tr>
<tr>
<td>Skin/soft tissue/breast</td>
<td>10</td>
</tr>
<tr>
<td>Head/neck</td>
<td>5</td>
</tr>
<tr>
<td>Alimentary tract</td>
<td>20</td>
</tr>
<tr>
<td>Abdomen</td>
<td>30</td>
</tr>
<tr>
<td>Operative trauma</td>
<td>5</td>
</tr>
<tr>
<td>Pediatric</td>
<td>10</td>
</tr>
<tr>
<td>Plastic</td>
<td>5</td>
</tr>
<tr>
<td>Lap-basic</td>
<td>30</td>
</tr>
<tr>
<td>Lap-advanced</td>
<td>10</td>
</tr>
</tbody>
</table>
Integrating CT Surgery rotations is vital to keeping the junior I-6 resident engaged in cardiothoracic surgery in the first three years of the program.

The implementation of a five-month general surgery rotation at a local private facility has proven very successful in achieving and surpassing ABS case log requirements. MUSC residents are provided excellent exposure to a variety of general surgery cases in a relatively short time period allowing the program the flexibility to include CT Surgery rotations in the first three years of the six-year program.
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Vascular</td>
<td>25</td>
<td>46</td>
<td>87</td>
<td>66</td>
<td>29</td>
</tr>
<tr>
<td>Skin/soft tissue/breast</td>
<td>10</td>
<td>29</td>
<td>51</td>
<td>82</td>
<td>55</td>
</tr>
<tr>
<td>Head/neck</td>
<td>5</td>
<td>8</td>
<td>8</td>
<td>19</td>
<td>11</td>
</tr>
<tr>
<td>Alimentary Track</td>
<td>20</td>
<td>61</td>
<td>52</td>
<td>52</td>
<td>55</td>
</tr>
<tr>
<td>Abdomen</td>
<td>30</td>
<td>192</td>
<td>144</td>
<td>108</td>
<td>146</td>
</tr>
<tr>
<td>Operative Trauma</td>
<td>5</td>
<td>2</td>
<td>10</td>
<td>8</td>
<td>6</td>
</tr>
<tr>
<td>Pediatric</td>
<td>10</td>
<td>1</td>
<td>5</td>
<td>25</td>
<td>12</td>
</tr>
<tr>
<td>Plastic</td>
<td>5</td>
<td>5</td>
<td>7</td>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>Lap-basic</td>
<td>30</td>
<td>107</td>
<td>53</td>
<td>124</td>
<td>75</td>
</tr>
<tr>
<td>Lap-advanced</td>
<td>10</td>
<td>31</td>
<td>18</td>
<td>25</td>
<td>17</td>
</tr>
<tr>
<td>General Surgery</td>
<td>250</td>
<td>339</td>
<td>362</td>
<td>510</td>
<td>315</td>
</tr>
<tr>
<td>CT Surgery</td>
<td>125</td>
<td>209</td>
<td>158</td>
<td>314</td>
<td>136↑</td>
</tr>
<tr>
<td>YEAR ONE</td>
<td>THREE MONTHS (ONE MONTH EACH)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------</td>
<td>------------------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MUSC CT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>VA CT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>THORACIC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>YEAR TWO</td>
<td>THREE MONTHS (ONE MONTH EACH)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MUSC CT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>VA CT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>THORACIC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PLUS – TWO MONTHS CTICU</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>YEAR THREE</td>
<td>SEVEN MONTHS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>*Five-month general surgery rotation</td>
<td>MUSC CT (one month)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ADULT CARDIAC (three months)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>THORACIC (three months)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
GENERAL SURGERY AND CT SURGERY CONFERENCES AND DIDACTICS

PGY 1-3 GENERAL SURGERY PARTICIPATION

• ACS Fundamentals of Surgery Curriculum completion prior to start
• General Surgery Boot Camp / Orientation
• Junior Basic Science Conference attendance
• General Surgery Journal Club
• General Surgery Simulation Labs 1\textsuperscript{st} and 2\textsuperscript{nd} year

PGY 1-3 CARDIOTHORACIC SURGERY PARTICIPATION

• CT Surgery TSDA teaching sessions
  – Required to present one thoracic and one cardiac session each year
• Attendance at CT Surgery M&M Conference
  – Required to give three case presentations each year
• CT Surgery Division meeting attendance and participation
• CT Surgery Wet Labs
• CT Surgery Journal Club
Residents in Cardiothoracic Surgery at the Medical University of South Carolina are required to complete a minimum of one research project as a condition for completing the residency program. This requirement will be the same as other requirements for completing the program such as satisfactory performance on the in-service examination, oral examinations, and clinical performance. Residents will be required to submit a research proposal no later than December 31st of their PG4 year (Integrated Program)......
The junior six-year integrated resident is assigned cardiothoracic surgery call that does not interfere with learning experience (weekends) while on services that do not require call coverage.

- Heart transplant & CHF
- Imaging & Echo
- Perfusion & Anesthesia
- Interventional Radiology
- Endoscopy
- Trident General Surgery