**Supplemental Table 2**. **Diagnostic Characteristics of Elastic Net Analysis**

| | Statistic (%, 95% CI) |
|---|---|
| Optimal logistic model logit {P(Direct ARDS)} | -0.005<br>- 0.77* Ang-2<br>- 0.81* I-L8<br>+ 0.74 * RANTES<br>- 0.60* TNF-RII |
| Area under the ROC curve | 84 |
| Optimal cut-off probability | 68 |
| Sensitivity | 65 (51 – 78 |
| Specificity | 83 (69 – 92) |
| Positive predictive value | 81 (66 – 91) |
| Negative predictive value | 68 (54 – 80) |

Ang = angiopoietin; IL = interleukin; RANTES = regulated on activation, normal T cell expressed and secreted; ROC = receiver-operating-characteristics; TNF-RII = tumor necrosis factor-receptor II