American College of Radiology ACR Appropriateness Criteria®

Abdominal Pain-Child

Variant 1: Child. Acute abdominal pain. Suspected constipation. Initial imaging.

| | Appropriate | ness | | | | | | | F | inal | Tabu | latio | ns | | |
|--------------------------------|-----------------------|---------------|-----------------|----------------------------|---------|--------|---|---|---|------|------|-------|----|---|---|
| Procedure | Category | SOE SOE | Adults RRL | Peds RRL | Rating | Median | 1 | 2 | 3 | 4 | 5 | | | 8 | 9 |
| Radiography abdomen and pelvis | May be appropriat | Strong | ��� 1-10 mSv | ��� 0.3- 3 mSv [ped] | 5 | 5 | 0 | 0 | 2 | 5 | 5 | 2 | 0 | 0 | 0 |
| | | References | | Study | Quality | | | | | | | | | | |
| | | 21 (37079657) | | | 4 | | | | | | | | | | |
| | | 20 (32300503) | | | 3 | | | | | | | | | | |
| | | 16 (22341242) | | Inac | lequate | | | | | | | | | | |
| | | 17 (12230285) | | | 3 | | | | | | | | | | |
| | | 18 (16283286) | | | 2 | | | | | | | | | | |
| | | 19 (10199902) | | | 1 | | | | | | | | | | |
| | | 10 (30045349) | | | 4 | | | | | | | | | | |
| | | 12 (28632576) | | | 3 | | | | | | | | | | |
| | | 9 (27299294) | | | 3 | | | | | | | | | | |
| | | 11 (15997002) | | | 4 | | | | | | | | | | |
| | | 13 (498690) | | | 4 | | | | | | | | | | |
| | | 14 (11315444) | | | 3 | | | | | | | | | | |
| | | 15 (7607277) | | | 4 | | | | | | | | | | |
| US abdomen | Usually no appropriat | Limited | O 0 mSv | O 0 mSv [ped] | 3 | 3 | 4 | 2 | 5 | 3 | 1 | 0 | 0 | 0 | 0 |
| | | References | | Study | Quality | | • | | | | | | | | |
| | | 9 (27299294) | | | 3 | | | | | | | | | | |

| CT abdomen and pelvis with IV contrast | Usually not appropriate | Expert Consensus | && 1-10 mSv | 9999 3- 10 mSv [ped] | 1 | 1 | 12 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 |
|---|-------------------------|---------------------|------------------------|---------------------------------------|---|---|----|---|---|---|---|---|---|---|---|
| CT abdomen and pelvis without IV contrast | Usually not appropriate | Expert Consensus | ��� 1-10 mSv | ���� 3- 10 mSv [ped] | 1 | 1 | 13 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| CT abdomen and pelvis without and with IV contrast | Usually not appropriate | Expert Consensus | ❤❤❤ 10-30 mSv | ≎≎≎≎≎ 10-30 mSv [ped] | 1 | 1 | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fluoroscopy contrast enema | Usually not appropriate | Expert Consensus | ≎≎≎ 1-10 mSv | ���� 3- 10 mSv [ped] | 1 | 1 | 11 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 0 |
| Fluoroscopy barium enema single- contrast | Usually not appropriate | Expert Consensus | ≎≎≎ 1-10 mSv | ���� 3- 10 mSv [ped] | 1 | 1 | 12 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 |
| MRI abdomen and pelvis without IV contrast | Usually not appropriate | Expert Consensus | O 0 mSv | O 0 mSv [ped] | 1 | 1 | 12 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| MRI abdomen and pelvis without and with IV contrast | Usually not appropriate | Expert Consensus | O 0 mSv | O 0 mSv [ped] | 1 | 1 | 13 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Radiography pelvis | Usually not appropriate | Expert Consensus | �� 0.1-1mSv | �� 0.03- 0.3 mSv [ped] | 1 | 1 | 9 | 1 | 3 | 1 | 0 | 0 | 1 | 0 | 0 |
| US duplex Doppler abdomen | Usually not appropriate | Expert Consensus | O 0 mSv | O 0 mSv [ped] | 1 | 1 | 12 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| MRI abdomen and pelvis with IV contrast | Usually not appropriate | Expert Consensus | O 0 mSv | O 0 mSv [ped] | 1 | 1 | 13 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |

Variant 2: Child. Acute abdominal pain. Suspected intussusception. Initial imaging.

| D 1 | Appropriateness | COF | A L L DDI | D I DDI | D. | 24.11 | | | F | inal ' | Tabu | latio | ns | | |
|------------|---------------------|--------|------------|------------------|--------|--------|---|---|---|--------|------|-------|----|---|----|
| Procedure | Category | SOE | Adults RRL | Peds RRL | Rating | Median | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| US abdomen | Usually appropriate | Strong | O 0 mSv | O 0 mSv [ped] | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 13 |

| | | References | | | | Quality | | | | | | | | | | |
|--|-----------|---------------------|------------------------|----|--------------------------------|---------|---|----|---|---|---|---|---|---|---|---|
| | | 41 (36919137) | | | (| Good | | | | | | | | | | |
| | | 40 (32936473) | | | Inac | lequate | | | | | | | | | | |
| | | 39 (31182360) | | | (| Good | | | | | | | | | | |
| Radiography abdomen and pelvis | May be | Limited | ଫଫଫ 1-10 mSv | 0 | ��� 0.3- 3 mSv [ped] | 5 | 5 | 0 | 0 | 1 | 5 | 5 | 1 | 1 | 2 | 0 |
| | | References | | | Study | Quality | | | | | | | | | | |
| | | 38 (35049201) | | | | 3 | | | | | | | | | | |
| | | 37 (26546340) | | | | 4 | | | | | | | | | | |
| | | 33 (23364378) | | | | 3 | | | | | | | | | | |
| | | 34 (31857641) | | | | 3 | | | | | | | | | | |
| | | 36 (32519054) | | | | 3 | | | | | | | | | | |
| | | 35 (33067505) | | | | 3 | | | | | | | | | | |
| CT abdomen and pelvis with IV contrast | Usually i | Limited | ⊕⊕⊕ 1-10 mSv | 0 | ���� 3- 10 mSv [ped] | 3 | 3 | 5 | 0 | 6 | 3 | 1 | 0 | 0 | 0 | 0 |
| | | References | | | Study | Quality | | | | | | | | | | |
| | | 31 (12695864) | | | _ | 4 | | | | | | | | | | |
| Fluoroscopy contrast enema | Usually i | Limited | ��� 1-10 mSv | 0 | ���� 3- 10 mSv [ped] | 2 | 2 | 4 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | References | | | Study | Quality | | | | | | | | | | |
| | | 32 (24759487) | | | | 3 | | | | | | | | | | |
| CT abdomen and pelvis without IV contrast | Usually i | Expert Consensus | ��� 1-10 mSv | 0 | ���� 3- 10 mSv [ped] | 1 | 1 | 11 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| CT abdomen and pelvis without and with IV contrast | Usually i | Expert Consensus | ���� 10- mSv | 30 | ����� 10-30 mSv [ped] | 1 | 1 | 11 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fluoroscopy barium enema single- contrast | Usually i | Expert Consensus | ��� 1-10 mSv | 0 | ���� 3- 10 mSv [ped] | 1 | 1 | 10 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 |

| MRI abdomen and pelvis without IV contrast | Usually not appropriate | Expert Consensus | O 0 mSv | O 0 mSv [ped] | 1 | 1 | 11 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
|---|-------------------------|---------------------|---------|------------------|---|---|----|---|---|---|---|---|---|---|---|
| MRI abdomen and pelvis without and with IV contrast | Usually not appropriate | Expert Consensus | O 0 mSv | O 0 mSv [ped] | 1 | 1 | 11 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| US duplex Doppler abdomen | Usually not appropriate | Expert Consensus | O 0 mSv | O 0 mSv [ped] | 1 | 1 | 9 | 2 | 3 | 0 | 0 | 0 | 1 | 0 | 0 |
| MRI abdomen and pelvis with IV contrast | Usually not appropriate | Expert Consensus | O 0 mSv | O 0 mSv [ped] | 1 | 1 | 11 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |

Variant 3: Child. Acute abdominal pain. Suspected bowel obstruction. No prior abdominal surgery. Initial Imaging.

| n 1 | Appropri | ateness | COF | 4.1.4. DD: | , D 1 DD1 | D. (| 3.7.11 | | | F | inal ' | Tabu | latio | ns | | |
|--|----------------|--------------|---------------------|------------------------|------------------|------------|--------|---|---|---|--------|------|-------|----|---|---|
| Procedure | Categ | | SOE | Adults RR | L Peds RRI | Rating | Median | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Radiography abdomen and pelvis | Usua approp | | Limited | ≎≎≎ 1-10 mSv | 9 | 7 | 7 | 0 | 0 | 0 | 1 | 2 | 3 | 3 | 2 | 4 |
| | | | References | | Stu | dy Quality | | | | | | | | | | |
| | | | 21 (37079657) | | | 4 | | | | | | | | | | |
| | | | 49 (12355000) | | | 3 | | | | | | | | | | |
| | | | 50 (17636770) | | | 4 | | _ | | | | _ | | | | |
| CT abdomen and pelvis with IV contrast | May approp | be oriate | Limited | ��� 1-10 mSv | 0 | 5 | 5 | 0 | 0 | 2 | 2 | 4 | 5 | 1 | 0 | 0 |
| | | | References | | Stu | dy Quality | | | | | | | | | | |
| | | | 45 (28318600) | | | 4 | | | | | | | | | | |
| | | | 46 (29885174) | | | 3 | | | | | | | | | | |
| US abdomen | May approp | | Expert Consensus | O 0 mSv | O 0 mSv [ped] | 5 | 5 | 0 | 1 | 0 | 2 | 9 | 2 | 0 | 0 | 0 |
| US duplex Doppler abdomen | May approp | | Limited | O 0 mSv | O 0 mSv [ped] | 4 | 4 | 2 | 2 | 2 | 5 | 2 | 1 | 1 | 0 | 0 |
| | | | References | | Stu | dy Quality | | | | | | | | | | |

| | | 1 (33153561) | | | | 4 | | | | | | | | | | |
|---|--------------------|---------------------|------------------------|-----|---------------------------------------|---------|---|----|---|---|---|---|---|---|---|---|
| | | 52 (33879472) | | | C | Good | | | | | | | | | | |
| | | 51 (25023580) | | | | 4 | | | | | | | | | | |
| Fluoroscopy contrast enema | Usually appropr | Limited | ��� 1-1 mSv | 0 | ���� 3- 10 mSv [ped] | 3 | 3 | 4 | 2 | 2 | 5 | 2 | 0 | 0 | 0 | 0 |
| | | References | | | Study | Quality | | | | | | | | | | |
| | | 48 (32572600) | | | | 2 | | | | | | | | | | |
| CT abdomen with IV contrast | Usually appropr | Expert Consensus | ��� 1-1 mSv | 0 | ≎≎≎≎ 3- 10 mSv [ped] | 1 | 1 | 13 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| CT abdomen without IV contrast | Usually appropr | Expert Consensus | ��� 1-1 mSv | 0 | ���� 3- 10 mSv [ped] | 1 | 1 | 11 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| CT abdomen without and with IV contrast | Usually appropr | Expert Consensus | ���� 10- mSv | -30 | ����� 10-30 mSv [ped] | 1 | 1 | 11 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 |
| CT abdomen and pelvis without IV contrast | Usually appropr | Expert Consensus | ��� 1-1 mSv | 0 | ���� 3- 10 mSv [ped] | 1 | 1 | 10 | 2 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| CT abdomen and pelvis without and with IV contrast | Usually appropr | Limited | ���� 10- mSv | -30 | ≎≎≎≎≎ 10-30 mSv [ped] | 1 | 1 | 9 | 2 | 1 | 0 | 1 | 2 | 0 | 0 | 0 |
| | | References | | | Study | Quality | | | | | | | | | | |
| | | 47 (26866378) | | | | 2 | | | | | | | | | | |
| Fluoroscopy small bowel follow-through | Usually appropr | Expert Consensus | ≎⊕ ⊕ 1-1 mSv | 0 | ���� 3- 10 mSv [ped] | 1 | 1 | 9 | 0 | 4 | 0 | 1 | 1 | 0 | 0 | 0 |
| Fluoroscopy upper GI series | Usually appropr | Expert Consensus | ��� 1-1 mSv | 0 | ��� 0.3- 3 mSv [ped] | 1 | 1 | 8 | 2 | 2 | 3 | 0 | 0 | 0 | 0 | 0 |
| Fluoroscopy upper GI series with small bowel follow-through | Usually appropr | Expert Consensus | ��� 1-1 mSv | 0 | ���� 3- 10 mSv [ped] | 1 | 1 | 9 | 1 | 2 | 2 | 0 | 1 | 0 | 0 | 0 |

| MRI abdomen and pelvis without IV contrast | Usually not appropriate | Expert Consensus | O 0 mSv | O 0 mSv [ped] | 1 | 1 | 12 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
|---|-------------------------|---------------------|---------|------------------|---|---|----|---|---|---|---|---|---|---|---|
| MRI abdomen and pelvis without and with IV contrast | Usually not appropriate | Expert Consensus | O 0 mSv | O 0 mSv [ped] | 1 | 1 | 12 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 |
| MRI abdomen and pelvis with IV contrast | Usually not appropriate | Expert Consensus | O 0 mSv | O 0 mSv [ped] | 1 | 1 | 11 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |

Variant 4: Child. Acute abdominal pain. Suspected surgical complication. Initial imaging.

| Day of James | Appropri | iateness | SOF | A J14., DDI | D. J. DDI | D - 45 | M. 1! | | | F | inal ' | Tabu | latio | ıs | | |
|--|----------------|---------------|---------------|---------------------|----------------------------|---------|--------|---|---|---|--------|------|-------|----|---|---|
| Procedure | Categ | gory | SOE | Adults RRL | Peds RRL | Rating | Median | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| CT abdomen and pelvis with IV contrast | Usua approp | | Limited | ≎≎≎ 1-10 mSv | ���� 3- 10 mSv [ped] | 8 | 8 | 0 | 0 | 0 | 1 | 0 | 1 | 3 | 6 | 4 |
| | | | References | | Study | Quality | | | | | | | | | | |
| | | | 45 (28318600) | | | 4 | | | | | | | | | | |
| | | | 54 (25459440) | | | 4 | | | | | | | | | | |
| | | | 53 (24101451) | | | 4 | | | | , | | | 1 | | | |
| Radiography abdomen and pelvis | Usua approp | | Limited | ��� 1-10 mSv | ��� 0.3- 3 mSv [ped] | 7 | 7 | 1 | 0 | 0 | 1 | 3 | 2 | 2 | 2 | 4 |
| | | | References | | Study | Quality | | | | | | | | | | |
| | | | 21 (37079657) | | | 4 | | | | | | | | | | |
| | | | 45 (28318600) | | | 4 | | | | | | | | | | |
| | | | 57 (31703836) | | | 4 | | | | | | | | | | |
| | | | 55 (33876300) | | | 4 | | | | | | | | | | |
| | | | 56 (30414689) | | | 2 | | | | | | | | | | |
| | | 50 (17636770) | | | | 4 | | | | , | | | 1 | | | |
| US abdomen | May approp | be oriate | e Limited | | O 0 mSv [ped] | 5 | 5 | 0 | 0 | 0 | 1 | 7 | 5 | 0 | 1 | 0 |
| | | | References | | Study | Quality | | | | | | | | | | |

45 (28318600) 4 Fluoroscopy small bowel follow-**₩₩₩** 3-**२० २०** 1-10 Usually not 10 mSv 3 3 3 3 3 0 0 0 through Limited 4 mSv appropriate [bed] Study Quality References 55 (33876300) 4 2 56 (30414689) Fluoroscopy upper GI series **२००० 0.3**-Usually not **⊕⊕⊕** 1-10 Expert 3 mSv 2 2 4 4 3 1 2 0 0 0 appropriate mSv Consensus [bed] Fluoroscopy upper GI series with **∞∞∞∞** 3-Usually not **२० २०** 1-10 Expert small bowel follow-through 10 mSv 2 2 7 3 3 0 0 0 0 appropriate mSv Consensus [bed] CT abdomen with IV contrast **∞∞∞∞** 3-Usually not Expert **⊕⊕⊕** 1-10 12 0 0 0 0 10 mSv 1 1 0 0 mSv appropriate Consensus [bed] CT abdomen without IV contrast **२००० 3**-Usually not Expert **���** 1-10 10 mSv 1 11 0 1 2 0 1 0 0 0 1 mSv appropriate Consensus [ped] \odot CT abdomen without and with IV **२२ २० २०** 10-30 10-30 Usually not Expert contrast 0 10 1 1 0 1 1 appropriate mSv mSv Consensus [bed] CT abdomen and pelvis without **∞∞∞∞** 3-**२० २०** 1-10 Usually not Expert 10 mSv 10 1 1 2 0 0 0 0 IV contrast 1 1 1 Consensus mSv appropriate [ped] CT abdomen and pelvis without 10-30 and with IV contrast Usually not Expert ���� 10-30 9 1 3 0 0 0 0 1 1 appropriate Consensus mSv mSv [bed] **∞∞∞∞** 3-Fluoroscopy contrast enema Usually not **२० २०** 1-10 Expert 2 0 10 mSv 1 1 10 0 2 0 0 0 Consensus mSv appropriate [ped] MRI abdomen and pelvis without Usually not O 0 mSv Expert O 0 mSv 2 0 0 0 0 0 11 1 IV contrast [ped] appropriate Consensus MRI abdomen and pelvis without Usually not O 0 mSv Expert O 0 mSv 1 10 3 0 0 0 0 0 and with IV contrast appropriate Consensus [ped]

| US duplex Doppler abdomen | Usually not appropriate | Expert Consensus | O 0 mSv | O 0 mSv [ped] | 1 | 1 | 9 | 4 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
|---|-------------------------|---------------------|---------|------------------|---|---|----|---|---|---|---|---|---|---|---|
| MRI abdomen and pelvis with IV contrast | Usually not appropriate | Expert Consensus | O 0 mSv | O 0 mSv [ped] | 1 | 1 | 11 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |

Variant 5: Infant. Suspected necrotizing enterocolitis. Initial imaging.

| ъ. 1 | Appropri | ateness | COF | 414 PDI | n i per | D 4 | 34.11 | | | F | inal ' | Tabu | latio | ns | | |
|--|------------------|---------|--------------------------------|------------------------|----------------------------|-----------|--------|---|---|---|--------|------|-------|----|---|----|
| Procedure | Categ | gory | SOE | Adults RRI | L Peds RRL | Rating | Median | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Radiography abdomen and pelvis | Usua approp | | Limited | ≎≎≎ 1-10 mSv | ��� 0.3- 3 mSv [ped] | 9 | 9 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 2 | 10 |
| | | | References | | Study | y Quality | | | | | | | | | | |
| | | | 66 (27844167) 65 (18798378) | | | 4 | | | | | | | | | | |
| | | | 65 (18798378) | | | 4 | | | | | | | | | | |
| | | | 60 (21247316) | | | 4 | | | | | | | | | | |
| | | | 64 (12483631) | | | 3 | | | | | | | | | | |
| US abdomen | Usua approp | | Limited | O 0 mSv | O 0 mSv [ped] | 7 | 7 | 0 | 0 | 1 | 0 | 0 | 1 | 7 | 2 | 4 |
| | | | References | | Stud | y Quality | | | | | | | | | | |
| | | | 71 (36959616) | | | 3 | | | | | | | | | | |
| | | | 70 (37079037) | | | 3 | | | | | | | | | | |
| | | | 67 (29602968) | | | 4 | | | | | | | | | | |
| | | | 69 (29260286) | | Ina | dequate | | | | | | | | | | |
| | | | 68 (29721677) | | (| Good | | | | | | | | | | |
| CT abdomen and pelvis with IV contrast | Usuall approp | | Limited | ��� 1-10 mSv | ❤❤❤❤ 3- 10 mSv [ped] | 2 | 2 | 7 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | References | | Stud | y Quality | | | | | | | | | | |
| | | | 5 (34333905) | | | 3 | | | | | | | | | | |

| US duplex Doppler abdomen | Usually appropr | Limited | O 0 mSv | _ | 0 mSv [ped] | 2 | 2 | 3 | 5 | 5 | 0 | 1 | 0 | 0 | 0 | 0 |
|---|--------------------|-----------------------|------------------|-------------------|-----------------------------------|---------|---|----|---|---|---|---|---|---|---|---|
| | | References | | • | Study | Quality | | | | | | | | | | |
| | | 74 (31705672) | | | | 4 | | | | | | | | | | |
| | | 73 (26419386) | | | | 3 | | | | | | | | | | |
| CT abdomen and pelvis without IV contrast | Usually appropr | Expert Consensus | ��� 1-10 mSv | J 10 | & | 1 | 1 | 11 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| CT abdomen and pelvis without and with IV contrast | Usually appropr | Limited | ���� 10-3 mSv | 30 | \$\$\$\$ 10-30 mSv [ped] | 1 | 1 | 8 | 3 | 2 | 1 | 0 | 0 | 1 | 0 | 0 |
| | | References | | | Study | Quality | | | | | | | | | | |
| | | 5 (34333905) | | | | 3 | | | | | | | | | | |
| Fluoroscopy contrast enema | Usually appropr | 5 (34333905) Limited | | ⁰ 10 | & | 1 | 1 | 9 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| | | References | | • | Study | Quality | | | | | | | | | | |
| | | 63 (26831533) | | | | 3 | | | | | | | | | | |
| | | 62 (26915085) | | | | 4 | | | | | | | | | | |
| | | 61 (25023581) | | | | 3 | | | | | | | | | | |
| MRI abdomen and pelvis without IV contrast | Usually appropr | Expert Consensus | O 0 mSv | | 0 mSv [ped] | 1 | 1 | 12 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| MRI abdomen and pelvis without and with IV contrast | Usually appropr | Expert Consensus | O 0 mSv | | 0 mSv [ped] | 1 | 1 | 11 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| MRI abdomen and pelvis with IV contrast | Usually appropr | Expert Consensus | O 0 mSv | | 0 mSv [ped] | 1 | 1 | 11 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |

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.