**Table 4. Multivariable analysis**

|  |  |  |  |
| --- | --- | --- | --- |
| **Variables**  | **Adjusted analysis** | **Likelihood Ratio (95% CI)** | **Posttest Probability (%)** |
| **OR (95% CI)** | ***p*-value** | **Positive** | **Negative** |  |
| **Preoperative**  |  |  |  |  |  |
| Age (years) <65  65-74 75-84 >85 | ref1.18 (0.98, 1.42)1.50 (1.25, 1.80)2.52 (2.05, 3.09) | 0.076<0.001<0.001 | --1.74 (1.59, 1.90) | --0.85 (0.82, 0.88) | --29.4 |
| Male sex | 1.09 (0.96, 1.24) | 0.1678 |  |  |  |
| Body mass index, kg/m2 Normal (18.50-24.99) Underweight (<18.50) Overweight (> 25.00) Obese I (30.00 – 35.00) Obese II (35.00 – 40.00) Obese III (> 40) | ref1.53 (1.17, 2.01)0.83 (0.71, 0.96)0.93 (0.77, 1.12)0.98 (0.76, 1.26)1.13 (0.84, 1.52) | 0.0020.0130.4260.8430.409 | 2.04 (1.63, 2.56)---- | 0.96 (0.95, 0.98)---- | 32.8---- |
| ASA Classification 1 or 2 3 4 5 | ref1.48 (1.14, 1.92)1.76 (1.33, 2.31)3.48 (2.20, 5.48) |  0.003<0.001<0.001 | -1.43 (1.33, 1.53)3.73 (2.47, 4.58) | -0.83 (0.80, 0.87)0.97 (0.96, 0.98) | 25.547.1 |
| Ascites | 1.81 (1.15, 2.87) | 0.011 | 3.04 (2.03, 4.55) | 0.98 (0.98-0.99) | 42.1 |
| Disseminated cancer | 1.54 (1.18, 2.00) | 0.002 | 1.35 (1.08, 1.69) | 0.99 (0.97, 1.00) | 24.4 |
| Congestive heart failure  | 1.32 (1.05, 1.66) | 0.018 | - | - |  |
| Diabetes mellitus None Non-insulin Insulin  | ref 0.86 (0.72, 1.03)0.85 (0.72, 1.01) | 0.0960.060 | -- | -- | -- |
| Renal failure  | 1.35 (1.16, 1.58) | <0.001 | - | - | - |
| Dialysis | 1.13 (0.88, 1.46) | 0.352 | - | - | - |
| History of severe COPD | 1.34 (1.13, 1.58) | 0.001 | - | - | - |
| Systemic Sepsis  None SIRS Sepsis Septic Shock  | ref1.55 (1.26, 1.90)1.75 (1.39, 2.20)1.79 (1.34, 2.37) | <0.001<0.001<0.001 | 1.75 (1.49, 2.05)2.05 (1.71, 2.44)2.87 2.33, 3.54) | 0.95 (0.93, 0.97)0.95 (0.93, 0.96)0.95 (0.93, 0.96) | 29.532.940.7 |
| Hypertension requiring medication | 0.83 (0.71, 0.97) | 0.022 | - | - | - |
| Steroid use for chronic condition  | 1.00 (0.79, 1.26) | 0.971 | - | - | - |
| Dyspnea None  Moderate exertion At rest  | ref1.05 (0.87, 1.25)1.94 (1.32, 2.86) | 0.6280.001 | -2.55 (1.83, 3.55) | -0.98 (0.97, 0.99) | 38.0 |
| Anemia | 0.97 (0.84, 1.12) | 0.659 | - | - | - |
| Transfusion | 1.09 (0.84, 1.39) | 0.525 | - | - | - |
| Surgical urgency Elective Emergent | ref1.44 (1.24, 1.67) | <0.001 | - | - | - |
| Procedural risk Intermediate-risk High-risk  | ref1.47 (1.15, 1.88) | 0.002 | - | - | - |
| **Intraoperative** |  |  |  |  |  |
| Operation time (per 10 mins) | 1.00 (1.00, 1.00) | 0.533 | - | - | - |
| **Postoperative**  |  |  |  |  |  |
| Any complication\* | 1.43 (1.25, 1.65) | <0.001 | - | - | - |

Ref: reference group; OR: odds ratio; CI: confidence interval; ASA: American Society of Anesthesiologists; COPD: chronic obstructive pulmonary disease; SIRS: systemic inflammatory response syndrome

\*Includes: acute renal failure, bleeding transfusion, deep venous thrombosis /thrombophlebitis, sepsis, septic shock, pneumonia, ventilation, pulmonary embolism, cerebrovascular accident /stroke with neurological deficit, wound disruption, deep incisional surgical site infection, organ space surgical site infection, unplanned reoperation 1, and unplanned reoperation 2.