Supplementary Table 2. Results of the examination of the ability of procalcitonin (PCT) elevation (≥0.5 ng/ml) and lactate (LAC) elevation (≥19.8 mg/dl) to continue to predict positive blood culture and blood culture positive for gram-negative bacteria (GNB) or gram-positive bacteria (GPB) in an expanded cohort of similar patients.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cohort\* (no. of patients)** | **Elevation of PCT and lactate** | **Sensitivity (95% Confidence Interval, CI)** | **Specificity (95% CI)** | **Accuracy (95% CI)** | **Positive-test likelihood (95% CI)** | **Negative-test likelihood (95% CI)** | **Odds Ratio (95% CI)** | ***P* value** |
| Initial (n = 886) | To predict pos. BC (n = 255) | 0.53(0.46–0.6) | 0.78 (0.75–0.81) | 0.72 (0.7–0.75) | 2.41 (1.98–2.91) | 0.60 (0.51–0.7) | 3.98 (2.81–5.63) | <0.0001 |
| Expanded (n = 923) | To predict pos. BC (n = 267) | 0.53(0.46–0.6) | 0.78(0.75–0.81) | 0.72 (0.69–0.75) | 2.39(1.97–2.87) | 0.6(0.51–0.7) | 3.94(2.81–5.55) | <0.0001 |
|  |
| Initial (n = 886) | To predict GNB (n = 224) | 0.58 (0.49 – 0.67) | 0.78 (0.75 – 0.81) | 0.75 (0.72–0.78) | 2.64 (2.14 – 3.22) | 0.54 (0.43 – 0.65) | 4.90(3.24 – 7.45) | <0.0001 |
| Expanded (n = 923) | To predict GNB (n = 236) | 0.59(0.5–0.68) | 0.78(0.75–0.81) | 0.75 (0.72–0.78) | 2.65(2.16–3.22) | 0.53(0.42–0.64) | 5.02(3.33–7.6) | <0.0001 |
|  |
| Initial (n = 886) | To predict GPB (n = 184)  | 0.45 (0.34–0.57) | 0.78 (0.75–0.81) | 0.75 (0.72–0.78) | 2.06 (1.52–2.70) | 0.7 (0.55–0.85) | 2.93 (1.73–4.96) | <0.0001 |
| Expanded (n = 923) | To predict GPB (n = 193) | 0.44(0.33–0.56) | 0.78(0.75–0.81) | 0.75 (0.72–0.78) | 1.98(1.46–2.6) | 0.72(0.57–0.86) | 2.75(1.63–4.61) | <0.0001 |

\*\*Two study cohorts: the first is the original research cohort (n = 886) and another is the expanded cohort consisting of all cases who had simultaneous PCT and lactate testing and blood cultures results (n = 923).