## American College of Radiology ACR Appropriateness Criteria®

## **Preoperative and Postoperative Imaging for Bariatric Procedures**

Variant 1: Adult. Bariatric procedure. Routine preprocedure planning.

| D 1                                    | Appropri          | ateness | COE           | A L LA DDI             | D I DDI                    | D 41      | N. 11  |   |   | F | inal | Tabu | latio | ns |   |   |
|--|-------------------|---------|---------------|------------------------|----------------------------|-----------|--------|---|---|---|------|------|-------|----|---|---|
| Procedure                              | Categ             | ory     | SOE           | Adults RRL             | Peds RRL                   | Rating    | Median | 1 | 2 | 3 | 4    | 5    | 6     | 7  | 8 | 9 |
| Fluoroscopy upper GI series            | May<br>approp     |         | Limited       | ��� 1-10<br>mSv        | ��� 0.3-<br>3 mSv<br>[ped] | 6         | 6      | 0 | 0 | 0 | 1    | 4    | 5     | 2  | 0 | 0 |
|  |                   |         | References    |                        | Study                      | y Quality |        |   |   |   |      |      |       |    |   |   |
|  |                   |         | 4 (31682518)  |                        |                            | 4         |        |   |   |   |      |      |       |    |   |   |
|  |                   |         | 11 (29519608) |                        |                            | 4         |        |   |   |   |      |      |       |    |   |   |
|  |                   |         | 12 (15072649) |                        |                            | 4         |        | _ |   |   |      |      |       |    |   |   |
| Fluoroscopy single contrast esophagram | May<br>approp     |         | Limited       | <b>≎≎≎</b> 1-10<br>mSv |                            | 5         | 5      | 0 | 0 | 0 | 2    | 7    | 2     | 1  | 0 | 0 |
|  |                   |         | References    |                        | Study                      | y Quality |        |   |   |   |      |      |       |    |   |   |
|  |                   |         | 4 (31682518)  |                        |                            | 4         |        |   |   |   |      |      |       |    |   |   |
|  |                   |         | 11 (29519608) |                        |                            | 4         |        |   |   |   |      |      |       |    |   |   |
|  |                   |         | 12 (15072649) |                        |                            | 4         |        | _ |   |   |      |      |       |    |   |   |
| Fluoroscopy biphasic esophagram        | May<br>approp     |         | Limited       | <b>≎≎≎</b> 1-10<br>mSv |                            | 5         | 5      | 0 | 0 | 0 | 1    | 8    | 2     | 1  | 0 | 0 |
|  |                   |         | References    |                        | Study                      | y Quality |        |   |   |   |      |      |       |    |   |   |
|  |                   |         | 4 (31682518)  |                        |                            | 4         |        |   |   |   |      |      |       |    |   |   |
|  |                   |         | 11 (29519608) |                        |                            | 4         |        |   |   |   |      |      |       |    |   |   |
|  |                   |         | 12 (15072649) |                        |                            | 4         |        |   |   |   |      |      |       |    |   |   |
| CT abdomen and pelvis with IV contrast | Usually<br>approp |         | Limited       | ��� 1-10<br>mSv        | ���� 3-<br>10 mSv<br>[ped] | 3         | 3      | 2 | 1 | 5 | 0    | 4    | 0     | 1  | 0 | 0 |

|  |                  | References          |                   | Study                               | Quality |   |   |   |   |   |   |   |   |   |   |
|--|------------------|---------------------|-------------------|-------------------------------------|---------|---|---|---|---|---|---|---|---|---|---|
|  |                  | 10 (32917578)       |                   |                                     | 4       |   |   |   |   |   |   |   |   |   |   |
| US abdomen   | Usuall<br>approp | Limited             | O 0 mSv           | O 0 mSv<br>[ped]                    | 3       | 3 | 3 | 2 | 2 | 3 | 2 | 1 | 0 | 0 | 0 |
|  |                  | References          |                   | Study                               | Quality |   |   |   |   |   |   |   |   |   |   |
|  |                  | 11 (29519608)       |                   |                                     | 4       |   |   |   |   |   |   |   |   |   |   |
|  |                  | 13 (29627946)       |                   |                                     | 4       |   |   |   |   |   |   |   |   |   |   |
|  |                  | 14 (24101090)       |                   |                                     | 4       |   |   |   |   |   |   |   |   |   |   |
| CT abdomen and pelvis without IV contrast          | Usuall<br>approp | Expert<br>Consensus | ��� 1-10<br>mSv   | ���� 3-<br>10 mSv<br>[ped]          | 2       | 2 | 3 | 5 | 3 | 0 | 2 | 0 | 0 | 0 | 0 |
| CT abdomen and pelvis without and with IV contrast | Usuall<br>approp | Expert<br>Consensus | ���� 10-30<br>mSv | ⊕⊕⊕⊕⊕<br>0 10-30<br>mSv<br>[ped]    | 2       | 2 | 6 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fluoroscopy small bowel follow-through             | Usuall<br>approp | Expert<br>Consensus | ��� 1-10<br>mSv   | ���� 3-<br>10 mSv<br>[ped]          | 2       | 2 | 4 | 4 | 3 | 0 | 2 | 0 | 0 | 0 | 0 |
| MRI abdomen without IV contrast                    | Usuall<br>approp | Expert<br>Consensus | O 0 mSv           | O 0 mSv<br>[ped]                    | 2       | 2 | 5 | 5 | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| MRI abdomen without and with IV contrast           | Usuall<br>approp | Expert<br>Consensus | O 0 mSv           | O 0 mSv<br>[ped]                    | 2       | 2 | 5 | 5 | 1 | 0 | 2 | 0 | 0 | 0 | 0 |
| Radiography abdomen                                | Usuall<br>approp | Expert<br>Consensus | �� 0.1-1mS        | <b>⊕⊕</b> 0.03-<br>0.3 mSv<br>[ped] | 2       | 2 | 6 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |

Variant 2: Adult. Bariatric procedure. Routine immediate postprocedure evaluation.

| ъ                           | Appropriateness    | COF     | A L L DDI       | D 1 DD1                    | D (1   | 3.6.11 |   |   | F | inal ' | Гabu | lation | as |   |   |
|-----------------------------|--------------------|---------|-----------------|----------------------------|--------|--------|---|---|---|--------|------|--------|----|---|---|
| Procedure                   | Category           | SOE     | Adults RRL      | Peds RRL                   | Rating | Median | 1 | 2 | 3 | 4      | 5    | 6      | 7  | 8 | 9 |
| Fluoroscopy upper GI series | May be appropriate | Limited | ��� 1-10<br>mSv | ��� 0.3-<br>3 mSv<br>[ped] | 6      | 6      | 1 | 0 | 0 | 1      | 4    | 4      | 2  | 1 | 0 |

|   |                         | References          |                    | Study                                      | Quality |   |   |   |   |   |   |   |   |   |   |
|---|-------------------------|---------------------|--------------------|--|---------|---|---|---|---|---|---|---|---|---|---|
|   |                         | 23 (23341032)       | 1                  |  | 4       |   |   |   |   |   |   |   |   |   |   |
|   |                         | 22 (23828033)       |                    |  | 4       |   |   |   |   |   |   |   |   |   |   |
|   |                         | 19 (24119721)       |                    |  | 4       |   |   |   |   |   |   |   |   |   |   |
|   |                         | 18 (25812843)       |                    |  | 4       |   |   |   |   |   |   |   |   |   |   |
|   |                         | 15 (30542825)       |                    |  | 4       |   |   |   |   |   |   |   |   |   |   |
| CT abdomen and pelvis with IV contrast                      | May be appropriate      | Limited             | ��� 1-10<br>mSv    | ���� 3-<br>10 mSv<br>[ped]                 | 5       | 5 | 1 | 0 | 2 | 3 | 5 | 1 | 0 | 0 | 1 |
|   |                         | References          |                    | Study                                      | Quality |   |   |   |   |   |   |   |   |   |   |
|   |                         | 17 (35292901)       |                    |  | 3       |   |   |   |   |   |   |   |   |   |   |
|   |                         | 21 (27387688)       |                    |  | 3       |   |   |   |   |   |   |   |   |   |   |
| CT abdomen and pelvis without IV contrast                   | May be appropriate      | Limited             | ��� 1-10<br>mSv    | ���� 3-<br>10 mSv<br>[ped]                 | 4       | 4 | 1 | 2 | 1 | 5 | 3 | 1 | 0 | 0 | 0 |
|   |                         | References          |                    | Study                                      | Quality |   |   |   |   |   |   |   |   |   |   |
|   |                         | 17 (35292901)       |                    |  | 3       |   |   |   |   |   |   |   |   |   |   |
|   |                         | 21 (27387688)       |                    |  | 3       |   |   |   |   |   |   |   |   |   |   |
| CT abdomen and pelvis without and with IV contrast          | Usually not appropriate | Limited             | ଡେଡେଡ 10-30<br>mSv | <b>\$\$\$\$\$</b><br>10-30<br>mSv<br>[ped] | 3       | 3 | 3 | 2 | 6 | 0 | 1 | 1 | 0 | 0 | 0 |
|   |                         | References          |                    | Study                                      | Quality |   |   |   |   |   |   |   |   |   |   |
|   |                         | 17 (35292901)       |                    |  | 3       |   |   |   |   |   |   |   |   |   |   |
|   |                         | 21 (27387688)       |                    |  | 3       |   |   |   |   |   |   |   |   |   |   |
| Fluoroscopy single contrast esophagram                      | Usually not appropriate | Expert<br>Consensus | ��� 1-10<br>mSv    |  | 3       | 3 | 1 | 5 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fluoroscopy upper GI series with small bowel follow-through | Usually not appropriate | Expert<br>Consensus | ��� 1-10<br>mSv    | <b>≎≎≎≎</b> 3-<br>10 mSv<br>[ped]          | 3       | 3 | 3 | 2 | 5 | 1 | 2 | 0 | 0 | 0 | 0 |
| Radiography abdomen   | Usually not appropriate | Expert<br>Consensus | �� 0.1-1mSv        | �� 0.03-<br>0.3 mSv<br>[ped]               | 3       | 3 | 4 | 1 | 4 | 2 | 2 | 0 | 0 | 0 | 0 |

| Fluoroscopy biphasic esophagram          | Usually not appropriate | Expert<br>Consensus | ��� 1-10<br>mSv |                  | 2 | 2 | 4 | 4 | 3 | 0 | 2 | 0 | 0 | 0 | 0 |
|--|-------------------------|---------------------|-----------------|------------------|---|---|---|---|---|---|---|---|---|---|---|
| MRI abdomen without IV contrast          | Usually not appropriate | Expert<br>Consensus | O 0 mSv         | O 0 mSv<br>[ped] | 2 | 2 | 6 | 2 | 4 | 0 | 1 | 0 | 0 | 0 | 0 |
| MRI abdomen without and with IV contrast | Usually not appropriate | Expert<br>Consensus | O 0 mSv         | O 0 mSv<br>[ped] | 2 | 2 | 6 | 2 | 4 | 0 | 1 | 0 | 0 | 0 | 0 |
| US abdomen                               | Usually not appropriate | Expert<br>Consensus | O 0 mSv         | O 0 mSv<br>[ped] | 2 | 2 | 6 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |

Variant 3: Adult. Less-invasive bariatric procedure. Suspected complication. Postprocedure evaluation.

| n 1                                       | Appropri      | iateness     | COF           | 4 1 14 DD               |                 | DDI   | D 41    | 3.6.11 |   |   | I | inal ' | Tabu | latio | ns |   |   |
|---|---------------|--------------|---------------|-------------------------|-----------------|-------|---------|--------|---|---|---|--------|------|-------|----|---|---|
| Procedure                                 | Categ         |              | SOE           | Adults RR               | L Peds I        | KKL   | Rating  | Median | 1 | 2 | 3 | 4      | 5    | 6     | 7  | 8 | 9 |
| CT abdomen and pelvis with IV contrast    | May<br>approp | be<br>oriate | Limited       | <b>���</b> 1-10<br>mSv  | ) \$300<br>10 m | ıSv   | 6       | 6      | 0 | 0 | 0 | 0      | 6    | 2     | 2  | 1 | 1 |
|   |               |              | References    |                         |                 | Study | Quality |        |   |   |   |        |      |       |    |   |   |
|   |               |              | 5 (29869916)  |                         |                 |       | 4       |        |   |   |   |        |      |       |    |   |   |
|   |               |              | 26 (28983652) |                         |                 |       | 4       |        |   |   |   |        |      |       |    |   |   |
|   |               |              | 25 (24471382) |                         |                 |       | 4       |        |   |   |   |        |      |       |    |   |   |
|   |               |              | 24 (36160820) |                         |                 |       | 2       |        |   |   |   |        |      |       |    |   |   |
| Fluoroscopy upper GI series               | May<br>approp |              | Limited       | ��� 1-10<br>mSv         | 3 ms            | Sv    | 6       | 6      | 0 | 0 | 1 | 1      | 4    | 3     | 3  | 0 | 0 |
|   |               |              | References    |                         |                 | Study | Quality |        |   |   |   |        |      |       |    | • |   |
|   |               |              | 25 (24471382) |                         |                 |       | 4       |        |   |   |   |        |      |       |    |   |   |
| CT abdomen and pelvis without IV contrast | May<br>approp |              | Limited       | <b>≎⊕</b> ⊕ 1-10<br>mSv | ) \$300<br>10 m | ıSv   | 5       | 5      | 0 | 0 | 0 | 2      | 7    | 3     | 0  | 0 | 0 |
|   | •             |              | References    |                         | ·               | Study | Quality |        |   |   |   |        |      |       |    |   |   |
|   |               |              | 5 (29869916)  |                         |                 |       | 4       |        |   |   |   |        |      |       |    |   |   |
|   |               |              | 26 (28983652) |                         |                 |       | 4       |        |   |   |   |        |      |       |    |   |   |

|   |                  | 25 (24471382)       |                        |                  | 4       |   |   |   |   |   |   |   |   |   |   |
|---|------------------|---------------------|------------------------|------------------|---------|---|---|---|---|---|---|---|---|---|---|
|   |                  | 24 (36160820)       |                        |                  | 2       |   |   |   |   |   |   |   |   |   |   |
| Radiography abdomen and pelvis                              | May<br>approp    | Limited             | <b>≎≎≎</b> 1-10<br>mSv | 9                | 5       | 5 | 1 | 1 | 3 | 0 | 8 | 0 | 0 | 0 | 0 |
|   |                  | References          |                        | Study            | Quality |   |   |   |   |   |   |   |   |   |   |
|   |                  | 26 (28983652)       |                        |                  | 4       |   |   |   |   |   |   |   |   |   |   |
|   |                  | 27 (24951191)       |                        |                  | 2       |   |   |   |   |   |   |   |   |   |   |
| CT abdomen and pelvis without and with IV contrast          | Usuall<br>approp | Expert<br>Consensus | ���� 10-3<br>mSv       | 30               | 3       | 3 | 2 | 2 | 5 | 2 | 2 | 0 | 0 | 0 | 0 |
| Fluoroscopy single contrast esophagram                      | Usuall<br>approp | Expert<br>Consensus | <b>≎≎≎</b> 1-10<br>mSv |                  | 3       | 3 | 1 | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fluoroscopy biphasic esophagram                             | Usuall<br>approp | Expert<br>Consensus | <b>≎≎≎</b> 1-10<br>mSv | )                | 3       | 3 | 4 | 2 | 4 | 1 | 2 | 0 | 0 | 0 | 0 |
| Fluoroscopy upper GI series with small bowel follow-through | Usuall<br>approp | Expert<br>Consensus | ��� 1-10<br>mSv        |                  | 3       | 3 | 3 | 2 | 6 | 1 | 1 | 0 | 0 | 0 | 0 |
| US abdomen  | Usuall<br>approp | Limited             | O 0 mSv                | O 0 mSv<br>[ped] | 3       | 3 | 3 | 3 | 4 | 2 | 0 | 0 | 1 | 0 | 0 |
|   |                  | References          |                        | Study            | Quality |   |   |   |   |   |   |   |   |   |   |
|   |                  | 28 (15525891)       |                        |                  | 4       |   |   |   |   |   |   |   |   |   |   |
| MRI abdomen and pelvis without IV contrast                  | Usuall<br>approp | Expert<br>Consensus | O 0 mSv                | O 0 mSv<br>[ped] | 2       | 2 | 6 | 1 | 5 | 0 | 1 | 0 | 0 | 0 | 0 |
| MRI abdomen and pelvis without and with IV contrast         | Usuall<br>approp | Expert<br>Consensus | O 0 mSv                | O 0 mSv<br>[ped] | 2       | 2 | 6 | 1 | 5 | 0 | 1 | 0 | 0 | 0 | 0 |

Variant 4: Adult. Bariatric procedure. Suspected complication. Postprocedure evaluation.

| D 1       | Appropriateness | COF | A L L DDY  | D I DDI  | D (1   | 3.6.31 |     | F | inal | Tabu | latio | ns |   |   |
|-----------|-----------------|-----|------------|----------|--------|--------|-----|---|------|------|-------|----|---|---|
| Procedure | Category        | SOE | Adults RRL | Peds RRL | Rating | Median | 1 2 | 3 | 4    | 5    | 6     | 7  | 8 | 9 |
|           |                 |     |            |          |        |        |     |   |      |      |       |    |   |   |

|   | Appropriateness         | ~ ~ -         |                        |                            |          |        |   |   | F | inal | Tabu | latio | ns |   |   |
|---|-------------------------|---------------|------------------------|----------------------------|----------|--------|---|---|---|------|------|-------|----|---|---|
| Procedure                                 | Category                | SOE           | Adults RRL             | Peds RRL                   | Rating   | Median | 1 | 2 | 3 | 4    | 5    | 6     | 7  | 8 | 9 |
| CT abdomen and pelvis with IV contrast    | Usually appropriate     | Strong        | ��� 1-10<br>mSv        | ���� 3-<br>10 mSv<br>[ped] | 8        | 8      | 0 | 0 | 1 | 0    | 0    | 1     | 1  | 8 | 2 |
|   |                         | References    |                        | Study                      | Quality  |        |   |   |   |      |      |       |    |   |   |
|   |                         | 39 (36474098) |                        |                            | 3        |        |   |   |   |      |      |       |    |   |   |
|   |                         | 38 (32078011) |                        |                            | 1        |        |   |   |   |      |      |       |    |   |   |
|   |                         | 37 (29845311) |                        |                            | 3        |        |   |   |   |      |      |       |    |   |   |
|   |                         | 36 (25843399) |                        |                            | 3        |        |   |   |   |      |      |       |    |   |   |
|   |                         | 35 (25218014) |                        |                            | 3        |        |   |   |   |      |      |       |    |   |   |
|   |                         | 34 (27689925) |                        |                            | 3        |        |   |   |   |      |      |       |    |   |   |
|   |                         | 33 (29516397) |                        | Not A                      | Assessed |        |   |   |   |      |      |       |    |   |   |
|   |                         | 32 (25747433) |                        |                            | 2        |        |   |   |   |      |      |       |    |   |   |
|   |                         | 31 (32944801) |                        |                            | 4        |        |   |   |   |      |      |       |    |   |   |
|   |                         | 30 (29395108) |                        |                            | 4        |        |   |   |   |      |      |       |    |   |   |
|   |                         | 25 (24471382) |                        |                            | 4        |        |   |   |   |      |      |       |    |   |   |
| CT abdomen and pelvis without IV contrast | May be appropriate      | Limited       | ��� 1-10<br>mSv        | ���� 3-<br>10 mSv<br>[ped] | 6        | 6      | 0 | 0 | 1 | 0    | 4    | 2     | 6  | 0 | 0 |
|   |                         | References    |                        | Study                      | Quality  |        |   |   |   |      |      |       |    |   |   |
|   |                         | 33 (29516397) |                        | Not A                      | Assessed |        |   |   |   |      |      |       |    |   |   |
|   |                         | 32 (25747433) |                        |                            | 2        |        |   |   |   |      |      |       |    |   |   |
| Fluoroscopy upper GI series               | May be appropriate      | Limited       | ��� 1-10<br>mSv        | ��� 0.3-<br>3 mSv<br>[ped] | 6        | 6      | 1 | 0 | 0 | 1    | 3    | 2     | 2  | 3 | 1 |
|   |                         | References    |                        | Study                      | Quality  |        |   |   |   |      |      |       |    |   |   |
|   |                         | 33 (29516397) |                        | Not A                      | Assessed |        |   |   |   |      |      |       |    |   |   |
|   |                         | 32 (25747433) |                        |                            | 2        |        |   |   |   |      | _    |       |    |   |   |
| Fluoroscopy single contrast esophagram    | Usually not appropriate | Limited       | <b>≎≎≎</b> 1-10<br>mSv |                            | 3        | 3      | 0 | 4 | 8 | 0    | 0    | 0     | 0  | 0 | 0 |
|   |                         | References    |                        | Study                      | Quality  |        |   |   |   |      |      |       |    |   | _ |
|   |                         | 40 (26810364) |                        |                            | 4        |        |   |   |   |      |      |       |    |   |   |

| Fluoroscopy biphasic esophagram                             | Usuall<br>approp | Limited             | ��� 1-10<br>mSv         | )                | 3       | 3 | 1 | 4 | 5 | 1 | 2 | 0 | 0 | 0 | 0 |
|---|------------------|---------------------|-------------------------|------------------|---------|---|---|---|---|---|---|---|---|---|---|
|   |                  | References          |                         | Study            | Quality |   |   |   |   |   |   |   |   |   |   |
|   |                  | 40 (26810364)       |                         |                  | 4       |   |   |   |   |   |   |   |   |   |   |
| Fluoroscopy upper GI series with small bowel follow-through | Usuall<br>approp | Expert<br>Consensus | <b>≎≎≎</b> 1-10<br>mSv  | 9                | 3       | 3 | 2 | 3 | 4 | 1 | 2 | 0 | 1 | 0 | 0 |
| MRI abdomen and pelvis without IV contrast                  | Usuall<br>approp | Strong              | O 0 mSv                 | O 0 mSv<br>[ped] | 3       | 3 | 2 | 0 | 5 | 3 | 3 | 0 | 0 | 0 | 0 |
|   |                  | References          |                         | Study            | Quality |   |   |   |   |   |   |   |   |   |   |
|   |                  | 43 (34807405)       |                         |                  | 2       |   |   |   |   |   |   |   |   |   |   |
|   |                  | 42 (35452955)       |                         |                  | 3       |   |   |   |   |   |   |   |   |   |   |
|   |                  | 41 (30106618)       |                         |                  | 2       |   |   |   |   |   |   |   |   |   |   |
| Radiography abdomen and pelvis                              | Usuall<br>approp | Expert<br>Consensus | <b>⊛⊛</b> ⊕ 1-10<br>mSv | 9                | 3       | 3 | 4 | 2 | 4 | 0 | 2 | 0 | 0 | 1 | 0 |
| CT abdomen and pelvis without and with IV contrast          | Usuall<br>approp | Expert<br>Consensus | ���� 10-3<br>mSv        | 30               | 2       | 2 | 3 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| MRI abdomen and pelvis without and with IV contrast         | Usuall<br>approp | Expert<br>Consensus | O 0 mSv                 | O 0 mSv<br>[ped] | 2       | 2 | 4 | 3 | 4 | 1 | 1 | 0 | 0 | 0 | 0 |
| US abdomen  | Usuall<br>approp | Expert<br>Consensus | O 0 mSv                 | O 0 mSv<br>[ped] | 2       | 2 | 3 | 5 | 5 | 0 | 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.