**Table 6. 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 | ref  1.18 (0.98, 1.42)  1.51 (1.25, 1.81)  2.57 (2.09, 3.15) | 0.084  <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) | -  19.3  29.4 |
| Male sex | 1.09 (0.96, 1.24) | 0.174 | - | - | - |
| 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) | ref  1.53 (1.17, 2.01)  0.82 (0.71, 0.95)  0.93 (0.77, 1.12)  0.97 (0.75, 1.25)  1.12 (0.84, 1.50) | 0.002  0.010  0.425  0.795  0.440 | 2.04 (1.63, 2.56)  -  -  -  - | 0.96 (0.95, 0.98)  -  -  -  - | 32.8  -  -  -  - |
| ASA Classification  1or 2  3  4  5 | ref  1.47 (1.13, 1.90)  1.73 (1.31, 2.28)  3.29 (2.08, 5.20) | 0.004  <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) | -  25.5  47.1 |
| Ascites | 1.76 (1.11, 2.78) | 0.016 | 3.04 (2.03, 4.55) | 0.98 (0.98, 0.99) | 42.1 |
| Disseminated cancer | 1.54 (1.18, 2.01) | 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 | ref  0.87 (0.72, 1.03)  0.86 (0.73, 1.02) | 0.112  0.079 | -  - | -  - | -  - |
| Renal failure | 1.33 (1.14, 1.55) | <0.001 | - | - | - |
| Dialysis | 1.16 (0.90, 1.50) | 0.255 | - | - | - |
| History of severe COPD | 1.33 (1.13, 1.58) | 0.001 | - | - | - |
| Systemic Sepsis  None  SIRS  Sepsis  Septic Shock | ref  1.53 (1.24, 1.88)  1.80 (1.43, 2.26)  1.72 (1.30, 2.27) | <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) | 29.5  32.9  40.7 |
| Hypertension requiring medication | 0.84 (0.72, 0.98) | 0.024 | - | - | - |
| Steroid use for chronic condition | 1.00 (0.79, 1.26) | 0.983 | - | - | - |
| Dyspnea  None  Moderate exertion  At rest | ref  1.03 (0.86, 1.24)  1.91 (1.29, 2.81) | 0.729  0.001 | -  2.55 (1.83, 3.55) | -  0.98 (0.97, 0.99) | -  37.9 |
| Anemia | 0.99 (0.86, 1.14) | 0.870 | - | - | - |
| Transfusion | 1.09 (0.85, 1.41) | 0.485 | - | - | - |
| Surgical urgency  Elective  Emergent | ref  1.46 (1.26, 1.69) | <0.001 | - | - | - |
| Procedural risk  Intermediate-risk  High-risk | ref  1.45 (1.13, 1.86) | 0.003 | - | - | - |
| **Intraoperative** |  | |  |  |  |
| Operation time (per 10 mins) | 1.00 (1.00, 1.01) | 0.469 | - | - | - |
| **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 | 0.76 (0.49, 1.17) | 0.214 | - | - | - |
| 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