**Suppl 4.** Clinical Characteristics in Validation Dataset

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| **Clinical characteristics** | **Benign tumor (n = 28)** | **Ovarian cancer (n = 16)** | **P value** |
| **Mean** | **SD** | **Mean** | **SD** |
| Hemoglobin (g/dL)a | 12.04 | 1.46 | 11.35 | 2.01 | 0.200 |
| Hematocrit (%)a | 37.25 | 3.51 | 35.16 | 5.40 | 0.127 |
| WBC (cells/mm3)a | 7,352.50 | 2,367.80 | 8,160.63 | 2,289.00 | 0.277 |
| Neutrophils (%)a | 60.03 | 10.43 | 64.03 | 16.56 | 0.331 |
| Lymphocytes (%)a | 31.19 | 9.18 | 27.41 | 14.46 | 0.294 |
| Monocytes (%)a | 5.34 | 2.02 | 5.69 | 2.09 | 0.589 |
| Eosinophils (%)a | 2.63 | 1.39 | 2.31 | 4.54 | 0.728 |
| Platelets (103 cells/mm3)a | 295.89 | 73.23 | 347.19 | 112.86 | 0.074 |
| Basophil (%)a | 0.81 | 0.37 | 0.58 | 0.38 | 0.050 |
| NLRa | 2.37 | 1.99 | 3.24 | 2.09 | 0.177 |
| LMRa | 6.50 | 2.92 | 5.46 | 3.80 | 0.315 |
| PLRa | 147.53 | 53.06 | 203.16 | 124.02 | 0.105 |
| CA125 (U/mL) a | 150.19 | 589.65 | 538.03 | 1,004.24 | 0.113 |
| Size (≥ 7 cm) (%)b | 64.3 (n = 18) | 93.8 (n = 15) | 0.030 |
| Laterality (%)b (bilateral) | 17.9 (n=5) | 25.0 (n=4) | 0.572 |
| Solid (%)b | 39.3 (n= 11) | 62.5 (n = 10) | 0.138 |
| Papillary projection (%)b | 17.9 (n = 5) | 62.5 (n = 10) | 0.003 |
| Cystwall (%)b | 10.7 (n = 3) | 18.8 (n = 3) | 0.455 |
| Multilocular cyst (%)b | 57.1 (n = 16) | 75.0 (n = 12) | 0.236 |
| Ascites (%)b | 10.7 (n = 3) | 62.5 (n = 10) | < 0.001 |
| Menopausal status (%)b - Premenopausal - Postmenopausal | 50.0 (n = 14)50.0 (n = 14) | 43.8 (n = 7)56.3 (n = 9) | 0.690 |

aStudent’s *t*-test. bχ2 test.