# American College of Radiology
## ACR Appropriateness Criteria®

### Acute Respiratory Illness in Immunocompromised Patients

**Variant 1:** Acute respiratory illness in immunocompromised patients. Cough, dyspnea, chest pain, or fever. Initial Imaging.

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### Variant 3:

Acute respiratory illness in immunocompromised patients. Abnormal chest radiograph, multiple, diffuse, or confluent opacities. Next imaging study.
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### Notes:
- **Strong**: Strong indications for MRI without IV contrast.
- **May be appropriate**: May be appropriate for MRI with IV contrast.
- **Usually not appropriate**: Usually not appropriate for FDG-PET/CT and CT chest.

### Radiation Dose:
- **0 mSv**: No significant radiation dose.
- **10-30 mSv**: Moderate radiation dose.
- **3-10 mSv**: High radiation dose.
- **1-10 mSv**: Very high radiation dose.
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</table>

<p>| FDG-PET/CT skull base to mid-thigh      | May be appropriate | Limited | ☢☢☢ 10-30 mSv | ☢☢☢☢ 10-30 mSv [ped] | 5 | 5 | 1 | 0 | 2 | 0 | 4 | 5 | 0 | 0 | 0 |
|-----------------------------------------|-------------------|--------|---------------|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| References                              | Study Quality     |
| 47 (20087557)                           | 3                 |
| 46 (21674240)                           | 4                 |
| 13 (28267531)                           | 2                 |</p>
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<th>Procedure</th>
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<th>Expert Consensus</th>
<th>Dose (mSv)</th>
<th>Study Quality</th>
<th>Our Opinion</th>
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<td>MRI chest without IV contrast</td>
<td>May be appropriate</td>
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<td>0 0 mSv [ped]</td>
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<tr>
<td>MRI chest without and with IV contrast</td>
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<td>Expert Consensus</td>
<td>0 0 mSv [ped]</td>
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<tr>
<td>CT chest without and with IV contrast</td>
<td>Usually not</td>
<td>Limited</td>
<td>1-10 mSv</td>
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<tr>
<td></td>
<td>appropriate</td>
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<td>3-10 mSv [ped]</td>
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References

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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).