

Table 1. Comparison of demographic and laboratory characteristics of the patients and healthy group

| | Patient Group | Healthy Group | p |
|--------------------------|-------------------|------------------|-------|
| Age (month) | 8(1-24) | 8(2-24) | 0.619 |
| Sex, male (n) | 116 | 49 | 0.583 |
| IPF (%) | 5.5(0.70-18.80) | 1.95 (0.80-4.10) | 0.000 |
| MPV (fL) | 9.4(8-11.80) | 8.6(7.4-9.9) | 0.000 |
| PDW (%) | 9.8(7.70-15.40) | 9.25(7.70-12.10) | 0.027 |
| WBC (10 ⁹ /L) | 10.26(2.04-24.44) | 6.72(3.14-11.50) | 0.000 |
| PLT (10 ⁹ /L) | 266(74-631) | 288 (101-449) | 0.000 |
| Eozinofil (%) | 0.3 (0.00-9.10) | 0.20 (0.00-9.10) | 0.756 |

Abbreviations: IPF: Immature platelet fraction; MPV: Mean Platelet Volume; PDW: Platelet Distribution Width; WBC: White Blood Cell Count; PLT: Platelet;

Table 2. Comparison of the clinical severity of acute bronchiolitis and laboratory findings

| | Mild | Moderate | Severe | p |
|--------------------------|------------------|------------------|-------------------|-------|
| IPF (%) | 3.35(0.7-9.60) | 5.6(1.4-18.70) | 10.80(3.60-18.80) | 0.000 |
| MPV (fL) | 9.00(8.5-11.30) | 9.50(8.00-11.80) | 10.20(8.70-11.70) | 0.000 |
| PDW (%) | 8.9(7.8-14.0) | 9.95(7.70-13.60) | 11.10(8.40-15.40) | 0.000 |
| WBC (10 ⁹ /L) | 40.9(2.81-31.00) | 11.570(4-23.80) | 9.79(4.19-23.80) | 0.422 |
| PLT(10 ⁹ /L) | 220.50(88-430) | 23.10(74-631) | 218(88-631) | 0.335 |
| Eozinofil (%) | 0.5(0.00-4.70) | 0.15(0.00-9.10) | 0.40(0.00-9.10) | 0.280 |

Abbreviations: IPF, Immature platelet fraction; MPV, Mean Platelet Volume; PDW, Platelet Distribution Width; WBC, White Blood Cell Count; PLT, Platelet.

Table 3.ROC analysis of Inflammation markers in the prediction of acute bronchiolitis

| Parameter | Cut-off | Sensitivity % | Specificity % | PPV | NPV | AUC(95% CI) | p |
|--------------------------|---------|---------------|---------------|------|------|-----------------|--------|
| IPF (%) | >3.2 | 84 | 97 | 98.7 | 73.5 | 0.95(0.91-0.97) | <0.001 |
| MPV (fL) | >9 | 78 | 72 | 86.4 | 59.7 | 0.85(0.80-0.89) | <0.001 |
| PDW (%) | >10.1 | 44 | 75 | 79.8 | 37.5 | 0.58(0.52-0.64) | 0.017 |
| WBC (10 ⁹ /L) | >9.94 | 56 | 95 | 96.2 | 49.6 | 0.79(0.73-0.83) | <0.001 |
| PLT(10 ⁹ /L) | >424 | 37 | 97 | 97.1 | 41.1 | 0.71(0.65-0.76) | <0.001 |

Abbreviations: IPF, Immature platelet fraction; MPV, Mean Platelet Volume; PDW, Platelet Distribution Width; WBC, White Blood Cell Count; PLT, Platelet; PPV, positive predictive value; NPV, negative predictive value; AUC (95% CI), area under the receiver operating characteristic curve (95% confidence interval).

^aThe Youden index of receiver operating characteristic curve was the largest when this cutoff value was used.