American College of Radiology  
ACR Appropriateness Criteria®  

Imaging of Possible Tuberculosis

### Variant 1: Suspect active tuberculosis.

<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>X-ray chest</td>
<td>Usually appropriate</td>
<td>☢️ &lt;0.1 mSv</td>
<td>☢️ &lt;0.03 mSv</td>
<td>9</td>
<td>n/a</td>
<td>0 0 0 0 0 0 0 0 0</td>
<td></td>
</tr>
<tr>
<td>CT chest without IV contrast</td>
<td>Usually appropriate</td>
<td>☢️☢️ 1-10 mSv</td>
<td>☢️☢️☢️ 3-10 mSv [ped]</td>
<td>7</td>
<td>n/a</td>
<td>0 0 0 0 0 0 0 0 0</td>
<td></td>
</tr>
<tr>
<td>CT chest with IV contrast</td>
<td>May be appropriate</td>
<td>☢️☢️ 1-10 mSv</td>
<td>☢️☢️☢️ 3-10 mSv [ped]</td>
<td>6</td>
<td>n/a</td>
<td>0 0 0 0 0 0 0 0 0</td>
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</tr>
<tr>
<td>MRI chest without IV contrast</td>
<td>Usually not appropriate</td>
<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
<td>3</td>
<td>n/a</td>
<td>0 0 0 0 0 0 0 0 0</td>
<td></td>
</tr>
<tr>
<td>MRI chest without and with IV</td>
<td>Usually not appropriate</td>
<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
<td>3</td>
<td>n/a</td>
<td>0 0 0 0 0 0 0 0 0</td>
<td></td>
</tr>
<tr>
<td>CT chest without and with IV</td>
<td>Usually not appropriate</td>
<td>☢️☢️ 1-10 mSv</td>
<td>☢️☢️☢️ 3-10 mSv [ped]</td>
<td>3</td>
<td>n/a</td>
<td>0 0 0 0 0 0 0 0 0</td>
<td></td>
</tr>
</tbody>
</table>

### Variant 2: Newly positive PPD or IGRA OR positive PPD or IGRA with unknown prior status. No clinical 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>X-ray chest</td>
<td>Usually</td>
<td>☢️ &lt;0.1 mSv</td>
<td>☢️ &lt;0.03</td>
<td>9</td>
<td>n/a</td>
<td>0 0 0 0 0 0 0 0 0</td>
<td></td>
</tr>
<tr>
<td>Procedure</td>
<td>Appropriateness Category</td>
<td>SOE</td>
<td>Adults RRL</td>
<td>Peds RRL</td>
<td>Rating</td>
<td>Median</td>
<td>Final Tabulations</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>--------------------------</td>
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<td>-----------------</td>
<td>--------</td>
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<td>-------------------</td>
</tr>
<tr>
<td>CT chest with IV contrast</td>
<td>usually appropriate</td>
<td></td>
<td>☢☢☢ 1-10 mSv</td>
<td>☢☢☢☢ 3-10 mSv [ped]</td>
<td>4</td>
<td>n/a</td>
<td>1 2 3 4 5 6 7 8 9</td>
</tr>
<tr>
<td>CT chest without IV contrast</td>
<td>usually not appropriate</td>
<td></td>
<td>☢☢☢ 1-10 mSv</td>
<td>☢☢☢☢ 3-10 mSv [ped]</td>
<td>3</td>
<td>n/a</td>
<td>1 2 3 4 5 6 7 8 9</td>
</tr>
<tr>
<td>MRI chest without IV contrast</td>
<td>usually not appropriate</td>
<td></td>
<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
<td>2</td>
<td>n/a</td>
<td>1 2 3 4 5 6 7 8 9</td>
</tr>
<tr>
<td>MRI chest without and with IV contrast</td>
<td>usually not appropriate</td>
<td></td>
<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
<td>2</td>
<td>n/a</td>
<td>1 2 3 4 5 6 7 8 9</td>
</tr>
<tr>
<td>CT chest without and with IV contrast</td>
<td>usually not appropriate</td>
<td></td>
<td>☢☢☢ 1-10 mSv</td>
<td>☢☢☢☢ 3-10 mSv [ped]</td>
<td>1</td>
<td>n/a</td>
<td>1 2 3 4 5 6 7 8 9</td>
</tr>
</tbody>
</table>

Variant 3:  PPD not available. Placement in group home or skilled nursing facility. No clinical symptoms.
<table>
<thead>
<tr>
<th>Procedure</th>
<th>Radiation Dose</th>
<th>Dose [ped]</th>
<th>Iris Strength</th>
<th>Image Quality</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRI chest without and with IV contrast</td>
<td>0 mSv</td>
<td>0 mSv</td>
<td>1</td>
<td>n/a</td>
<td>0</td>
</tr>
<tr>
<td>CT chest without and with IV contrast</td>
<td>1-10 mSv</td>
<td>3-10 mSv</td>
<td>1</td>
<td>n/a</td>
<td>0</td>
</tr>
</tbody>
</table>
Please refer to the supporting documentation for a more complete discussion of the concepts and their definitions below.

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

**Disagree:** The variation of the individual ratings from the median rating indicates panel disagreement on the final recommendation.

**References:** Lists the references associated with the recommendation.

**SQ:** Study Quality (1, 2, 3, 4, Good M or Inadequate M) of the references listed.

**RRL:** Information on the Relative Radiation Level (RRL) designations can be found [here](#).