**Table S1 Demographics data of study population**

|  |  |  |
| --- | --- | --- |
|  | Number of cases | Percentage (%) |
| Total number | 247 |  |
| Total/Subtotal hysterectomy |  |  |
| Total hysterectomy | 211 | 85.43 |
| Subtotal hysterectomy | 36 | 14.57 |
| Unilateral/Bilateral salpingectomy/salpingo-oophorectomy |  |  |
| Hysterectomy | 198 | 80.16 |
| Hysterectomy + BS | 14 | 5.67 |
| Hysterectomy + USO | 32 | 12.96 |
| Hysterectomy + BSO | 3 | 1.21 |
| Surgical approach for hysterectomy |  |  |
| Abdominal | 204 | 82.59 |
| Laparoscopy | 29 | 11.74 |
| Transvaginal | 13 | 5.26 |
| Unknown | 1 | 0.41 |
| Age at hysterectomy (median[IQR](range, year) | 43[(40,46), (22-59)] |  |
| <44 | 125 | 50.61 |
| ≥44 | 122 | 49.39 |
| Age of surgery for pelvic mass (median[IQR](range, year) | 50[(47,57), (30-79)] |  |
| <51 | 127 | 51.42 |
| ≥51 | 120 | 48.58 |
| The time interval from the hysterectomy to the pelvic mass onset（median[IQR](range, year） | 5[(2,10) (0.1-37)] |  |
| <5 | 148 | 59.92 |
| ≥5 | 99 | 40.08 |
| Pathology of hysterectomy |  |  |
| Uterine leiomyoma | 155 | 62.75 |
| Adenomyosis | 57 | 23.08 |
| Endometriosis | 31 | 12.55 |
| Cervical intraepithelial neoplasia | 12 | 4.86 |
| Endometrial intraepithelial neoplasia | 5 | 2.02 |
| Vaginal massive hemorrhage | 3 | 1.21 |
| Cystic mole | 2 | 0.81 |
| Ovarian borderline mucinous adenoma | 1 | 0.41 |
| Unknown benign disease | 29 | 11.74 |
| Manifestation for medical consultation |  |  |
| Physical examination findings | 130 | 52.63 |
| Abdominal pain | 57 | 23.08 |
| Abdominal distension and anorexia | 41 | 16.59 |
| Micturition | 9 | 3.64 |
| Abnormal bowel movements (habitual changes, bloody stools, painful stools) | 7 | 2.83 |
| Vaginal flow or bleeding | 5 | 2.02 |
| Palpation by oneself | 3 | 1.21 |
| Lower limb pain | 2 | 0.81 |
| Palpitation and shortness of breath | 2 | 0.81 |
| Unknown | 4 | 1.62 |
| Nature of pelvic mass |  |  |
| Cystic | 137 | 55.47 |
| Solid | 34 | 13.77 |
| Mixed cystic solid | 65 | 26.32 |
| Unknown | 11 | 4.45 |
| Side |  |  |
| Unilateral | 139 | 56.27 |
| Bilateral | 30 | 12.15 |
| Outside the ovary | 72 | 29.15 |
| Unknown | 6 | 2.43 |
| Ca125 [median(IOQ), range, U/ml] | 20[(10.6, 67.5),  (1-6000)] |  |
| Normal range | 150 | 60.72 |
| Elevated | 71 | 28.74 |
| Undetected | 26 | 10.52 |

**Abbreviations**: BS, bilateral salpingectomy; BSO, Bilateral salpingo oophorectomy; Carbohydrate antigen-125, CA125; USO, unilateral salpingo oophorectomy.