SUPPLEMENTAL (ONLINE-ONLY) MATERIAL

Appendix E1. Variables Included in Multivariable Hazard Modeling

Patient

Demographic: Age (y), sex, weight (kg), height (cm), body surface area

(m²), body mass index (kg·m⁻²)

Symptoms: New York Heart Association functional class (I-IV),

emergency operation

Ventricular dysfunction: Prior myocardial infarction

Aortic valve pathology: Aortic valve regurgitation

Aortic valve function/size: Orifice area (cm²), mean gradient (mmHg), peak gradient

(mmHg)

Aortic valve etiology: Degenerative

Other pathology: Tricuspid valve regurgitation, mitral valve regurgitation

Coronary anatomy: Left main trunk disease (% stenosis), left anterior

descending coronary artery system disease (maximum %

stenosis), right coronary artery system disease (maximum %

stenosis), left circumflex coronary artery system disease

(maximum % stenosis)

Other cardiac comorbidity: History of cardiac disease, complete heart block or pacer, ventricular arrhythmia, heart failure

Left atrium: Diameter (cm), volume (mL), volume index (mL•m⁻²)

Noncardiac comorbidity: Treated diabetes, history of peripheral arterial disease,

smoking, carotid disease, hypertension, popliteal disease,

creatinine (mg•dL⁻¹), blood urea nitrogen (mg•dL⁻¹),

cholesterol (mg•dL⁻¹), bilirubin (mg•dL⁻¹), creatinine

clearance, glomerular filtration rate, hematocrit (%)

Experience: Date of operation (years since 1/1/1982)

Left ventricle

variables: Structure: Inner diameter in diastole (cm), inner diameter in

systole (cm), diastolic volume (mL), systolic volume (mL),

diastolic volume index (mL•m-2), systolic volume index

 $(mL \cdot m^{-2})$

Function: Fractional shortening, ejection fraction (%), relative

wall thickness (wall stress)

Mass: Mass (g), mass index (g•m⁻²), posterior wall thickness

(cm), septal thickness (cm)

Medication: On lipid-lowering drug (preoperative, at discharge)

AV prosthesis

variables: Valve size, Z-value

Intraoperative: Other procedure: Internal thoracic artery graft used, coronary

artery bypass grafting

Support: Aortic clamp time (min), cardiopulmonary bypass

time (min)

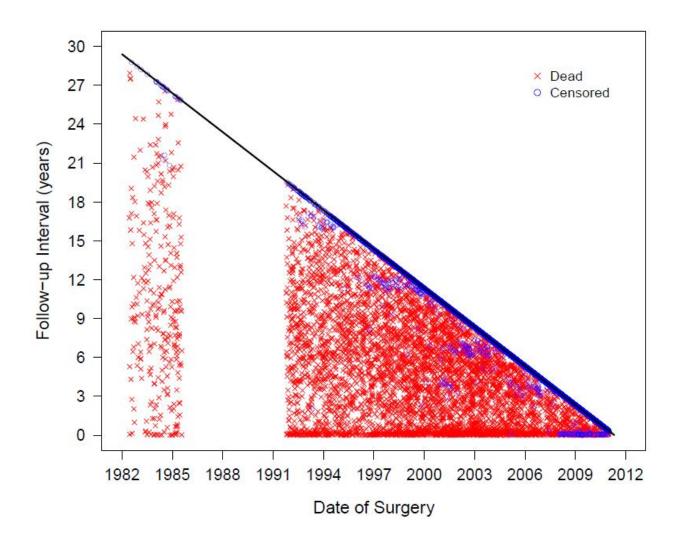


Figure E1. Goodness of follow-up, depicted by follow-up intervals for the censored patients (blue circles) and time to death (red crosses), ordered by date of surgery.

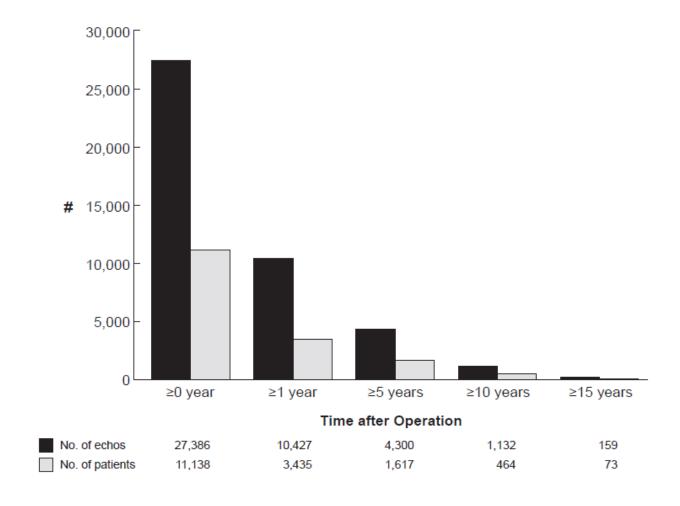


Figure E2. Number of patients with postoperative echocardiograms available at and beyond various time points, and number of echocardiograms available for analysis.