American College of Radiology  
ACR Appropriateness Criteria®  

Acute Pancreatitis

Variant 1: Suspected acute pancreatitis. First time presentation. Epigastric pain and increased amylase and lipase. Less than 48 to 72 hours after symptom onset. Initial imaging.

<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>US abdomen</td>
<td>Usually appropriate</td>
<td>Limited</td>
<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
<td>8</td>
<td>8</td>
<td>0 0 0 1 4 1 1 8 2</td>
</tr>
<tr>
<td>References</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15 (24512896)</td>
<td></td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 (24679420)</td>
<td></td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14 (26209440)</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CT abdomen and pelvis with IV contrast</td>
<td>May be appropriate</td>
<td>Limited</td>
<td>⭐⭐⭐ 1-10 mSv</td>
<td>⭐⭐⭐⭐ 3-10 mSv [ped]</td>
<td>5</td>
<td>5</td>
<td>0 0 2 6 8 1 0 0 0</td>
</tr>
<tr>
<td>References</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 (25078061)</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 (22186977)</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 (27426674)</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 (25239388)</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 (12034923)</td>
<td></td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 (28840381)</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MRI abdomen without IV contrast with MRCP</td>
<td>May be appropriate</td>
<td>Limited</td>
<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
<td>5</td>
<td>5</td>
<td>0 0 2 6 9 0 0 0 0</td>
</tr>
<tr>
<td>References</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11 (25200693)</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Procedure</td>
<td>May be appropriate</td>
<td>Limited</td>
<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
<td>5</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>--------------------</td>
<td>---------</td>
<td>---------</td>
<td>---------------</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>MRI abdomen without and with IV contrast with MRCP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>US duplex Doppler abdomen</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>CT abdomen and pelvis without IV contrast</td>
<td>Usually not</td>
<td>Limited</td>
<td>1-10 mSv</td>
<td>3-10 mSv [ped]</td>
<td>3</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>CT abdomen and pelvis without and with IV contrast</td>
<td>Usually not</td>
<td>Limited</td>
<td>10-30 mSv</td>
<td>10-30 mSv [ped]</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>
### References

**Study Quality**

<table>
<thead>
<tr>
<th>References</th>
<th>Study Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 (24512896)</td>
<td>4</td>
</tr>
</tbody>
</table>

**Variant 2:** Suspected acute pancreatitis. Initial presentation with atypical signs and symptoms; including equivocal amylase and lipase values (possibly confounded by acute kidney injury or chronic kidney disease) and when diagnoses other than pancreatitis may be possible (bowel perforation, bowel ischemia, etc.). Initial imaging.

<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>CT abdomen and pelvis with IV contrast</td>
<td>Usually appropriate</td>
<td>Limited</td>
<td>☢☢☢ 1-10 mSv</td>
<td>☢☢☢☢ 3-10 mSv [ped]</td>
<td>8</td>
<td>8</td>
<td>1 0 0 0 0 0 2 0 8 7</td>
</tr>
<tr>
<td>MRI abdomen without and with IV contrast with MRCP</td>
<td>Usually appropriate</td>
<td>Limited</td>
<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
<td>7</td>
<td>7</td>
<td>0 0 1 0 2 5 4 5 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>References</th>
<th>Study Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 (19896558)</td>
<td>4</td>
</tr>
<tr>
<td>3 (23100216)</td>
<td>4</td>
</tr>
<tr>
<td>14 (26209440)</td>
<td>3</td>
</tr>
<tr>
<td>20 (25457519)</td>
<td>2</td>
</tr>
<tr>
<td>19 (25585483)</td>
<td>4</td>
</tr>
<tr>
<td>18 (26102416)</td>
<td>4</td>
</tr>
<tr>
<td>17 (25356038)</td>
<td>4</td>
</tr>
<tr>
<td>8 (25078061)</td>
<td>3</td>
</tr>
<tr>
<td>Procedure</td>
<td>Appropriateness</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>CT abdomen and pelvis without IV contrast</td>
<td>Limited</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>References</td>
</tr>
<tr>
<td>16 (19896558)</td>
<td></td>
</tr>
<tr>
<td>14 (26209440)</td>
<td></td>
</tr>
<tr>
<td>3 (23100216)</td>
<td></td>
</tr>
<tr>
<td>MRI abdomen without IV contrast with MRCP</td>
<td>May be appropriate</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>References</td>
</tr>
<tr>
<td>20 (25457519)</td>
<td></td>
</tr>
<tr>
<td>19 (25585483)</td>
<td></td>
</tr>
<tr>
<td>18 (26102416)</td>
<td></td>
</tr>
<tr>
<td>17 (25356038)</td>
<td></td>
</tr>
<tr>
<td>8 (25078061)</td>
<td></td>
</tr>
<tr>
<td>6 (27426674)</td>
<td></td>
</tr>
<tr>
<td>US abdomen</td>
<td>May be appropriate</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>References</td>
</tr>
<tr>
<td>15 (24512896)</td>
<td></td>
</tr>
<tr>
<td>US duplex Doppler abdomen</td>
<td>May be appropriate</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>References</td>
</tr>
<tr>
<td>24 (22613509)</td>
<td></td>
</tr>
<tr>
<td>CT abdomen and pelvis without and with IV contrast</td>
<td>Usually not appropriate</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>References</td>
</tr>
<tr>
<td>16 (19896558)</td>
<td></td>
</tr>
<tr>
<td>14 (26209440)</td>
<td></td>
</tr>
</tbody>
</table>
### CT abdomen and pelvis with IV contrast

<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>CT abdomen and pelvis with IV contrast</td>
<td>Usually appropriate</td>
<td>Limited</td>
<td>☢☢☢ 1-10 mSv</td>
<td>☢☢☢☢ 3-10 mSv</td>
<td>9</td>
<td>9</td>
<td>0 0 0 0 0 0 3 6 9</td>
</tr>
</tbody>
</table>

#### References

- 3 (23100216)
- 4

#### Study Quality

- 15 (24512896) 4


### MRI abdomen without and with IV contrast with MRCP

<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 abdomen without and with IV contrast with MRCP</td>
<td>Usually appropriate</td>
<td>Strong</td>
<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
<td>7</td>
<td>7</td>
<td>0 0 1 0 1 3 7 4 2</td>
</tr>
</tbody>
</table>

#### References

- 24 (22613509) 2
- 23 (22366559) 2
- 22 (24015276) 2
- 11 (25200693) 3

#### Study Quality

- 23 (22366559) 2
- 22 (24015276) 2
- 11 (25200693) 3

### MRI abdomen without IV contrast with MRCP

<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 abdomen without IV contrast with MRCP</td>
<td>May be appropriate</td>
<td>Strong</td>
<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
<td>6</td>
<td>6</td>
<td>0 0 0 1 8 3 5 1 0</td>
</tr>
</tbody>
</table>

#### References

- 23 (22366559) 2
- 22 (24015276) 2
- 11 (25200693) 3

#### Study Quality

- 23 (22366559) 2
- 22 (24015276) 2
- 11 (25200693) 3
<table>
<thead>
<tr>
<th>Procedure</th>
<th>Radiation Exposure</th>
<th>References</th>
<th>Study Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT abdomen and pelvis without IV contrast</td>
<td>Limited</td>
<td>24 (22613509)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>☢☢☢☢ 1-10 mSv</td>
<td>23 (22366559)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>☢☢☢☢☢ 3-10 mSv</td>
<td>22 (24015276)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>[ped]</td>
<td>11 (25200693)</td>
<td>3</td>
</tr>
<tr>
<td>US duplex Doppler abdomen</td>
<td>May be appropriate</td>
<td>References</td>
<td>Study Quality</td>
</tr>
<tr>
<td></td>
<td>Expert Consensus</td>
<td>18 (26102416)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8 (25078061)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6 (27426674)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 (23100216)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 (25208277)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>21 (22584543)</td>
<td>4</td>
</tr>
<tr>
<td>CT abdomen and pelvis without and with IV contrast</td>
<td>Usually not appropriate</td>
<td>References</td>
<td>Study Quality</td>
</tr>
<tr>
<td></td>
<td>Limited</td>
<td>18 (26102416)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>☢☢☢☢ 1-10 mSv</td>
<td>8 (25078061)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>☢☢☢☢☢ 3-10 mSv</td>
<td>6 (27426674)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>[ped]</td>
<td>3 (23100216)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 (25208277)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>21 (22584543)</td>
<td>4</td>
</tr>
<tr>
<td>US abdomen</td>
<td>Usually not appropriate</td>
<td>References</td>
<td>Study Quality</td>
</tr>
<tr>
<td></td>
<td>Expert Consensus</td>
<td>18 (26102416)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8 (25078061)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6 (27426674)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 (23100216)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 (25208277)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>21 (22584543)</td>
<td>4</td>
</tr>
<tr>
<td>US abdomen with IV contrast</td>
<td>Usually not appropriate</td>
<td>References</td>
<td>Study Quality</td>
</tr>
<tr>
<td></td>
<td>Limited</td>
<td>18 (26102416)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8 (25078061)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6 (27426674)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 (23100216)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 (25208277)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>21 (22584543)</td>
<td>4</td>
</tr>
</tbody>
</table>
Variant 4: Acute pancreatitis. Continued SIRS, severe clinical scores, leukocytosis, and fever. Greater than 7 to 21 days after onset of 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>CT abdomen and pelvis with IV contrast</td>
<td>Usually appropriate</td>
<td>Strong</td>
<td>1-10 mSv</td>
<td>3-10 mSv [ped]</td>
<td>9</td>
<td>9</td>
<td>0 0 0 0 0 0 0 0 5 13</td>
</tr>
<tr>
<td>References</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27 (27592205)</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26 (25425489)</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21 (22584543)</td>
<td></td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 (23100216)</td>
<td></td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MRI abdomen without and with IV contrast with MRCP</td>
<td>Usually appropriate</td>
<td>Strong</td>
<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
<td>8</td>
<td>8</td>
<td>0 0 0 0 0 1 6 9 2</td>
</tr>
<tr>
<td>References</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22 (24015276)</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26 (25425489)</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21 (22584543)</td>
<td></td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MRI abdomen without IV contrast with MRCP</td>
<td>May be appropriate</td>
<td>Strong</td>
<td>O 0 mSv</td>
<td>O 0 mSv [ped]</td>
<td>6</td>
<td>6</td>
<td>0 0 0 0 7 6 3 1 1</td>
</tr>
<tr>
<td>References</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22 (24015276)</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26 (25425489)</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21 (22584543)</td>
<td></td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CT abdomen and pelvis without IV contrast</td>
<td>May be appropriate</td>
<td>Strong</td>
<td>1-10 mSv</td>
<td>3-10 mSv [ped]</td>
<td>5</td>
<td>5</td>
<td>1 0 0 3 11 2 0 0 0</td>
</tr>
</tbody>
</table>
### Variant 5: Known necrotizing pancreatitis. Significant deterioration in clinical status, including abrupt decrease in hemoglobin or hematocrit, hypotension, tachycardia, tachypnea, abrupt change in fever curve, or increase in white blood cells.

<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>CT abdomen and pelvis with IV contrast</td>
<td>Usually appropriate</td>
<td>Limited</td>
<td>1-10 mSv</td>
<td>3-10 mSv [ped]</td>
<td>9</td>
<td>9</td>
<td>0 0 0 0 0 0 0 0 4 14</td>
</tr>
</tbody>
</table>

References | Study Quality

<table>
<thead>
<tr>
<th>Reference</th>
<th>Study Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>28 (24574783)</td>
<td>3</td>
</tr>
<tr>
<td>15 (24512896)</td>
<td>4</td>
</tr>
</tbody>
</table>

<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>US abdomen</td>
<td>May be appropriate</td>
<td>Limited</td>
<td>0 mSv</td>
<td>0 mSv [ped]</td>
<td>5</td>
<td>5</td>
<td>0 1 5 3 4 4 1 0 0</td>
</tr>
<tr>
<td>US duplex Doppler abdomen</td>
<td>May be appropriate</td>
<td>Expert Consensus</td>
<td>0 mSv</td>
<td>0 mSv [ped]</td>
<td>4</td>
<td>4</td>
<td>0 2 3 7 2 3 0 1 0</td>
</tr>
<tr>
<td>CT abdomen and pelvis without and with IV contrast</td>
<td>Usually not appropriate</td>
<td>Strong</td>
<td>10-30 mSv</td>
<td>10-30 mSv [ped]</td>
<td>3</td>
<td>3</td>
<td>3 2 4 0 8 0 0 0 0 0</td>
</tr>
<tr>
<td>US abdomen with IV contrast</td>
<td>Usually not appropriate</td>
<td>Limited</td>
<td>0 mSv</td>
<td>0 mSv [ped]</td>
<td>3</td>
<td>3</td>
<td>1 3 6 6 1 0 1 0 0</td>
</tr>
<tr>
<td>Procedure</td>
<td>Appropriateness</td>
<td>Study Quality</td>
<td>Radiation Dose</td>
<td>References</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>-----------------------</td>
<td>---------------</td>
<td>----------------</td>
<td>------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MRI abdomen without and with IV contrast with MRCP</strong></td>
<td>May be appropriate</td>
<td>Limited</td>
<td>O 0 mSv</td>
<td>29 (24441591)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CT abdomen and pelvis without IV contrast</strong></td>
<td>May be appropriate</td>
<td>Limited</td>
<td>1-10 mSv</td>
<td>29 (24441591)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CT abdomen and pelvis without and with IV contrast</strong></td>
<td>May be appropriate</td>
<td>Limited</td>
<td>10-30 mSv</td>
<td>29 (24441591)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MRI abdomen without IV contrast with MRCP</strong></td>
<td>May be appropriate</td>
<td>Limited</td>
<td>O 0 mSv</td>
<td>29 (24441591)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>US abdomen</strong></td>
<td>May be appropriate</td>
<td>Expert Consensus</td>
<td>O 0 mSv</td>
<td>29 (24441591)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>US duplex Doppler abdomen</strong></td>
<td>May be appropriate</td>
<td>Expert Consensus</td>
<td>O 0 mSv</td>
<td>29 (24441591)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>US abdomen with IV contrast</strong></td>
<td>Usually not appropriate</td>
<td>Limited</td>
<td>O 0 mSv</td>
<td>28 (24574783)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Variant 6:** Acute pancreatitis. Known pancreatic or peripancreatic fluid collections with continued abdominal pain, early satiety, nausea, vomiting, or signs of infection. Greater than 4 weeks after symptom onset.
<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>CT abdomen and pelvis with IV contrast</td>
<td>Usually appropriate</td>
<td>Limited</td>
<td>1-10 mSv</td>
<td>3-10 mSv [ped]</td>
<td>9</td>
<td>9</td>
<td>0 0 0 0 1 2 5 10</td>
</tr>
<tr>
<td>References</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Study Quality</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26 (25425489)</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MRI abdomen without and with IV contrast with MRCP</td>
<td>Usually appropriate</td>
<td>Strong</td>
<td>0 mSv</td>
<td>0 mSv [ped]</td>
<td>8</td>
<td>8</td>
<td>0 0 0 0 1 3 10 4</td>
</tr>
<tr>
<td>References</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Study Quality</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31 (26730150)</td>
<td></td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26 (25425489)</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22 (24015276)</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MRI abdomen without IV contrast with MRCP</td>
<td>May be appropriate</td>
<td>Strong</td>
<td>0 mSv</td>
<td>0 mSv [ped]</td>
<td>6</td>
<td>6</td>
<td>0 0 0 1 5 4 5 3 0</td>
</tr>
<tr>
<td>References</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Study Quality</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31 (26730150)</td>
<td></td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26 (25425489)</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22 (24015276)</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CT abdomen and pelvis without IV contrast</td>
<td>May be appropriate</td>
<td>Limited</td>
<td>1-10 mSv</td>
<td>3-10 mSv [ped]</td>
<td>5</td>
<td>5</td>
<td>0 0 0 4 10 3 0 0 0</td>
</tr>
<tr>
<td>References</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Study Quality</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26 (25425489)</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>US abdomen</td>
<td>May be appropriate</td>
<td>Limited</td>
<td>0 mSv</td>
<td>0 mSv [ped]</td>
<td>5</td>
<td>5</td>
<td>0 0 2 6 6 3 0 0 0</td>
</tr>
<tr>
<td>References</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Study Quality</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21 (22584543)</td>
<td></td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>US duplex Doppler abdomen</td>
<td>May be appropriate</td>
<td>Expert Consensus</td>
<td>0 mSv</td>
<td>0 mSv [ped]</td>
<td>4</td>
<td>4</td>
<td>0 2 5 6 2 1 1 0 0</td>
</tr>
<tr>
<td>References</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Study Quality</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21 (22584543)</td>
<td></td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Procedure</td>
<td>Appropriateness</td>
<td>Radiation Dose</td>
<td>Study Quality</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>-----------------</td>
<td>----------------</td>
<td>---------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CT abdomen and pelvis without and with IV contrast</td>
<td>Usually not appropriate</td>
<td>Limited 10-30 mSv</td>
<td>3 3 2 4 5 0 4 2 0 0 0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>US abdomen with IV contrast</td>
<td>Usually not appropriate</td>
<td>Expert Consensus O 0 mSv</td>
<td>3 3 1 4 7 4 1 0 0 0 0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

References 26 (25425489) 2
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).