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| **Supplementary table 1.** Clinical characterization of cancer patients diagnosed by vaginectomy. |
| Characteristics | No.  | Rate |
| *Age (52* ± 11*, range 37-68 years old）* | 16 |  |
|  30-39 | 4 | 25.0% |
|  40-49 | 2 | 12.5% |
|  50-59 | 7 | 43.8% |
|  60-69 | 3 | 18.8% |
| *Indication for hysterectomy* | 16 |  |
|  Myoma | 1 | 6.3% |
|  HSIL | 5 | 31.2% |
|  SCC | 10 | 62.5% |
| *Cytology* | 6 |  |
|  ASC-US | 3 | 50.0% |
|  HSIL | 2 | 33.3% |
|  SCC | 1 | 16.7% |
| *hrHPV* | 7 |  |
|  Positive | 7 | 100.0% |
|  Negative | 0 | 0.0% |

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| **Supplementary table 2**. Cotesting results of post-hysterectomy vaginal HSIL patients who were diagnosed by colposcopy-directed biopsy and underwent vaginectomy to exclude cancer. |
| Vaginal cytology | hrHPV |
| Positive | Negative |
| Abnormal | 36 (83.7%) | 2 (4.7%) |
| Normal | 5 (11.6%) | 0 (0.0%) |