Table SI. Surgical site infection definitions.

| Type             | Definition                                                                 |
|------------------|---------------------------------------------------------------------------|
| Superficial incisional SSI | Infection occurs within 30 days after the operation; and infection involves only skin or subcutaneous tissue of the incision; and at least one of the following: |
|                  | 1. Purulent drainage, with or without laboratory confirmation, from the superficial incision. |
|                  | 2. Organisms isolated from an aseptically obtained culture of fluid or tissue from the superficial incision. |
|                  | 3. At least one of the following signs or symptoms of infection: Pain or tenderness, localized swelling, redness or heat, and superficial incision is deliberately opened by surgeon, unless incision is culture-negative. |
|                  | 4. Diagnosis of superficial incisional SSI by the surgeon or attending physician. |
| Do not report the following conditions as SSI: | |
| 1. Stitch abscess (minimal inflammation and discharge confined to the points of suture penetration). | |
| 2. Infection of an episiotomy or newborn circumcision site. | |
| 3. Infected burn wound. | |
| 4. Incisional SSI that extends into the fascial and muscle layers (see deep incisional SSI). | |
| Deep incisional SSI | Infection occurs within 30 days after the operation if no implant is left in place or within 1 year if implant is in place; and the infection appears to be related to the operation; and infection involves deep soft tissues (e.g., fascial and muscle layers) of the incision; and at least one of the following: |
1. Purulent drainage from the deep incision but not from the organ/space component of the surgical site.

2. A deep incision spontaneously dehiscs or is deliberately opened by a surgeon when the patient has at least one of the following signs or symptoms: fever (>38°C), localized pain, or tenderness, unless site is culture-negative.

3. An abscess or other evidence of infection involving the deep incision is found on direct examination, during reoperation, or by histopathologic or radiologic examination.

4. Diagnosis of a deep incisional SSI by a surgeon or attending physician.
Table SII. Laboratory examination.

A. White blood cell (normal range, 3300-8600)

| Examination                  | Patient number | Average | P-value |
|------------------------------|----------------|---------|---------|
|                              | 1  | 2  | 3  | 4  | 5  | 6  | 7  |
| Initial presentation         | 14610 | 14820 | 11310 | 6200 | 5820 | 8530 | 9890 | 10169 |
| 1 week after surgery         | 8120  | 7150  | 13810 | 3700 | 7060 | 4830 | 6940 | 7373 | 0.26   |
| 2 weeks after surgery        | 5770  | 7570  | 10230 | 3200 | 6080 | 5570 | 6880 | 6471 | 0.15   |
| 3 weeks after surgery        | 6220  |       | 8400  |      |      |      |      |      |        |
| 4 weeks after surgery        |       | 16990 | 6750  |      |      |      |      |      |        |
| 5 weeks after surgery        | 8430  | 6240  |      |      |      |      |      |      |        |
| 6 weeks after surgery        |      | 5340  |      |      |      |      |      |      |        |
| Examination                  | Patient number |  |  |  |  |  |  |
|-----------------------------|----------------|---|---|---|---|---|---|
|                             | 1   | 2   | 3   | 4   | 5   | 6   | 7   |
| Initial presentation        | 13.1 | 27.7 | 0.11 | 2.3 | 0.13 | 15.1 | 0.2 | 8.4 |
| 1 week after surgery        | 4.8  | 0.95 | 0.67 | 0.7 | 6.6  | 0.97 | 1.2 | 2.3 | 0.75 |
| 2 weeks after surgery       | 1.2  | 0.49 | 6.3  | 0   | 0.81 | 0.23 | 0.25 | 1.3 | 0.63 |
| 3 weeks after surgery       | 0.15 | 0.28 |     |     |     |     |     |     |     |
| 4 weeks after surgery       | 12.9 | 0.09 |     |     |     |     |     |     |     |
| 5 weeks after surgery       | 0.72 | 0.11 |     |     |     |     |     |     |     |
| 6 weeks after surgery       | 0.22 |     |     |     |     |     |     |     |     |

C, Hemoglobin (normal range, 13.7-16.8)
| Examination               | Patient number | Average | P-value |
|---------------------------|----------------|---------|---------|
|                           | 1   | 2   | 3   | 4   | 5   | 6   | 7   |
| Initial presentation      | 8.7 | 8.2 | 13.8| 13.1| 12.2| 9.5 | 14.4| 11.4|
| 1 week after surgery      | 10.3| 9.4 | 10.6| 10  | 9.1 | 10  | 13.7| 10.4| 0.34|
| 2 weeks after surgery     | 11  | 10.1| 9.8 | 11.4| 9.5 | 11.4| 14.2| 11.1| 0.57|
| 3 weeks after surgery     | 11  |     | 10.7 |     |     |     |     |     |
| 4 weeks after surgery     | 10  |     | 10.4 |     |     |     |     |     |
| 5 weeks after surgery     | 9.5 |     | 10.2 |     |     |     |     |     |
| 6 weeks after surgery     | 9.7 |     |     |     |     |     |     |     |

D, Blood urea nitrogen (normal range, 8-20)
| Examination                  | Patient number | Average | P-value |
|-----------------------------|----------------|---------|---------|
|                             | 1   | 2       | 3       | 4   | 5   | 6       | 7       |
| Initial presentation        |     |         |         |     |     |         |         |
|                             | 9.7 | 43.5    | 11.7    | 20.7| 15.5| 13.7    | 14.2    | 18.4    |
| 1 week after surgery        | 7   | 5.4     | 17.6    | 19.8| 17.4| 11.5    | 12.9    | 13.1    | 0.42   |
| 2 weeks after surgery       | 7.2 | 8.3     | 10.2    | 15.4| 22.2| 13.6    | 12.8    | 12.8    | 0.20   |
| 3 weeks after surgery       | 11  |         |         |     |     |         |         |
| 4 weeks after surgery       |     | 5.8     |         |     |     |         |         |
| 5 weeks after surgery       | 6   | 12      |         |     |     |         |         |
| 6 weeks after surgery       |     |         |         |     |     |         |         |
| E, Creatinine (normal range, 0.65-1.07) |     |         |         |     |     |         |         |
| Examination                  | Patient number | Average | P-value |
|-----------------------------|----------------|---------|---------|
|                             | 1   | 2   | 3   | 4   | 5   | 6   | 7   |
| Initial presentation        | 0.63| 0.96| 0.63| 0.53| 0.92| 0.93| 0.84| 0.78|
| 1 week after surgery       | 0.46| 0.24| 0.65| 0.45| 0.72| 0.72| 0.77| 0.57| 0.11|
| 2 weeks after surgery      | 0.55| 0.28| 0.52| 0.51| 0.9 | 0.88| 0.73| 0.62| 0.11|
| 3 weeks after surgery      | 0.64|      | 0.52|     |     |     |     |     |     |
| 4 weeks after surgery      | 0.31| 0.56 |     |     |     |     |     |     |     |
| 5 weeks after surgery      | 0.29| 0.6  |     |     |     |     |     |     |     |
| 6 weeks after surgery      | 0.26| |     |     |     |     |     |     |     |
| F, Albumin (normal range, 4.1-5.1) |   |   |   |   |   |   |   |     |
| Examination                  | Patient number | Average | P-value |
|-----------------------------|----------------|---------|---------|
|                             | 1   | 2   | 3   | 4   | 5   | 6   | 7   |
| Initial presentation        | 2.4 | 1.6 | 3.7 | 3.9 | 3.8 | 2.5 | 4.7 | 3.2 |
| 1 week after surgery        | 2   | 2.4 | 2.4 | 3.2 | 2.6 | 2.1 | 3.8 | 2.6 | 0.23 |
| 2 weeks after surgery       | 2.5 | 3   | 2.1 | 3.7 | 3.2 | 2.9 | 4.6 | 3.1 | 0.57 |
| 3 weeks after surgery       | 2.8 |     | 2.5 |     |     |     |     |     |     |
| 4 weeks after surgery       |     | 2.1 | 2.8 |     |     |     |     |     |     |
| 5 weeks after surgery       | 2.4 |     | 2.9 |     |     |     |     |     |     |
| 6 weeks after surgery       |     | 3   |     |     |     |     |     |     |     |

G, Alanine aminotransferase (normal range, 10-42)
| Examination                | Patient number | Average | P-value |
|----------------------------|----------------|---------|---------|
|                            | 1   | 2   | 3   | 4   | 5   | 6   | 7   |       |
| Initial presentation       | 14  | 24  | 17  | 6   | 12  | 38  | 23  | 19   |
| 1 week after surgery       | 82  | 57  | 32  | 7   | 33  | 21  | 25  | 37   | 0.26 |
| 2 weeks after surgery      | 30  | 82  | 19  | 8   | 15  | 14  | 26  | 28   | 0.87 |
| 3 weeks after surgery      | 20  |     |     |     |     |     |     |      |      |
| 4 weeks after surgery      | 34  |     |     |     |     |     |     |      |      |
| 5 weeks after surgery      | 24  | 30  |     |     |     |     |     |      |      |
| 6 weeks after surgery      | 23  |     |     |     |     |     |     |      |      |

H, Aspartate aminotransferase (normal range, 13-30)
| Examination                  | Patient number | Average | P-value |
|-----------------------------|----------------|---------|---------|
| 1, Total bilirubin (normal range, 0.4-1.5) |                |         |         |
| Initial presentation        | 17             | 56      | 19      | 11      | 17      | 22      | 21      | 23      |
| 1 week after surgery        | 98             | 96      | 33      | 20      | 27      | 23      | 21      | 45      | 0.13    |
| 2 weeks after surgery       | 24             | 46      | 15      | 22      | 19      | 17      | 16      | 23      | 0.69    |
| 3 weeks after surgery       | 22             | 32      |         |         |         |         |         |         |         |
| 4 weeks after surgery       | 42             | 18      |         |         |         |         |         |         |         |
| 5 weeks after surgery       | 22             | 20      |         |         |         |         |         |         |         |
| 6 weeks after surgery       | 27             |         |         |         |         |         |         |         |         |
| Examination               | Patient number | Average | P-value |
|---------------------------|----------------|---------|---------|
|                           | 1   | 2   | 3   | 4   | 5   | 6   | 7   |
| Initial presentation      | 0.47 | 2.3 | 1.1 | 0.55 | 0.72 | 0.88 | 0.83 | 0.98 |
| 1 week after surgery      | 0.32 | 0.6 | 0.61 | 0.49 | 1.28 | 0.36 | 0.5  | 0.59 | 0.14 |
| 2 weeks after surgery     | 0.34 | 0.69 | 0.4 | 0.68 | 0.61 | 0.41 | 0.42 | 0.51 | 0.04 |
| 3 weeks after surgery     | 0.4 |     |     |     |     |     |     | 0.48 |
| 4 weeks after surgery     |     | 0.52 | 0.64 |
| 5 weeks after surgery     |     | 0.3 | 0.66 |
| 6 weeks after surgery     |     |     |     |     |     |     |     | 0.36 |