

**Supplementary Table 1.** Medical complications associated with impaired ambulation

| Complication   | Independent ambulation | Impaired ambulation | p-value |
|----------------|------------------------|---------------------|---------|
| Anemia         | 5 (3.7)                | 2 (3.3)             | >0.99   |
| UTI            | 0 (0)                  | 5 (8.2)             | 0.004*  |
| Arrhythmia     | 2 (1.5)                | 2 (3.3)             | 0.78    |
| DVT            | 1 (0.7)                | 2 (3.3)             | 0.47    |
| PE             | 0 (0)                  | 1 (1.6)             | 0.68    |
| Pneumonia      | 2 (1.5)                | 0 (0)               | 0.85    |
| CVA            | 0 (0)                  | 1 (1.6)             | 0.68    |
| Cardiac arrest | 0 (0)                  | 1 (1.6)             | 0.68    |
| Death          | 0 (0)                  | 1 (1.6)             | 0.68    |

Values are presented as number (%).

UTI, urinary tract infection; DVT, deep vein thrombosis; PE, pulmonary embolism; CVA, cerebrovascular accident.

\*p < 0.05.

**Supplementary Table 2.** Medical and overall complications associated with estimated blood loss

| Complication            | ≤ 500 mL | > 500 mL | p-value |
|-------------------------|----------|----------|---------|
| Anemia                  | 3 (1.8)  | 4 (14.3) | 0.006*  |
| UTI                     | 4 (2.4)  | 1 (3.6)  | >0.99   |
| Arrhythmia              | 3 (1.8)  | 1 (3.6)  | >0.99   |
| DVT                     | 1 (0.6)  | 2 (7.1)  | 0.07    |
| PE                      | 1 (0.6)  | 0 (0)    | >0.99   |
| Pneumonia               | 2 (1.2)  | 0 (0)    | >0.99   |
| Sepsis                  | 1 (0.6)  | 0 (0)    | >0.99   |
| CVA                     | 0 (0)    | 1 (3.6)  | 0.31    |
| Cardiac arrest          | 0 (0)    | 1 (3.6)  | 0.31    |
| Death                   | 0 (0)    | 1 (3.6)  | 0.31    |
| Surgical site infection | 7 (4.2)  | 0 (0)    | 0.58    |
| Dysphagia               | 2 (1.2)  | 3 (10.7) | 0.02    |
| Vocal paralysis         | 0 (0)    | 1 (3.6)  | 0.31    |
| New neurologic deficit  | 10 (6.0) | 6 (21.4) | 0.02*   |
| Durotomy                | 10 (6.0) | 1 (3.6)  | 0.95    |
| Seroma                  | 4 (2.4)  | 0 (0)    | 0.92    |
| Pain control difficulty | 4 (2.4)  | 0 (0)    | 0.92    |
| Implant malposition     | 1 (0.6)  | 2 (7.1)  | 0.07    |
| Revision within 30 days | 1 (0.6)  | 2 (7.1)  | 0.07    |

Values are presented as number (%).

UTI, urinary tract infection; DVT, deep vein thrombosis; PE, pulmonary embolism; CVA, cerebrovascular accident.

\*p < 0.05.

**Supplementary Table 3.** Surgical complications associated with operative time

| Complication            | > 240 min | ≤ 240 min | p-value |
|-------------------------|-----------|-----------|---------|
| Surgical site infection | 4 (3.0)   | 3 (4.9)   | 0.06    |
| Dysphagia               | 2 (1.5)   | 3 (4.9)   | 0.01*   |
| Vocal paralysis         | 0 (0)     | 1 (1.6)   | >0.99   |
| New neurologic deficit  | 9 (6.7)   | 7 (11.5)  | 0.28    |
| Durotomy                | 9 (6.7)   | 2 (3.3)   | 0.42    |
| Seroma                  | 4 (3.0)   | 0 (0)     | 0.34    |
| Pain control difficulty | 4 (3.0)   | 0 (0)     | 0.34    |
| Implant malposition     | 1 (0.7)   | 2 (3.3)   | 0.07    |
| Revision within 30 days | 1 (0.7)   | 2 (3.3)   | 0.07    |

Values are presented as number (%).

\*p < 0.05.

**Supplementary Table 4.** Surgical and overall complications associated with preoperative narcotic use

| Complication            | No      | Yes     | p-value |
|-------------------------|---------|---------|---------|
| Anemia                  | 4 (4.2) | 3 (3.0) | 0.92    |
| UTI                     | 1 (1.1) | 4 (4.0) | 0.41    |
| Arrhythmia              | 3 (3.2) | 1 (1.0) | 0.56    |
| DVT                     | 2 (2.1) | 1 (1.0) | 0.95    |
| PE                      | 1 (1.1) | 0 (0)   | 0.97    |
| Pneumonia               | 1 (1.1) | 1 (1.0) | >0.99   |
| Sepsis                  | 1 (1.1) | 0 (0)   | 0.97    |
| CVA                     | 0 (0)   | 1 (1.0) | >0.99   |
| Cardiac arrest          | 0 (0)   | 1 (1.0) | >0.99   |
| Death                   | 0 (0)   | 1 (1.0) | >0.99   |
| Surgical site infection | 2 (2.1) | 5 (5.0) | 0.50    |
| Dysphagia               | 2 (2.1) | 3 (3.0) | >0.99   |
| Vocal paralysis         | 1 (1.1) | 0 (0)   | 0.97    |
| New neurologic deficit  | 8 (8.4) | 8 (7.9) | >0.99   |
| Durotomy                | 3 (3.2) | 8 (7.9) | 0.26    |
| Seroma                  | 4 (4.2) | 0 (0)   | 0.05    |
| Pain control difficulty | 1 (1.1) | 3 (3.0) | 0.66    |
| Implant malposition     | 1 (1.1) | 2 (2.0) | >0.99   |
| Revision within 30 days | 1 (1.1) | 2 (2.0) | >0.99   |

Values are presented as number (%).

UTI, urinary tract infection; DVT, deep vein thrombosis; PE, pulmonary embolism; CVA, cerebrovascular accident.

\*p < 0.05.