



Table S1: Multivariate random survival forest

Variable.	Cardiac Mortality p-Value	All-Cause Mortality p-Value
Age, years	0.386	0.019
Gender, male	0.478	0.119
BMI*, kg/m ²	0.668	0.648
COPD*	0.516	0.38
Diabetes mellitus	0.345	0.055
Systemic hypertension	0.328	0.201
Pulmonary hypertension	0.118	0.175
Preoperative creatinine	0.083	0.084
Prior myocardial infarction	0.477	0.069
NYHA III-IV	0.127	0.056
Urgent/Emergent indication	0.218	0.002
Logistic EuroSCORE I	0.802	0.701
EuroSCORE II	0.785	0.246
STS-PROM	0.045	0.476
Ejection fraction <50%	0.143	0.035
Cross-clamp time	0.821	0.647
CPB*-time	0.065	0.107
Prothesis size	0.646	0.56
Concomitant SAVR	0.01	0.003

*BMI=Body mass index; *COPD=Chronic obstructive pulmonary disease; *NYHA=New York Heart Association, *CPB=Cardiopulmonary bypass.