### Variant 1: Follow-up of known thoracoabdominal aortic aneurysm or dissection without repair. Without or with new symptoms.

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Appropriateness Category</th>
<th>SOE</th>
<th>Adults RRL</th>
<th>Peds RRL</th>
<th>Rating</th>
<th>Median</th>
<th>Final Tabulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTA chest abdomen pelvis with IV contrast</td>
<td>Usually appropriate</td>
<td>Limited</td>
<td><img src="image" alt="Blood Pressure" /> 30-100 mSv</td>
<td></td>
<td>9</td>
<td>9</td>
<td>0 0 0 0 0 1 1 2 18</td>
</tr>
<tr>
<td>References</td>
<td></td>
<td>35 (24625611)</td>
<td>4</td>
<td></td>
<td>36 (28027791)</td>
<td>4</td>
<td>34 (19884165)</td>
</tr>
<tr>
<td>MRA chest abdomen pelvis without and with IV contrast</td>
<td>Usually appropriate</td>
<td>Strong</td>
<td><img src="image" alt="Blood Pressure" /> O 0 mSv</td>
<td><img src="image" alt="Blood Pressure" /> O 0 mSv [ped]</td>
<td>8</td>
<td>8</td>
<td>0 0 0 1 1 0 2 12 6</td>
</tr>
<tr>
<td>References</td>
<td></td>
<td>51 (24399340)</td>
<td>2</td>
<td></td>
<td>50 (20200628)</td>
<td>2</td>
<td>49 (20171907)</td>
</tr>
<tr>
<td>Study</td>
<td>Sensitivity</td>
<td>Specificity</td>
<td>Quality</td>
<td>References</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>-------------</td>
<td>-------------</td>
<td>---------</td>
<td>------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MRA chest abdomen pelvis without IV contrast</td>
<td>Usually appropriate</td>
<td>Strong</td>
<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
<td>7</td>
<td>7</td>
<td>0</td>
</tr>
<tr>
<td>References</td>
<td>Study Quality</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>52 (30694008)</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>53 (22415593)</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>51 (24399340)</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45 (27553926)</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>37 (17968882)</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>39 (20013276)</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>44 (28388971)</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 (20200628)</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CTA chest abdomen with IV contrast</td>
<td>May be appropriate</td>
<td>Expert Consensus</td>
<td>☢☢☢☢ 10-30 mSv</td>
<td>☢☢☢☢ 3-10 mSv [ped]</td>
<td>6</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>MRA chest and abdomen without IV contrast</td>
<td>May be appropriate</td>
<td>Expert Consensus</td>
<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
<td>6</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>MRA chest and abdomen without and with IV contrast</td>
<td>May be appropriate</td>
<td>Expert Consensus</td>
<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
<td>6</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>CT chest abdomen pelvis with IV contrast</td>
<td>May be appropriate</td>
<td>Expert Consensus</td>
<td>☢☢☢☢ 10-30 mSv</td>
<td>☢☢☢☢ 3-10 mSv [ped]</td>
<td>5</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>CT chest abdomen pelvis without IV contrast</td>
<td>May be appropriate</td>
<td>Strong</td>
<td>☢☢☢☢ 10-30 mSv</td>
<td>☢☢☢☢ 3-10 mSv [ped]</td>
<td>5</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>References</td>
<td>Study Quality</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30 (30835189)</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Procedure</td>
<td>Appropriate</td>
<td>Expert Consensus</td>
<td>Radiation Dose</td>
<td>Study Quality</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>-------------</td>
<td>------------------</td>
<td>----------------</td>
<td>---------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CT chest abdomen pelvis without and with IV contrast</strong></td>
<td>May be appropriate</td>
<td>☢☢☢☢ 10-30 mSv</td>
<td>5 5 0 0 0 1 11 6 3 1 0</td>
<td>33 (25623219) 4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CT chest and abdomen without and with IV contrast</strong></td>
<td>May be appropriate</td>
<td>☢☢☢☢ 10-30 mSv [ped]</td>
<td>4 4 0 2 8 4 6 1 1 0 0</td>
<td>31 (24503676) 4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CT chest and abdomen with IV contrast</strong></td>
<td>May be appropriate</td>
<td>☢☢☢☢ 10-30 mSv</td>
<td>4 4 0 2 9 2 6 2 1 0 0</td>
<td>29 (22451563) 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>US duplex Doppler aorta abdomen</strong></td>
<td>Usually not appropriate</td>
<td>O 0 mSv</td>
<td>3 3 4 5 9 3 1 0 0 0 0</td>
<td>11 (15235219)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>US echocardiography transthoracic resting</strong></td>
<td>Usually not appropriate</td>
<td>O 0 mSv</td>
<td>3 3 3 8 9 1 1 0 0 0 0</td>
<td>5 (23543219)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Radiography chest</strong></td>
<td>Usually not appropriate</td>
<td>☢ &lt;0.1 mSv</td>
<td>3 3 5 5 9 2 1 0 0 0 0</td>
<td>57 (20823280) 4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CT chest and abdomen without IV contrast</strong></td>
<td>Usually not appropriate</td>
<td>☢☢☢☢ 10-30 mSv</td>
<td>3 3 2 4 6 3 5 1 1 0 0</td>
<td>53 (22415593) 3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

References:
- 43 (31054559) 4
- 56 (15838577) 3
- 58 (25529153) 4
- 33 (25623219) 4
- 57 (20823280) 4
- 55 (14715319) 1
- 54 (26724510) 4
- 53 (22415593) 3
<table>
<thead>
<tr>
<th>Procedure</th>
<th>Appropriateness Category</th>
<th>SOE</th>
<th>Adults RRL</th>
<th>Peds RRL</th>
<th>Rating</th>
<th>Median</th>
<th>Final Tabulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aortography chest abdomen pelvis</td>
<td>Usually not appropriate</td>
<td>Limited</td>
<td>☢☢☢☢ 10-30 mSv</td>
<td>3</td>
<td>3</td>
<td>5</td>
<td>4 7 2 2 0 0 0 0</td>
</tr>
<tr>
<td>Radiography chest abdomen pelvis</td>
<td>Usually not appropriate</td>
<td>Limited</td>
<td>☢☢ 1-10 mSv</td>
<td>2</td>
<td>2</td>
<td>9</td>
<td>6 7 0 0 0 0 0 0 0</td>
</tr>
</tbody>
</table>

**Variant 2:** Planning for endovascular or open repair of thoracoabdominal aorta aneurysm or dissection.

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Appropriateness Category</th>
<th>SOE</th>
<th>Adults RRL</th>
<th>Peds RRL</th>
<th>Rating</th>
<th>Median</th>
<th>Final Tabulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTA chest abdomen pelvis with IV contrast</td>
<td>Usually appropriate</td>
<td>Strong</td>
<td>☢☢☢☢ 30-100 mSv</td>
<td>9</td>
<td>9</td>
<td>1</td>
<td>0 0 0 0 1 0 2 18</td>
</tr>
</tbody>
</table>

**References**

<table>
<thead>
<tr>
<th>References</th>
<th>Study Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>27 (29613964)</td>
<td>4</td>
</tr>
<tr>
<td>28 (12694105)</td>
<td>2</td>
</tr>
<tr>
<td>55 (14715319)</td>
<td>1</td>
</tr>
<tr>
<td>54 (26724510)</td>
<td>4</td>
</tr>
<tr>
<td>53 (22415593)</td>
<td>3</td>
</tr>
<tr>
<td>68 (31705825)</td>
<td>3</td>
</tr>
<tr>
<td>72 (29080918)</td>
<td>2</td>
</tr>
<tr>
<td>71 (26344681)</td>
<td>3</td>
</tr>
<tr>
<td>70 (17306951)</td>
<td>1</td>
</tr>
<tr>
<td>69 (26497024)</td>
<td>3</td>
</tr>
<tr>
<td>67 (22021522)</td>
<td>2</td>
</tr>
<tr>
<td>66 (22459348)</td>
<td>2</td>
</tr>
<tr>
<td>65 (31635962)</td>
<td>2</td>
</tr>
<tr>
<td>64 (30855116)</td>
<td>4</td>
</tr>
<tr>
<td>63 (22176725)</td>
<td>4</td>
</tr>
<tr>
<td>62 (12618702)</td>
<td>1</td>
</tr>
<tr>
<td>References</td>
<td>Study Quality</td>
</tr>
<tr>
<td>------------</td>
<td>--------------</td>
</tr>
<tr>
<td>MRA chest abdomen pelvis without and with IV contrast</td>
<td>Usually appropriate</td>
</tr>
<tr>
<td>73 (23047141)</td>
<td>2</td>
</tr>
<tr>
<td>72 (29080918)</td>
<td>2</td>
</tr>
<tr>
<td>71 (26344681)</td>
<td>3</td>
</tr>
<tr>
<td>68 (31705825)</td>
<td>3</td>
</tr>
<tr>
<td>65 (31635962)</td>
<td>2</td>
</tr>
<tr>
<td>14 (26792544)</td>
<td>1</td>
</tr>
<tr>
<td>14 (26792544)</td>
<td>1</td>
</tr>
<tr>
<td>14 (26792544)</td>
<td>1</td>
</tr>
<tr>
<td>38 (22386146)</td>
<td>2</td>
</tr>
<tr>
<td>62 (12618702)</td>
<td>1</td>
</tr>
<tr>
<td>64 (30855116)</td>
<td>4</td>
</tr>
<tr>
<td>67 (22021522)</td>
<td>2</td>
</tr>
<tr>
<td>70 (17306951)</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>References</th>
<th>Study Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRA chest abdomen pelvis without IV contrast</td>
<td>Usually appropriate</td>
</tr>
<tr>
<td>61 (23392427)</td>
<td>1</td>
</tr>
<tr>
<td>63 (22176725)</td>
<td>4</td>
</tr>
<tr>
<td>74 (29162027)</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>References</th>
<th>Study Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTA chest and abdomen with IV contrast</td>
<td>May be appropriate (Disagreement)</td>
</tr>
<tr>
<td>61 (23392427)</td>
<td>1</td>
</tr>
<tr>
<td>63 (22176725)</td>
<td>4</td>
</tr>
<tr>
<td>74 (29162027)</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>References</th>
<th>Study Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT chest abdomen pelvis with IV contrast</td>
<td>May be appropriate (Disagreement)</td>
</tr>
<tr>
<td>Procedure</td>
<td>Appropriateness</td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>CT chest abdomen pelvis without IV contrast</td>
<td>May be appropriate (Disagreement)</td>
</tr>
<tr>
<td>MRA chest and abdomen without IV contrast</td>
<td>May be appropriate (Disagreement)</td>
</tr>
<tr>
<td>CT chest abdomen pelvis without IV contrast</td>
<td>Usually not appropriate</td>
</tr>
<tr>
<td>MRA chest and abdomen without IV contrast</td>
<td>Usually not appropriate</td>
</tr>
<tr>
<td>CT chest and abdomen without IV contrast</td>
<td>Usually not appropriate</td>
</tr>
<tr>
<td>CT chest and abdomen without IV contrast</td>
<td>Usually not appropriate</td>
</tr>
<tr>
<td>CT chest and abdomen with IV contrast</td>
<td>Usually not appropriate</td>
</tr>
<tr>
<td>Aortography chest abdomen pelvis</td>
<td>Usually not appropriate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Appropriateness</th>
<th>Expert Opinion</th>
<th>Radiation Dose</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>US duplex Doppler aorta abdomen</td>
<td>Usually not appropriate</td>
<td>Expert Consensus</td>
<td>O 0 mSv</td>
<td>2</td>
</tr>
<tr>
<td>US echocardiography transthoracic resting</td>
<td>Usually not appropriate</td>
<td>Limited</td>
<td>O 0 mSv</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Appropriateness</th>
<th>Expert Opinion</th>
<th>Radiation Dose</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radiography chest</td>
<td>Usually not appropriate</td>
<td>Expert Consensus</td>
<td>☢ &lt;0.1 mSv</td>
<td>2</td>
</tr>
</tbody>
</table>
Radiography chest abdomen pelvis | Usually not appropriate | Expert Consensus | ☢☢☢ 1-10 mSv | 1 | 1 | 15 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0

Variant 3: Follow-up after endovascular repair of thoracoabdominal aortic aneurysm or dissection.

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Appropriateness Category</th>
<th>SOE</th>
<th>Adults RRL</th>
<th>Peds RRL</th>
<th>Rating</th>
<th>Median</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTA chest abdomen pelvis with IV contrast</td>
<td>Usually appropriate</td>
<td>Strong</td>
<td>☢☢☢☢☢ 30-100 mSv</td>
<td>9</td>
<td>9</td>
<td>0</td>
</tr>
</tbody>
</table>

References

<table>
<thead>
<tr>
<th>References</th>
<th>Study Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>83 (20924762)</td>
<td>3</td>
</tr>
<tr>
<td>84 (28662928)</td>
<td>4</td>
</tr>
<tr>
<td>82 (27542700)</td>
<td>4</td>
</tr>
<tr>
<td>81 (27436027)</td>
<td>1</td>
</tr>
<tr>
<td>80 (23465175)</td>
<td>4</td>
</tr>
<tr>
<td>79 (23403221)</td>
<td>4</td>
</tr>
<tr>
<td>78 (19104821)</td>
<td>2</td>
</tr>
<tr>
<td>32 (23711975)</td>
<td>3</td>
</tr>
<tr>
<td>17 (24246537)</td>
<td>3</td>
</tr>
<tr>
<td>14 (26792544)</td>
<td>1</td>
</tr>
<tr>
<td>77 (24480084)</td>
<td>2</td>
</tr>
</tbody>
</table>

MRA chest abdomen pelvis without and with IV contrast | Usually appropriate | Strong | ☢ 0 mSv | ☢ 0 mSv [ped] | 8 | 8 | 0 | 0 | 0 | 1 | 2 | 1 | 6 | 8 | 4

References

<table>
<thead>
<tr>
<th>References</th>
<th>Study Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>88 (27357219)</td>
<td>1</td>
</tr>
<tr>
<td>87 (14718808)</td>
<td>2</td>
</tr>
<tr>
<td>86 (16630731)</td>
<td>3</td>
</tr>
<tr>
<td>85 (18307209)</td>
<td>4</td>
</tr>
<tr>
<td>84 (28662928)</td>
<td>4</td>
</tr>
<tr>
<td>83 (20924762)</td>
<td>3</td>
</tr>
<tr>
<td>Procedure</td>
<td>Appropriateness</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>MRA chest abdomen pelvis without IV contrast</td>
<td>May be</td>
</tr>
<tr>
<td></td>
<td>appropriate</td>
</tr>
<tr>
<td></td>
<td>Limited</td>
</tr>
<tr>
<td></td>
<td>O 0 mSv</td>
</tr>
<tr>
<td></td>
<td>O 0 mSv [ped]</td>
</tr>
<tr>
<td>CTA chest and abdomen with IV contrast</td>
<td>May be</td>
</tr>
<tr>
<td></td>
<td>appropriate</td>
</tr>
<tr>
<td></td>
<td>(Disagreement)</td>
</tr>
<tr>
<td></td>
<td>Expert Opinion</td>
</tr>
<tr>
<td></td>
<td>10-30 mSv</td>
</tr>
<tr>
<td>CT chest abdomen pelvis with IV contrast</td>
<td>May be</td>
</tr>
<tr>
<td></td>
<td>appropriate</td>
</tr>
<tr>
<td></td>
<td>Expert Consensus</td>
</tr>
<tr>
<td></td>
<td>10-30 mSv</td>
</tr>
<tr>
<td></td>
<td>3-10 mSv [ped]</td>
</tr>
<tr>
<td>CT chest abdomen pelvis without and with IV contrast</td>
<td>May be</td>
</tr>
<tr>
<td></td>
<td>appropriate</td>
</tr>
<tr>
<td></td>
<td>Expert Consensus</td>
</tr>
<tr>
<td></td>
<td>10-30 mSv</td>
</tr>
<tr>
<td></td>
<td>10-30 mSv [ped]</td>
</tr>
<tr>
<td>MRA chest and abdomen without and with IV contrast</td>
<td>May be</td>
</tr>
<tr>
<td></td>
<td>appropriate</td>
</tr>
<tr>
<td></td>
<td>(Disagreement)</td>
</tr>
<tr>
<td></td>
<td>Expert Opinion</td>
</tr>
<tr>
<td></td>
<td>O 0 mSv</td>
</tr>
<tr>
<td></td>
<td>O 0 mSv [ped]</td>
</tr>
<tr>
<td>Aortography chest abdomen pelvis</td>
<td>May be</td>
</tr>
<tr>
<td></td>
<td>appropriate</td>
</tr>
<tr>
<td></td>
<td>(Disagreement)</td>
</tr>
<tr>
<td></td>
<td>Expert Opinion</td>
</tr>
<tr>
<td></td>
<td>10-30 mSv</td>
</tr>
<tr>
<td>References</td>
<td></td>
</tr>
<tr>
<td>Study Quality</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>0</td>
</tr>
<tr>
<td>References</td>
<td></td>
</tr>
<tr>
<td>Study Quality</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>1</td>
</tr>
<tr>
<td>CT chest abdomen pelvis without IV contrast</td>
<td>May be</td>
</tr>
<tr>
<td></td>
<td>appropriate</td>
</tr>
<tr>
<td></td>
<td>Limited</td>
</tr>
<tr>
<td></td>
<td>10-30 mSv</td>
</tr>
<tr>
<td></td>
<td>3-10 mSv [ped]</td>
</tr>
</tbody>
</table>

References:
- 82 (27542700)
- 80 (23465175)
- 79 (23403221)
- 78 (19104821)
- 20 (30792053)
- 17 (24246537)
- 14 (26792544)
- 76 (29460048)
- 89 (31075419)
- 27 (29613964)
- 76 (29460048)
- 75 (10751479)
<table>
<thead>
<tr>
<th>Procedure</th>
<th>Expert Consensus</th>
<th>Study Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRA chest and abdomen without IV contrast</td>
<td>May be appropriate</td>
<td>0 mSv [ped]</td>
</tr>
<tr>
<td>US duplex Doppler aorta abdomen</td>
<td>Usually not appropriate</td>
<td>0 mSv [ped]</td>
</tr>
<tr>
<td>US echocardiography transthoracic resting</td>
<td>Usually not appropriate</td>
<td>0 mSv [ped]</td>
</tr>
<tr>
<td>Radiography chest</td>
<td>Usually not appropriate</td>
<td>0.1 mSv [ped]</td>
</tr>
<tr>
<td>Radiography chest abdomen pelvis</td>
<td>Usually not appropriate</td>
<td>1-10 mSv</td>
</tr>
<tr>
<td>Procedure</td>
<td>Appropriateness Category</td>
<td>SOE</td>
</tr>
<tr>
<td>-----------------------------------------------------</td>
<td>--------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>CT chest and abdomen without IV contrast</td>
<td>Usually not appropriate</td>
<td>Expert Consensus</td>
</tr>
<tr>
<td>CT chest and abdomen with IV contrast</td>
<td>Usually not appropriate</td>
<td>Expert Consensus</td>
</tr>
<tr>
<td>CT chest and abdomen with IV contrast</td>
<td>Usually not appropriate</td>
<td>Expert Consensus</td>
</tr>
</tbody>
</table>

**Variant 4:** Follow-up after open repair of thoracoabdominal aortic aneurysm or dissection.

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Appropriateness Category</th>
<th>SOE</th>
<th>Adults RRL</th>
<th>Peds RRL [ped]</th>
<th>Rating</th>
<th>Median</th>
<th>Final Tabulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTA chest abdomen pelvis with IV contrast</td>
<td>Usually appropriate</td>
<td>Limited</td>
<td>☢☢☢☢☢ 30-100 mSv</td>
<td></td>
<td>9</td>
<td>9</td>
<td>0 2 0 0 0 1 1 4 14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Appropriateness Category</th>
<th>SOE</th>
<th>Adults RRL</th>
<th>Peds RRL [ped]</th>
<th>Rating</th>
<th>Median</th>
<th>Final Tabulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRA chest abdomen pelvis without IV contrast</td>
<td>Usually appropriate</td>
<td>Limited</td>
<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
<td>8</td>
<td>8</td>
<td>0 0 0 0 2 1 4 9 6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Appropriateness Category</th>
<th>SOE</th>
<th>Adults RRL</th>
<th>Peds RRL [ped]</th>
<th>Rating</th>
<th>Median</th>
<th>Final Tabulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTA chest and abdomen with IV contrast</td>
<td>May be appropriate</td>
<td>Expert Consensus</td>
<td>☢☢☢☢ 10-30 mSv</td>
<td></td>
<td>6</td>
<td>6</td>
<td>0 0 0 0 9 6 6 1 0</td>
</tr>
<tr>
<td>MRA chest abdomen without IV contrast</td>
<td>May be appropriate</td>
<td>Expert Consensus</td>
<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
<td>6</td>
<td>6</td>
<td>0 0 0 0 9 9 4 0 0</td>
</tr>
<tr>
<td>MRA chest abdomen pelvis without IV contrast</td>
<td>May be appropriate</td>
<td>Strong</td>
<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
<td>6</td>
<td>6</td>
<td>0 0 0 1 4 9 6 1 1</td>
</tr>
<tr>
<td>References</td>
<td>Study Quality</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------------</td>
<td>---------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>51 (24399340)</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45 (27553926)</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>39 (20013276)</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>38 (22386146)</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>34 (19884165)</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>33 (25623219)</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>37 (17968882)</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>44 (28388971)</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 (20200628)</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| CT chest abdomen pelvis with IV contrast | May be appropriate | Expert Consensus | 10-30 mSv | 3-10 mSv [ped] | 5 | 5 | 0 | 1 | 0 | 3 | 14 | 3 | 1 | 0 | 0 |
| CT chest abdomen pelvis without IV contrast | May be appropriate | Strong          | 10-30 mSv | 3-10 mSv [ped] | 5 | 5 | 0 | 0 | 2 | 7 | 12 | 1 | 0 | 0 | 0 |

<table>
<thead>
<tr>
<th>References</th>
<th>Study Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>31 (24503676)</td>
<td>4</td>
</tr>
<tr>
<td>30 (30835189)</td>
<td>1</td>
</tr>
<tr>
<td>29 (22451563)</td>
<td>2</td>
</tr>
</tbody>
</table>

<p>| CT chest abdomen pelvis without and with IV contrast | May be appropriate | Expert Consensus | 10-30 mSv | 10-30 mSv [ped] | 5 | 5 | 0 | 0 | 1 | 5 | 14 | 5 | 0 | 0 | 1 |
| MRA chest and abdomen without IV contrast | May be appropriate | Expert Consensus | O 0 mSv | O 0 mSv [ped] | 5 | 5 | 0 | 0 | 2 | 12 | 5 | 2 | 0 | 0 |
| CT chest and abdomen without and with IV contrast | May be appropriate | Expert Consensus | 10-30 mSv | 10-30 mSv [ped] | 5 | 5 | 0 | 0 | 1 | 5 | 14 | 2 | 0 | 0 | 0 |
| CT chest and abdomen with IV contrast | May be appropriate | Expert Consensus | 10-30 mSv | 10-30 mSv [ped] | 5 | 5 | 0 | 0 | 1 | 8 | 11 | 2 | 0 | 0 | 0 |
| CT chest and abdomen without IV contrast | Usually not appropriate | Expert Consensus | 10-30 mSv | | 3 | 3 | 3 | 3 | 9 | 0 | 6 | 1 | 0 | 0 | 0 |</p>
<table>
<thead>
<tr>
<th>Procedure</th>
<th>Appropriateness</th>
<th>Dosimetry</th>
<th>References</th>
<th>Study Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>US duplex Doppler aorta abdomen</td>
<td>Usually not appropriate</td>
<td>Limited 0 mSv, 0 mSv [ped]</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>US echocardiography transthoracic resting</td>
<td>Usually not appropriate</td>
<td>Limited 0 mSv, 0 mSv [ped]</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Aortography chest abdomen pelvis</td>
<td>Usually not appropriate</td>
<td>Limited ⊙⊠⊡ 10-30 mSv</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Radiography chest</td>
<td>Usually not appropriate</td>
<td>Expert Consensus ⊙&lt;0.1 mSv, ⊙&lt;0.03 mSv [ped]</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Radiography chest abdomen pelvis</td>
<td>Usually not appropriate</td>
<td>Expert Consensus ⊙⊠⊡ 1-10 mSv</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>
Appendix Key
A more complete discussion of the items presented below can be found by accessing the supporting documents at the designated hyperlinks.

**Appropriateness Category**: The panel's recommendation for a procedure based on the assessment of the risks and benefits of performing the procedure for the specified clinical scenario.

**SOE**: Strength of Evidence. The assessment of the amount and quality of evidence found in the peer reviewed medical literature for an appropriateness recommendation.

- **References**: The citation number and PMID for the reference(s) associated with the recommendation.
- **Study Quality**: The assessment of the quality of an individual reference based on the number of study quality elements described in the reference.

**RRL**: Relative Radiation Level. A population based assessment of the amount of radiation a typical patient may be exposed to during the specified procedure.

**Rating**: The final rating (1-9 scale) for the procedure as determined by the panel during rating rounds.

**Median**: The median rating (1-9 scale) for the procedure as determined by the panel during rating rounds.

**Final tabulations**: A histogram showing the number of panel members who rated the procedure as noted in the column heading (ie, 1, 2, 3, etc.).

Additional supporting documents about the AC methodology and processes can be found at [www.acr.org/ac](http://www.acr.org/ac).