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| 1. 分组变量：性别
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| **Table S1 |** Clinical data of PTC patients in different genders. |
| Subject | Male | Female | t/Z | *p* |
| Number (%) | 85 (29.93%) | 199 (70.07%) | - | - |
| Age (years) | 44.00 (34.50 - 52.50) | 44.00 (34.50 - 52.50) | -0.346 | 0.729 |
| SSL (μg/L) | 82.20 (74.80 - 88.65) | 44.00 (34.50 - 52.50) | -2.105 | 0.035 |
| BMI (kg/m2) | 27.71 ± 4.07 | 25.38 ± 3.65 | -4.702 | <0.001 |
| Height (cm) | 172.00 (170.00 - 177.00) | 160.00 (158.00 - 165.00) | -11.493 | <0.001 |
| Weight (kg) | 84.00 (73.50 - 92.00) | 65.00 (59.00 - 72.50) | -9.020 | <0.001 |
| Waist (cm) | 97.00 (92.00 - 103.50) | 87.00 (81.00 - 95.50) | -6.790 | <0.001 |
| SBP (mmHg) | 130.00 (120.00 - 140.00) | 120.00 (110.00 - 132.00) | -4.239 | <0.001 |
| DBP (mmHg) | 83.00 (77.00 - 94.00) | 78.00 (72.00 - 85.00) | -3.994 | <0.001 |
| TPOAB (IU/mL) | 11.99 (9.12 - 15.79) | 14.53 (10.10 - 21.70) | -2.538 | 0.011 |
| TGAB (IU/mL) | 17.76 (13.81 - 22.03) | 23.27 (16.20 - 77.48) | -4.739 | <0.001 |
| SSL, serum selenium level; BMI, body mass index; SBP, systolic blood pressure; DBP, diastolic blood pressure; TPOAB, thyroidperoxidase antibodies; TGAB, thyroglobulin antibody. |
| **Table S2** **|** Pearson correlation analysis of serum selenium levels and thyroid related indicators in PTC patients. |
| Subjects | Serum selenium |
| r | *p* |
| FT3 (pmol/L) | 0.145 | 0.254 |
| FT4 (pmol/L) | 0.145 | 0.253 |
| TSH (uIU/mL) | 0.028 | 0.825 |
| TPOAB (IU/mL) | -0.049 | 0.703 |
| TGAB (IU/mL) | -0.005 | 0.967 |
| FT3, free triiodothyronine; FT4, free thyroxine; TSH, thyroid stimulating hormone; TPOAB, thyroidperoxidase antibodies; TGAB, thyroglobulin antibody. |



**Figure S1 |** Serum selenium levels among different pathological features in patients with CPTC (common papillary thyroid cancer). CI, capsule invasion; NCI, no capsule invasion; ULT, unilateral tumor; BLT, bilateral tumor; UFT, unifocal tumor; MFT, multifocal tumor; M, metastasis; NM, no metastasis.