**Table S1: Risk Assessment for Pulmonary Embolism According to Wells, Geneva Scores, and YEARS Algorithm**

|  |  |  |  |
| --- | --- | --- | --- |
| Variable | PE Patients(n=104) | Non-PE Patients(n=1319) | p-value |
| Wells Score |  |  |  |
| Median (Q1-Q3) | 1.5 (0.0–3.0) | 1.0 (0.0–1.5) | <0.001 |
| Probability of PE according to Wells score, n () |  |  | <0.001 |
| Low risk | 86 (82.7) | 1253 (95.0) |  |
| Moderate risk | 12 (11.5) | 58 (4.4) |  |
| High risk  | 6 (5.8) | 8 (0.6) |  |
| Geneva Score |  |  |  |
| Median (IQR) | 6.0 (4.0–8.0) | 5.0 (3.0–6.0) | <0.001 |
| Probability of PE according to Geneva score |  |  | <0.001 |
| Low risk, n () | 15 (14.4) | 369 (28.0) |  |
| Moderate risk, n () | 72 (69.2) | 925 (70.1) |  |
| High risk, n () | 17 (16.3) | 25 (1.9) |  |
| YEARS Algorithm |  |  | <0.001 |
| 0 items, n () | 81 (77.9) | 1206 (91.4) |  |
| ≥1 item, n () | 23 (22.1) | 113 (8.6) |  |

PE, Pulmonary Embolism; IQR, Interquartile Range.

**Table S2: Diagnostic Accuracy of Wells, Geneva Scores combined with D-Dimer, YEARS Algorithm, and PEGeD Algorithm**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Algorithm | Sensitivity(%) | Specificity(%) | PPV(%) | NPV(%) | PLR | NLR |
| Wells score + DD 500 ng/mL | 96.15 [92.46 - 99.85] | 5.16 [3.96 - 6.35] | 7.40 [6.01 - 8.80] | 94.44 [89.15 - 99.74] | 1.01 [0.97 - 1.06] | 0.75 [0.28 -2.00] |
| Wells score + AADD  | 95.19 [91.08 - 99.30] | 8.11 [6.64 - 9.59] | 7.55 [6.12 - 8.98] | 95.54 [91.17 - 99.36] | 1.04 [0.99 - 1.08] | 0.59 [0.25 -1.42] |
| Geneva score + DD 500 ng/mL | 96.15 [92.46 - 99.85] | 5.08 [3.89 - 6.26] | 7.40 [6.00 - 8.79] | 94.37 [89.00 - 99.73] | 1.01 [0.97 - 1.05] | 0.76 [0.28 - 2.04] |
| Geneva score + AADD  | 95.19 [91.08 - 99.30] | 8.04 [6.57 - 9.50] | 7.54 [6.12 - 8.97] | 95.50 [91.64 - 99.35] | 1.04 [0.99 - 1.08] | 0.60 [0.25 - 1.43] |
| YEARS algorithm | 85.58 [78.82 - 92.33] | 30.93 [28.44 - 33.43] | 8.90 [7.14 - 10.66] | 96.45 [94.69 - 98.22] | 1.24 [1.14 - 1.35] | 0.47 [0.29 - 0.75] |
| PEGeD algorithm | 85.58 [78.82 - 92.33] | 32.22 [29.70 - 34.74] | 9.05 [7.26 - 10.85] | 96.59 [94.90 - 98.29] | 1.26 [1.16 - 1.38] | 0.45 [0.28 - 0.72] |

PPV (Positive Predictive Value), NPV (Negative Predictive Value), PLR (Positive Likelihood Ratio), NLR (Negative Likelihood Ratio), AADD (Age-Adjusted D-Dimer), DD (D-Dimer).