**Supplemental Table 1. Variables included in the multivariable logistic regression model associated with operative mortality**

|  |
| --- |
| **Independent Variables** |
|  |
| **Demographics** |
| Age at operation |
| Gender |
|  |
| **Preoperative Risk Factors** |
| Family history of coronary artery disease |
| Hypertension |
| Smoking history |
| Dyslipidemia |
| Diabetes |
| Renal insufficiency (Creatinine > 2.0 m/dL) |
| Peripheral artery disease |
| Congestive heart failure |
| Arrhythmia |
| Previous myocardial infarction |
| Angina symptoms |
| Previous cerebral vascular accident |
| New York Heart Association Class III or IV |
| Abnormal ejection fraction (<0.50) |
| Surgical urgency (elective versus nonelective) |
| Surgical history (first operation versus reoperation) |
|  |
| **Intraoperative Risk Factors** |
| Valve type (Porcine xenograft) |
| Valve etiology-rheumatic |
| Valve etiology -congenital |
| Valve etiology -calcific |
| Valve etiology -bacterial endocarditis |
| Valve etiology -bicuspid |
|  |
| **Dependent Variable** |
| Operative mortality |

**Supplemental Table 2. Variables included in the multivariate Cox regression model associated with late mortality**

|  |
| --- |
| **Independent Variables** |
|  |
| **Demographics** |
| Age at operation |
| Gender |
|  |
| **Preoperative Risk Factors** |
| Family history of coronary artery disease |
| Hypertension |
| Smoking history |
| Dyslipidemia |
| Diabetes |
| Renal insufficiency (Creatinine > 2.0 m/dL) |
| Peripheral artery disease |
| Congestive heart failure |
| Arrhythmia |
| Previous myocardial infarction |
| Angina symptoms |
| Previous cerebral vascular accident |
| New York Heart Association Class III or IV |
| Abnormal ejection fraction (<0.50) |
| Surgical urgency (elective versus nonelective) |
| Surgical history (first operation versus reoperation) |
|  |
| **Intraoperative Risk Factors** |
| Valve type (Porcine xenograft) |
| Valve etiology-rheumatic |
| Valve etiology -congenital |
| Valve etiology -calcific |
| Valve etiology -bacterial endocarditis |
| Valve etiology -bicuspid |
|  |
| **Postoperative Risk Factors** |
| Reoperation |
| Transient ischemic attack |
| Cerebral vascular accident |
| Ventilator prolonged (>24 hours) |
| Renal insufficiency (Creatinine > 2.0 m/dL) |
| Gastrointestinal |
| Atrial fibrillation |
| Deep sternal wound infection |
| Cardiac arrest |
|  |
| **Dependent Variable** |
| Late mortality |