Palpable Breast Masses

Variant 1:  Palpable breast mass. Woman 40 years of age or older, initial evaluation. (See Appendices 1A-1B for additional steps in the workup of these patients.)

<table>
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<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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<tbody>
<tr>
<td>Mammography diagnostic</td>
<td>Usually appropriate</td>
<td>☢☢ 0.1-1mSv</td>
<td>9</td>
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</tr>
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<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
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<tr>
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<td>Varies</td>
<td>Varies</td>
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<tr>
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<td>O 0 mSv [ped]</td>
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<td>☢☢ 1-10 mSv</td>
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Variant 2: Palpable breast mass. Woman 40 years of age or older, mammography findings suspicious for malignancy. Next examination to perform. (See Appendix 1A for additional steps in the workup of these patients.)

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<th>Adults RRL</th>
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<td>O 0 mSv</td>
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Variant 3: Palpable breast mass. Woman 40 years of age or older, mammography findings probably benign. Next examination to perform. (See Appendix 1A for additional steps in the workup of these patients.)
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<th>Rating</th>
<th>Median</th>
<th>Final Tabulations</th>
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<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
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<td>O 0 mSv [ped]</td>
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<td>Varies</td>
<td>Varies</td>
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</table>

**Variant 4:** Palpable breast mass. Woman 40 years of age or older, mammography findings benign (like lipoma) at site of palpable mass. Next examination to perform.

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<th>Final Tabulations</th>
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<td>Varies</td>
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<td>SOE</td>
<td>Adults RRL</td>
<td>Peds RRL</td>
<td>Rating</td>
<td>Median</td>
<td>Final Tabulations</td>
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<td>FDG-PEM</td>
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<td>Varies</td>
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<tr>
<td>MRI breast without and with IV contrast</td>
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<td>O 0 mSv [ped]</td>
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<tr>
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<td>Usually not appropriate</td>
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<td>O 0 mSv [ped]</td>
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**Variant 5:** Palpable breast mass. Woman 40 years of age or older, mammography findings negative. Next examination to perform. (See Appendix 1B for additional steps in the workup of these patients.)
### Variant 6: Palpable breast mass. Woman younger than 30 years of age, initial evaluation. (See Appendices 2A-2B for additional steps in the workup of these patients.)

<table>
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<th>Procedure</th>
<th>Appropriateness Category</th>
<th>SOE</th>
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<th>Peds RRL</th>
<th>Rating</th>
<th>Median</th>
<th>Final Tabulations</th>
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<td></td>
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<td>Varies</td>
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<td>Procedure</td>
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<td>Adults RRL</td>
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<td>Image-guided core biopsy breast</td>
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<td>Varies</td>
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<td>Image-guided fine needle aspiration breast</td>
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<td>Varies</td>
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**Variant 7:** Palpable breast mass. Woman younger than 30 years of age, US findings suspicious for malignancy. Next examination to perform. (See Appendix 2A for additional steps in the workup of these patients.)
Variant 8:  Palpable breast mass. Woman younger than 30 years of age, US findings probably benign. Next examination to perform. (See Appendix 2B for additional steps in the workup of these patients.)

<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>
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Variant 9:  Palpable breast mass. Woman younger than 30 years of age, US findings benign (like simple cyst). Next examination to perform.
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<td>Varies</td>
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<tr>
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<tr>
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<td>Varies</td>
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<tr>
<td>Tc-99m sestamibi MBI</td>
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**Variant 10:** Palpable breast mass. Woman younger than 30 years of age, US findings negative. Next examination to perform.
<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>
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<td>O 0 mSv</td>
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<tr>
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<td>Varies</td>
<td>Varies</td>
<td>Varies</td>
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<tr>
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<td>☢☢ 1-10 mSv</td>
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</table>

**Variant 11: Palpable breast mass. Women 30 to 39 years of age, initial evaluation. (See Appendix 3 for additional steps in the workup of these patients.)**
<table>
<thead>
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<th>Test</th>
<th>Appropriateness</th>
<th>Radiation Dose</th>
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<th>Specificity 3</th>
<th>Specificity 4</th>
<th>Specificity 5</th>
<th>Specificity 6</th>
<th>Specificity 7</th>
<th>Specificity 8</th>
<th>Specificity 9</th>
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<td>1-10 mSv</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](http://www.acr.org/ac).