

**Supplementary Table 1: Comparisons of the maximum among different tumor stages.**

| Tumor stage | Tumor size (cm), mean (range) |
|-------------|-------------------------------|
| IA          | 7.1(2.0–33.9)                 |
| IB*         | 3.8                           |
| IC          | 13.7(4.0–30.0)                |
| IIIC†       | 30                            |
| IV‡         | 20                            |

\*There were two cases in stage IB; one case had no figure of the tumor size, whereas the other case had a maximum diameter of 3.80 cm.†There was only one case in stage IIIC with a maximum diameter of 30 cm.‡There was only one case in stage IV with a maximum diameter of 20 cm.

**Supplementary Table 2: Comparisons of the heterologous elements/retiform pattern among different tumor differentiations.**

| Tumor differentiation | Heterologous elements | Retiform pattern |
|-----------------------|-----------------------|------------------|
| Well                  | 0                     | 0                |
| Intermediately        | 1                     | 0                |
| Poorly                | 5*                    | 9†               |

\*One case had heterologous elements in recurrence.†Three cases had a retiform pattern in recurrence.

**Supplementary Table 3: Comparisons of the pathological features among different endocrine function groups**

| Endocrine functions         | N  | Mean age (years)  | Tumor diameter $\geq 10$ cm | Poor differentiation | Stage $\geq$ IC |
|-----------------------------|----|-------------------|-----------------------------|----------------------|-----------------|
| Androgenic                  | 48 | 26.00 $\pm$ 10.85 | 9* (19.57%)                 | 24† (51.06%)         | 9(18.75%)       |
| Estrogenic                  | 13 | 61.00 $\pm$ 6.20  | 4(30.77%)                   | 9(69.23%)            | 2(15.38%)       |
| Nonhormonal                 | 19 | 33.00 $\pm$ 17.32 | 11‡ (61.11%)                | 17(89.47%)           | 11(57.89%)      |
| <i>P</i> value <sup>§</sup> |    |                   | 0.0032                      | 0.0066               | 0.0022          |

\*Two tumor diameters were undefined.†One tumor differentiation was undefined.‡One tumor diameter was undefined.§Refers to the comparisons between the nonhormonal group and androgenic and estrogenic groups.

**Supplementary Table 5: Univariate analysis of recurrent cases.**

| Items                  | N  | Relapse | P value |
|------------------------|----|---------|---------|
| Age (years)            |    |         | 0.4220  |
| <35                    | 50 | 8       |         |
| 35-50                  | 9  | 1       |         |
| >50                    | 21 | 1       |         |
| Menopausal status      |    |         | 0.2778  |
| Pre-menopause          | 59 | 9       |         |
| Post-menopause         | 21 | 1       |         |
| Clinical manifestation |    |         | 0.0114  |
| Androgenic             | 48 | 4       |         |
| Estrogenic             | 13 | 0       |         |
| Nonhormonal            | 19 | 6       |         |
| Tumor size (cm)*       |    |         | 0.0010  |
| ≥10 cm                 | 24 | 8       |         |
| <10 cm                 | 53 | 2       |         |
| Tumor stage            |    |         | 0.0035  |
| <IC                    | 58 | 3       |         |
| ≥IC                    | 22 | 7       |         |
| Tumor differentiation† |    |         | 0.1669  |
| Well                   | 5  | 0       |         |
| Intermediately         | 24 | 1       |         |
| Poorly                 | 50 | 9       |         |
| Chemotherapy           |    |         | 0.1728  |
| Receiving              | 45 | 8       |         |
| Without                | 35 | 2       |         |

\*Three cases were undefined.†One case was undefined.