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

**Plexopathy**

**Variant 1:** Brachial plexopathy, acute or chronic, nontraumatic. No known malignancy.

<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>MRI brachial plexus without and with IV contrast</td>
<td>Usually appropriate</td>
<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
<td>9</td>
<td>n/a</td>
<td>0 0 0 0 0 0 0 0 0 0</td>
<td></td>
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<tr>
<td>MRI brachial plexus without IV contrast</td>
<td>Usually appropriate</td>
<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
<td>7</td>
<td>n/a</td>
<td>0 0 0 0 0 0 0 0 0 0</td>
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<tr>
<td>CT neck with IV contrast</td>
<td>May be appropriate</td>
<td>☢☢☢ 1-10 mSv</td>
<td>☢☢☢ 0.3-3 mSv [ped]</td>
<td>6</td>
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<td>☢☢☢ 1-10 mSv</td>
<td>☢☢☢ 0.3-3 mSv [ped]</td>
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<td>O 0 mSv [ped]</td>
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**Variant 2:** Lumbosacral plexopathy, acute or chronic, nontraumatic. No known malignancy.
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<th>Adults RRL</th>
<th>Peds RRL</th>
<th>Rating</th>
<th>Median</th>
<th>Final Tabulations</th>
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<td>0 0 mSv</td>
<td>0 0 mSv</td>
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<td>☢☢☢☢ 3-10 mSv</td>
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<td>☢☢☢☢ 3-10 mSv</td>
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<td>☢☢☢☢ 3-10 mSv</td>
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<td>☢☢☢☢ 3-10 mSv</td>
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**Variant 3: Brachial plexopathy, traumatic (not perinatal).**

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<th>Peds RRL</th>
<th>Rating</th>
<th>Median</th>
<th>Final Tabulations</th>
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<tr>
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<td>✧✧✧✧ 1-10 mSv</td>
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<tr>
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**Variant 4: Lumbosacral plexopathy, traumatic.**
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<th>SOE</th>
<th>Adults RRL</th>
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<th>Rating</th>
<th>Median</th>
<th>Final Tabulations</th>
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<td>☢☢☢☢ 3-10 mSv [ped]</td>
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<td>CT pelvis without IV contrast</td>
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<td>☢☢☢ 1-10 mSv</td>
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<tr>
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<td>CT pelvis without and with IV contrast</td>
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<td>☢☢☢☢ 3-10 mSv [ped]</td>
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**Variant 5: Brachial plexopathy, known malignancy or post-treatment syndrome.**

<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>
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<tr>
<td>MRI brachial plexus without and with IV contrast</td>
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<td></td>
<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
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<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
<td>7</td>
<td>n/a</td>
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</tr>
<tr>
<td>FDG-PET/CT whole body</td>
<td>Usually appropriate</td>
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<td>☢☢☢☢ 10-30 mSv</td>
<td>7 n/a</td>
<td>7</td>
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<tr>
<td>CT neck with IV contrast</td>
<td>May be appropriate</td>
<td></td>
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<td>CT neck without IV contrast</td>
<td>May be appropriate</td>
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<td>☢☢☢ 0.3-3 mSv [ped]</td>
<td>4</td>
<td>n/a</td>
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</tbody>
</table>
CT neck without and with IV contrast | Usually not appropriate | ☢☢☢ 1-10 mSv | ☢☢☢ 3-10 mSv [ped] | 2 | n/a | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0

Variant 6: Lumbosacral plexopathy, known malignancy or post-treatment syndrome.

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Appropriateness Category</th>
<th>SOE</th>
<th>Adults RRL</th>
<th>Peds RRL</th>
<th>Rating</th>
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<td>SOE</td>
<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
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<td>SOE</td>
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<td>O 0 mSv [ped]</td>
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<td>MRI lumbosacral plexus without IV contrast</td>
<td>Usually appropriate</td>
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<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
<td>7</td>
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<tr>
<td>FDG-PET/CT whole body</td>
<td>Usually appropriate</td>
<td>SOE</td>
<td>☢☢☢ 10-30 mSv</td>
<td>☢☢☢ 10-30 mSv [ped]</td>
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<td>May be appropriate</td>
<td>SOE</td>
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<td>O 0 mSv [ped]</td>
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<tr>
<td>CT pelvis with IV contrast</td>
<td>May be appropriate</td>
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<td>0</td>
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<td>☢☢☢ 3-10 mSv [ped]</td>
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</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.