**Table 7. Post-hoc sensitivity analysis**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Variables**  | **AOR (95% CI)** | **p-value** | **Likelihood Ratio (95% CI)** | **Posttest Probability (%)** |
| **Preoperative**  |  | **Positive** | **Negative** |  |
| Age (years) <65 65-74 75-84 >85 | ref1.18 (0.98, 1.43)1.52 (1.26, 1.83)2.61 (2.13, 3.21) | 0.074<0.001<0.001 | -1.00 (0.92, 1.08)1.74 (1.59, 1.90) | -1.00 (0.97, 1.04)0.85 (0.82, 0.88) | -19.329.4 |
| Male sex | 1.08 (0.96, 1.23) | 0.2063 |  |  |  |
| 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) | ref1.54 (1.17, 2.01)0.82 (0.70, 0.95)0.91 (0.76, 1.10)0.94 (0.73, 1.21)1.08 (0.81, 1.45) | 0.0020.0080.3330.6190.588 | 2.04 (1.63, 2.56)---- | 0.96 (0.95, 0.98)---- | 32.8---- |
| ASA Classification 1 or 2 3 4 5 | ref1.50 (1.15, 1.94)1.79 (1.36, 2.36)3.43 (2.17, 5.41) | 0.002<0.001<0.001 | -1.43 (1.33, 1.53)3.73 (2.74, 5.06) | -0.83 (0.80, 0.87)0.97 (0.96, 0.98) | -25.547.1 |
| Ascites | 1.77 (1.12, 2.80) | 0.015 | 3.04 (2.03, 4.55) | 0.98 (0.98, 0.99) | 42.1 |
| Disseminated cancer | 1.56 (1.19, 2.03) | 0.001 | 1.35 (1.08, 1.69) | 0.99 (0.97, 1.00) | 24.4 |
| Congestive heart failure  | 1.34 (1.07, 1.69) | 0.012 | - | - | - |
| Diabetes mellitus None Non-insulin Insulin  | ref0.87 (0.73, 1.04)0.86 (0.73, 1.02) | 0.1300.085 | -- | -- | -- |
| Renal failure  | 1.33 (1.14, 1.55) | <0.001 | - | - | - |
| Dialysis | 1.13 (0.87, 1.46) | 0.351 | - | - | - |
| History of severe COPD | 1.34 (1.13, 1.59) | 0.001 | - | - | - |
| Systemic Sepsis  None SIRS Sepsis Septic Shock  | ref1.52 (1.24, 1.87)1.80 (1.43, 2.26)1.73 (1.31, 2.30) | <0.001<0.001<0.001 | 1.75 (1.49, 2.05)2.05 (1.71, 2.44)2.87 (2.33, 3.54) | 1.75 (1.49, 2.05)2.05 (1.71, 2.44)2.87 (2.33, 3.54) | 29.532.940.7 |
| Hypertension requiring medication | 0.83 (0.71, 0.97) | 0.022 | - | - | - |
| Steroid use for chronic condition  | 0.99 (0.78, 1.25) | 0.935 | - | - | - |
| Dyspnea None Moderate exertion At rest  | ref1.04 (0.87, 1.25)1.91 (1.30, 2.82) | 0.6520.001 | -2.55 (1.83, 3.55) | -0.98 (0.97, 0.99) | -37.9 |
| Anemia | 0.99 (0.86, 1.14) | 0.873 | - | - | - |
| Transfusion | 1.10 (0.86, 1.42) | 0.452 | - | - | - |
| Surgical urgency Elective Emergent | ref1.51 (1.30, 1.75) | <0.001 | 1.49 (1.43, 1.56) | 0.59 (0.55, 0.64) | 26.3 |
| **Intraoperative** |  |  |  |  |
| Operation time (per 10 mins) | 1.00 (1.00, 1.00) | 0.280 | - | - | - |
| **Postoperative**  |  |  |  |  |
| Acute renal failure  | 1.74 (1.03, 2.94) | 0.037 | 2.32 (1.49, 3.61) | 0.99 (0.98, 1.00) | 35.7 |
| Sepsis | 0.75 (0.49, 1.15) | 0.184 | - | - | - |
| Pneumonia or ventilation | 1.66 (1.35, 2.04) | <0.001 | 2.11 (1.79, 2.48) | 0.94 (0.92, 0.95) | 33.5 |

Ref=referent group

AOR= adjusted odds ratio; CI=confidence interval; FTR= failure to rescue; ASA = American Society of Anesthesiologists; COPD = chronic obstructive pulmonary disease

\* The work relative value unit variable was used as a spline function to account for procedural risk.

\*Spline regression beta-coefficients: spline 1 = 0, spline 2 = 0, spline 3= 0.0003. They should not be interpreted as odds ratios.