**American College of Radiology**
**ACR Appropriateness Criteria®**

**Radiographically Detected Solitary Pulmonary Nodule**

**Variant 1:** Solid nodule $\geq 1$ cm, low clinical suspicion for cancer.

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Appropriateness Category</th>
<th>SOE</th>
<th>Adults RRL</th>
<th>Peds RRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT chest without IV contrast</td>
<td>Usually appropriate</td>
<td></td>
<td>☢☢☢ 1-10 mSv</td>
<td>☢☢☢ 3-10 mSv [ped]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8</td>
<td>n/a</td>
<td>0 0 0 0 0 0 0 0 0</td>
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<tr>
<td>FDG-PET/CT whole body</td>
<td>Usually appropriate</td>
<td></td>
<td>☢☢☢ 10-30 mSv</td>
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<td>Image-guided transthoracic needle biopsy</td>
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<td>Varies</td>
<td>Varies</td>
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### Variant 2: Solid nodule ≥ 1 cm, moderate to high clinical suspicion for cancer.

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<th>Peds RRL</th>
<th>Rating</th>
<th>Median</th>
<th>Final Tabulations</th>
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<td>Varies</td>
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**Variant 3:** Solid nodule <1 cm, low clinical suspicion for cancer.

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<th>Rating</th>
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### References

#### Study Quality

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<td>Usually not appropriate</td>
<td>SOE</td>
<td>10-30 mSv</td>
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<td>2</td>
<td>n/a</td>
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</table>

**Variant 4: Solid nodule <1 cm, moderate to high clinical suspicion for cancer.**

- **CT chest without IV contrast**: Usual not appropriate. SOE: 1-10 mSv. Peds RRL: 3-10 mSv [ped]. Rating: 1. Median: n/a. Final Tabulations: 1 2 3 4 5 6 7 8 9.
- **CT chest without and with IV contrast**: Usual not appropriate. SOE: 1-10 mSv. Peds RRL: 3-10 mSv [ped]. Rating: 2. Median: n/a. Final Tabulations: 1 2 3 4 5 6 7 8 9.
- **Watchful waiting with CT follow-up**: May be appropriate. SOE: Varies. Rating: 5. Median: n/a.
- **CT chest without and with IV contrast**: May be appropriate. SOE: 1-10 mSv. Peds RRL: 3-10 mSv [ped]. Rating: 5. Median: n/a.
- **CT chest with IV contrast**: May be appropriate. SOE: 1-10 mSv. Peds RRL: 3-10 mSv [ped]. Rating: 4. Median: n/a.
- **FDG-PET/CT whole body**: Usually not appropriate. SOE: 10-30 mSv. Rating: 2. Median: n/a.
| MRI chest without IV contrast | Usually not appropriate | O 0 mSv | O 0 mSv [ped] | 2 | n/a | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MRI chest without and with IV contrast | Usually not appropriate | O 0 mSv | O 0 mSv [ped] | 2 | n/a | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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.