**Table 5. Multiple imputation analyses**

|  |  |
| --- | --- |
| **Variables**  | **Multiple imputation of missing data** |
| **OR (95% CI)** | ***p*-value** |
| **Preoperative**  |  |  |
| Age (years) <65  65-74 75-84 >85 | ref1.16 (0.97, 1.38)1.48 (1.25, 1.76)2.40 (1.98, 2.90) | 0.101<0.001<0.001 |
| Male sex | 1.10 (0.98, 1.23) | 0.108 |
| 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) | ref1.39 (1.06, 1.81)0.83 (0.72, 0.95)0.88 (0.74, 1.06)0.97 (0.75, 1.24)1.09 (0.83, 1.45) | 0.0160.0090.1800.7800.526 |
| ASA Classification 1 or 2 3 4 5 | ref1.49 (1.17, 1.90)1.83 (1.42, 2.36)3.11 (2.05, 4.70) | 0.001<0.001<0.001 |
| Ascites | 1.78 (1.15, 2.77) | 0.010 |
| Disseminated cancer | 1.49 (1.16, 1.92) | 0.002 |
| Congestive heart failure  | 1.25 (1.01, 1.55) | 0.041 |
| Diabetes mellitus None Non-insulin Insulin  | ref0.86 (0.73, 1.02)0.87 (0.74, 1.02) | 0.0770.081 |
| Renal failure  | 1.38 (1.19, 1.59) | <0.001 |
| Dialysis | 1.12 (0.88, 1.42) | 0.371 |
| History of severe COPD | 1.32 (1.13, 1.54) | 0.001 |
| Systemic Sepsis  None SIRS Sepsis Septic Shock  | ref 1.45 (1.20, 1.76)1.66 (1.34, 2.06)1.95 (1.51, 2.53) | <0.001<0.001<0.001 |
| Hypertension requiring medication | 0.84 (0.73, 0.97) | 0.020 |
| Steroid use for chronic condition  | 0.89 (0.72, 1.12) | 0.325 |
| Dyspnea None  Moderate exertion At rest  | ref1.09 (0.93, 1.29)1.70 (1.17, 2.47) | 0.2890.005 |
| Anemia | 1.00 (0.87, 1.15) | 0.990 |
| Transfusion | 1.10 (0.87, 1.39) | 0.427 |
| Surgical urgency Elective Emergent | ref1.49 (1.30, 1.71) | <0.001 |
| Procedural risk Intermediate-risk High-risk  | ref 1.42 (1.13, 1.78) | 0.003 |
| **Intraoperative** |  |  |
| Operation time (per 10 mins) | 1.00 (1.00, 1.00) | 0.350 |
| **Postoperative**  |  |  |
| Any complication\* | 1.38 (1.22, 1.58) | <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.