Table SI. Surgical complexity score at the University of Science and Technology of China.

| Organs                          | Score | Comments                  |
|---------------------------------|-------|---------------------------|
| TH-BSO                          | 1     |                           |
| Omentectomy                     | 1     |                           |
| Pelvic lymphadenectomy          | 1     |                           |
| Para-aortic lymphadenectomy     | 1     |                           |
| Abdominal peritoneum stripping  | 1     |                           |
| Pelvic peritoneum stripping     | 1     |                           |
| Recto-sigmoidectomy-T-T anastomosis | 3     |                           |
| Large bowel resection           | 2     | Including stoma           |
| Diaphragm stripping/resection   | 2     |                           |
| Diaphragm burning               | 1     |                           |
| Splenectomy                     | 2     |                           |
| Liver resection                 | 2     |                           |
| Small bowel resection           | 1     |                           |
| Groin lymphadenectomy           | 1     |                           |
| Partial gastrectomy             | 1     |                           |
| Total colon-T-T anastomosis     | 3     |                           |
| Lesser sac                      | 2     |                           |
| Ureter resection and anastomosis| 2     |                           |
| Diaphragm resection-repair      | 3     |                           |
| Total/part nephrectomy resection| 2     |                           |
| Gallbladder resection           | 2     |                           |
| Pancreatic tail or body resection| 2     |                           |
| Cardio-phrenic lymphadenectomy  | 3     |                           |
| Portal lymphadenectomy          | 3     |                           |

TH-BSO, total hysterectomy-bilateral salpingo oophorectomy.
Table II. Clavien-Dindo classification of surgical complications.

| Grade | Definition |
|-------|------------|
| 1     | Any deviation from the normal postoperative course without the need for pharmacological treatment or surgical, endoscopic, and radiological interventions. Allowed therapeutic regimens are: Drugs as antiemetics, antipyretics, analgetics, diuretics, electrolytes and physiotherapy. This grade also includes wound infections opened at the bedside. |
| 2     | Requiring pharmacological treatment with drugs other than such allowed for grade I complications. Blood transfusions and total parenteral nutrition are also included. |
| 3     | Requiring surgical, endoscopic or radiological intervention |
| 3a    | Intervention not under general anesthesia |
| 3b    | Intervention under general anesthesia |
| 4     | Life-threatening complication (including CNS complications) requiring IC/ICU management |
| 4a    | Single organ dysfunction (including dialysis) |
| 4b    | Multiorgan dysfunction |
| 5     | Death of a patient |

**Suffix “d”**

If the patient suffers from a complication at the time of discharge (see examples in Table II), the suffix “d” (for “disability”) is added to the respective grade of complication. This label indicates the need for a follow-up to fully evaluate the complication.

*a*Brain hemorrhage, ischemic stroke, subarachnoidal bleeding, but excluding transient ischemic attacks.

CNS, central nervous system; IC, intermediate care; ICU, intensive care unit.
Table SIII. Characteristics of patients with grade 3-5 postoperative complications (n=15).

| Case | BMI, kg/m² | FIGO Stage | ALB, g/l | Comorbid illnesses | ASA score | CA125, U/ml | Ascites, ml | Estimated blood loss, ml | Residual disease | SCS | Grade 3-5 postoperative complications |
|------|------------|------------|----------|-------------------|-----------|-------------|------------|-------------------------|----------------|-----|-------------------------------------|
| 1    | 18.7       | IIIC       | 35.8     | 2                  | 1023      | 2500        | 1500       | R0                      | 13             |     | Pancreatic leak requiring drainage, gastric fistula requiring drainage (splenectomy and distal pancreatectomy) |
| 2    | 21.9       | IV         | 37.1     | Hypertension       | 2         | 3035        | 1000       | 1000                    | R0             | 6   | Pancreatic leak requiring drainage (splenectomy) |
| 3    | 17.5       | IV         | 38.9     | 2                  | 1489      | 3500        | 2500       | R0                      | 7              |     | Bladder fistula requiring surgery |
| 4    | 28.7       | IV         | 36.7     | 2                  | 519       | 7000        | 3000       | R0                      | 12             |     | Closure of dehiscent non-infected wound under general anesthesia |
| 5    | 24.7       | IV         | 38.3     | Hypertension, renal calculus | 3 | 392 | 100 | 600 | R0 | 6 | Closure of dehiscent non-infected wound under general anesthesia |
| 6    | 24.0       | IV         | 44.5     | 3                  | 1637      | 500         | 3500       | R0                      | 18             |     | Closure of dehiscent non-infected wound under general anesthesia |
| 7    | 21.5       | IV         | 26.9     | Hypertension       | 2         | 5000        | 4500       | 1500                    | R0             | 8   | Closure of dehiscent non-infected wound under general anesthesia |
| 8    | 20.8       | IV         | 38.2     | 2                  | 1146      | 2000        | 600        | R1                      | 10             |     | Closure of dehiscent non-infected wound under general anesthesia |
| 9    | 23.2       | IV         | 42.5     | 3                  | 2319      | 200         | 3000       | R0                      | 7              |     | Closure of dehiscent non-infected wound under general anesthesia |
| 10   | 26.6       | IIIC       | 41.4     | 2                  | 2188      | 500         | 1200       | R0                      | 6              |     | Closure of dehiscent non-infected wound under general anesthesia |
| 11   | 26.3       | IIIC       | 40.5     | 3                  | 2293      | 2000        | 1200       | RX                      | 4              |     | Closure of dehiscent non-infected wound under general anesthesia |
| 12   | 22.8       | IV         | 41.3     | 3                  | 4649      | 500         | 1500       | R0                      | 15             |     | Closure of dehiscent non-infected wound |
| Case | BMI | Stage | Cancer | Grade | ASA | SCS | FIGO | CA125 | ALB | Surgical Complexity | Diagnosis |
|------|-----|-------|--------|-------|-----|-----|------|-------|-----|--------------------|------------|
| 13   | 20.7| IIIC  | 34.8   | Somnipathy | 3   | 2619| 3000 | 2000  | R0  | 13                 | Acute respiratory failure requiring intubation |
| 14   | 25.9| IV    | 47.4   | Cervical cancer after radiotherapy | 3   | 265 | 600  | 1000  | R0  | 6                  | Rectum fistula requiring surgery          |
| 15   | 27.2| IV    | 28.9   | -     | 3   | 1735| 3000 | 2000  | R0  | 12                 | Acute respiratory failure requiring intubation, acute cardiopulmonary failure, septic shock, death |

BMI, body mass index; ALB, albumin; ASA, American Society of Anesthesiologists; SCS, surgical complexity score; FIGO, Federation International of Gynecology and Obstetrics; CA125, cancer antigen 125.
Table SIV. Distribution of complications.

| Number of complications | Grade 1-2 | Grade 3-5 |
|-------------------------|-----------|-----------|
| 1                       | 17        | 11        |
| 2                       | 10        | 3         |
| 3                       | 4         | 0         |
| 4                       | 2         | 1         |
| Total                   | 33        | 15        |
Table SV. Characteristics of patients with full-thickness diaphragm resection (n=16).

| Case | BMI, kg/m² | FIGO Stage | ALB, g/l | Comorbid illnesses | ASA score | CA125, U/ml | Ascites, ml | Estimated blood loss, ml | Residual disease | SCS | Mesh | Right cardio-phrenic angle lymph node resection | Grade 3-5 post-operative complications |
|------|------------|------------|----------|-------------------|-----------|-------------|-------------|--------------------------|----------------|-----|------|---------------------------------------------|--------------------------------------|
| 1    | 24.6       | IIIC       | 42.7     | Hypertension, diabetes | 2         | 1332        | 2000        | 3000                     | R0             | 17  | Yes  | Yes                                         |                                      |
| 2    | 24.0       | IV         | 44.5     | -                 | 3         | 1637        | 500         | 3500                     | R0             | 18  | Yes  | -                                           | Closure of dehiscent non-infected wound under local anesthesia |
| 3    | 21.5       | IV         | 26.9     | Hypertension      | 2         | 5000        | 4500        | 1500                     | R0             | 8   | -    | -                                           | Closure of dehiscent non-infected wound under local anesthesia |
| 4    | 20.2       | IV         | 40.3     | -                 | 3         | 1821        | 3000        | 6000                     | R0             | 12  | -    | -                                           |                                      |
| 5    | 17.7       | IV         | 29.6     | History of breast cancer | 1         | 247         | 500         | 1000                     | R0             | 11  | -    | -                                           |                                      |
| 6    | 27.2       | IV         | 28.9     | -                 | 2         | 1734        | 3000        | 2000                     | R0             | 12  | -    | -                                           | Acute respiratory failure requiring intubation, acute cardiopulmonary failure, septic shock and death |
|   | BMI | Stage | Age | Hypertension, cerebral infarction history | Tumor Grade | Tumor Size | Cancer Antigen 125 | FIGO | Surgical Complexity Score | ASA | Operative Status | Pathological Tumor Spread |
|---|-----|-------|-----|-------------------------------------------|-------------|-----------|-------------------|------|-----------------------------|-----|----------------------|--------------------------|
| 7 | 23.2| IV    | 37.0| Hypertension, cerebral infarction history| 2           | 1108      | 3500              | 2400 | R0                         | 22  | Yes                  | Yes                       |
| 8 | 19.5| IV    | 36.0|                                            | 3           | 7458      | 1000              | 800  | R0                         | 11  | -                    | -                         |
| 9 | 22.2| IV    | 45.9|                                            | 3           | 1595      | 5000              | 1000 | R1                         | 6   | -                    | -                         |
| 10| 24.8| III C| 44.8| Hypertension                               | 3           | 330       | 600               | 800  | R0                         | 11  | Yes                  | -                         |
| 11| 26.2| IV    | 40.4|                                            | 2           | 3779      | 2000              | 1000 | R0                         | 14  | Yes                  | -                         |
| 12| 25.7| III C| 39.8| Uterine clear cell carcinoma               | 3           | 844       | 2000              | 1000 | R0                         | 17  | -                    | -                         |
| 13| 25.8| III C| 48.5|                                            | 3           | 2024      | 0                 | 800  | R0                         | 12  | -                    | -                         |
| 14| 23.9| IVa   | 36.8|                                            | 3           | 412       | 4000              | 3000 | R0                         | 11  | -                    | -                         |
| 15| 18.4| III C| 34.8| Diabetes                                   | 3           | 358       | 3000              | 1500 | R0                         | 12  | -                    | -                         |
| 16| 27.0| III C| 36.0|                                            | 3           | 1000      | 10000             | 1000 | R0                         | 14  | -                    | -                         |

BMI, Body mass index; ALB, albumin; ASA, American Society of Anesthesiologists; SCS, surgical complexity score; FIGO, Federation International of Gynecology and Obstetrics; CA125, cancer antigen 125.