Variables Involved in STS Risk Modeling

Database Section / Variable	Operative Mortality Models			CAB Morbidity Models					Combined Outcomes (Mortality, Morbidity)	CAB Length of Stay Models	
	CAB	Valve	Valve+ CAB	Reop	Stroke	Deep Sternal Infx	Renal Failure	Prolonged Vent		Short Stay	Long Stay
B. Demographic											
Age	×	×	×	×	×	×	×	×	×	×	×
Gender	×	×	×	×	×	×	×	×	×	×	×
Race	×			×	×	×	×	×	×	×	×
D. Risk Factors											
Body Surface Area (Using Ht, Wt)	×	×	×	×	×	×	×	×	×		×
Diabetes	×	×	×	×	×	×	×	×	×	×	×
Diabetes Control	×			×	×	×	×	×	×	×	×
Renal Failure	×	×	×	×	×	×	×	×	×	×	×
Dialysis-Dependent Renal Failure	×	×	×	×	×	×	×	×	×	×	×
Hypertension	×	×		×	×	×	×	×	×	×	×
Hypercholesterolemia	×							×	×	×	×
Chronic Lung Disease	×	×	×	×		×	×	×	×	×	×
Peripheral Vascular Disease	×	×	×	×	×	×	×	×	×	×	×
Cerebrovascular Disease	×			×	×	×	×	×	×	×	×
Cerebrovascular Accident	×	×			×			×	×	×	×
Cerebrovascular Accident Timing	×				×			×	×	×	×
Immunosuppressive Treatment	×		×	×	×	×	×	×	×	×	×
Infectious Endocarditis Type		×									
Last Preop Creatinine Level		×	×								
Smoker				×	×	×	×	×	×	×	×
Current Smoker				×	×	×	×	×	×	×	×
E. Previous Interventions											
Prior Cardiac Operations	×	×	×	×	×		×	×	×	×	×
Prior PTCA/Ather Timing	×			×			×	×	×	×	×
F. Cardiac Status											
Congestive Heart Failure				×			×		×	×	
Myocardial Infarction	×	×	×	×		×	×	×	×	×	×
Myocardial Infarction Timing	×	×	×	×		×	×	×	×	×	×
Cardiogenic Shock	×	×	×	×	×		×	×	×	×	×
Resuscitation	×			×	×		×	×	×		×
NYHA Classification	×	×	×	×	×	×	×	×	×	×	×

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	CAB	Valve	Valve+ CAB	Reop	Stroke	Deep Sternal Infx	Renal Failure	Prolonged Vent		Short Stay	Long Stay
G. Medications											
Inotropic Agents		✕	✕								
H. Hemodynamics and Cath											
Ejection Fraction	✕		✕	✕	✕		✕	✕	✕	✕	✕
Number of Diseased Vessels	✕		✕	✕	✕	✕	✕	✕	✕	✕	✕
Left Main Disease	✕			✕	✕		✕	✕	✕	✕	✕
Pulmonary Artery Mean Pressure		✕	✕								
Aortic Valve Stenosis	✕			✕	✕		✕	✕	✕	✕	✕
Mitral Valve Insufficiency	✕			✕	✕	✕	✕	✕	✕	✕	✕
J. Operative											
Procedure Status	✕	✕	✕	✕	✕		✕	✕	✕	✕	✕
P. CPB and Support											
Intra-Aortic Balloon Pump Timing	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕	✕