**Suppl 3.** Clinical Characteristics in Development Dataset

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| **Clinical characteristics** | **Benign tumor (n = 104)** | **Ovarian cancer (n = 47)** | **P value** |
| **Mean** | **SD** | **Mean** | **SD** |
| Hemoglobin (g/dL)a | 11.99 | 1.45 | 11.34 | 1.42 | 0.012 |
| Hematocrit (%)a | 36.70 | 4.05 | 35.37 | 4.12 | 0.065 |
| WBC (cells/mm3)a | 6,946.92 | 2,360.69 | 8,758.09 | 4,385.02 | 0.010 |
| Neutrophils (%)a | 63.62 | 7.51 | 69.01 | 9.93 | 0.001 |
| Lymphocytes (%)a | 28.15 | 6.68 | 22.68 | 9.55 | < 0.001 |
| Monocytes (%)a | 5.44 | 1.42 | 5.82 | 1.57 | 0.138 |
| Eosinophils (%)a | 2.13 | 1.64 | 1.71 | 1.65 | 0.145 |
| Platelets (103 cells/mm3)a | 281.93 | 69.91 | 387.55 | 160.81 | < 0.001 |
| Basophil (%)a | 0.65 | 0.54 | 0.78 | 1.99 | 0.554 |
| NLRa | 2.49 | 1.10 | 4.06 | 2.86 | < 0.001 |
| LMRa | 5.50 | 1.92 | 4.18 | 2.31 | < 0.001 |
| PLRa | 165.96 | 71.97 | 257.33 | 166.75 | < 0.001 |
| CA125 (U/mL)a | 90.60 | 219.07 | 1,057.62 | 2,179.35 | 0.004 |
| Size (≥ 7 cm) (%)b | 77.9 (n = 81) | 89.4 (n = 42) | 0.093 |
| Laterality (%)b (bilateral) | 15.4 (n=16) | 14.9 (n=7) | 0.938 |
| Solid (%)b | 25.0 (n= 26) | 74.5 (n = 35) | < 0.001 |
| Papillary projection (%)b | 12.5 (n = 13) | 55.3 (n = 26) | < 0.001 |
| Cystwall (%)b | 19.2 (n = 20) | 68.1. (n = 32) | < 0.001 |
| Multilocular cyst (%)b | 42.3 (n = 44) | 51.1 (n = 24) | 0.317 |
| Ascites (%)b | 6.7 (n = 7) | 31.9 (n = 15) | < 0.001 |
| Menopausal status (%)b - Premenopausal - Postmenopausal | 45.2 (n = 47)54.8 (n = 57) | 31.9 (n = 15)68.1 (n = 32) | 0.125 |

aStudent’s *t*-test. bχ2 test.