

**Table: Variables Involved in STS Risk Modeling\***

Database Section / Version 2.52.1 Variable (Seq. No.)	Operative Mortality Models			CAB Morbidity Models					Combined Outcomes (Mortality/Morbidity)	CAB Length of Stay Models		
	CAB	Valve	CAB + Valve	Stroke	Renal Failure	Deep Sternal Infx	Reop	Prolonged Ventilation		LOS<6	LOS>14	
<b>B. Demographics</b>												
Patient Age (140)	×	×	×	×	×	×	×	×	×	×	×	×
Gender (150)	×	×	×	×	×	×	×	×	×	×	×	×
Race (190)				×	×	×	×	×	×	×	×	×
<b>D. Risk Factors</b>												
Height (360)	×	×	×	×	×	×	×	×	×			×
Weight (350)		×	×	×	×	×	×	×	×			×
Diabetes (400)	×	×	×	×	×	×	×	×	×	×	×	×
Diabetes Control (410)	×			×	×	×	×	×	×	×	×	×
Renal Failure (440)		×	×	×	×	×	×	×	×	×	×	×
Dialysis-Dependent Renal Failure (450)	×	×	×	×		×	×	×	×	×	×	×
Last Preop Creatinine Level (430)	×	×	×									
Dyslipidemia (420)	×							×	×	×	×	×
Hypertension (460)		×		×	×	×	×	×	×	×	×	×
Chronic Lung Disease (510)	×	×	×		×	×	×	×	×	×	×	×
Peripheral Vascular Disease (530)	×	×	×	×	×	×	×	×	×	×	×	×
Cerebrovascular Disease (540)	×			×	×	×	×	×	×	×	×	×
Cerebrovascular Accident (470)	×	×		×	×	×	×	×	×	×	×	×
Cerebrovascular Accident Timing (480)				×					×	×	×	×
Immunosuppressive Treatment (520)	×		×	×	×	×	×	×	×	×	×	×
Infectious Endocarditis Type (500)		×										
Smoker (370)				×	×	×	×	×	×	×	×	×
Current Smoker (380)				×	×	×	×	×	×	×	×	×
<b>E. Previous Interventions</b>												
Incidence <sup>†</sup> (560)	×	×	×	×	×		×	×	×	×	×	×
Previous CAB (600)		×	×									
Previous Valve (610)		×	×									
Previous PCI Interval <sup>‡</sup> (670)	×				×		×	×	×	×	×	×
<b>F. Preoperative Cardiac Status</b>												
Myocardial Infarction (750)	×			×	×	×	×	×	×	×	×	×
Myocardial Infarction Timing (760)	×	×	×	×	×	×	×	×	×	×	×	×
Congestive Heart Failure (770)					×		×		×	×	×	

Database Section / Version 2.52.1 Variable (Seq. No.)	Operative Mortality Models			CAB Morbidity Models					Combined Outcomes (Mortality/Morbidity)	CAB Length of Stay Models	
	CAB	Valve	CAB + Valve	Stroke	Renal Failure	Deep Sternal Infx	Reop	Prolonged Ventilation		LOS<6	LOS>14
Cardiogenic Shock (810)	×	×	×	×	×		×	×	×	×	×
Resuscitation (830)	×			×	×		×	×	×	×	×
NYHA Classification (870)	×	×	×	×	×	×	×	×	×	×	×
<b>G. Preoperative Medications</b>											
Inotropic Agents (970)		×	×								
<b>H. Hemodynamics and Cath</b>											
Ejection Fraction (1080)	×		×	×	×		×	×	×	×	×
Number of Diseased Vessels (1050)	×		×	×	×	×	×	×	×	×	×
Left Main Disease (1060)	×			×	×		×	×	×	×	×
Pulmonary Artery Mean Pressure (1110)		×	×								
Aortic Valve Stenosis (1120)				×	×		×	×	×	×	×
Mitral Valve Insufficiency (1180)	×			×	×	×	×	×	×	×	×
<b>I. Operative</b>											
Procedure Status (1240)	×	×	×	×	×		×	×	×	×	×
Intra-Aortic Balloon Pump Timing (1440)	×	×	×	×	×	×	×	×	×	×	×
<b>K. Valve Surgery</b>											
Mitral Valve Surgery (1640)		×	×								

\*Updated as of May 2004

†Maps to the following variables in 2.41 data version; number of prior cardiac operations requiring cardiopulmonary bypass (Seq. No. 740), and number of prior cardiac operations without cardiopulmonary bypass (Seq. No. 750).

‡Maps to the following variables in 2.41 data version; PTCA/Ather (PrPTCA - Seq. No. 1160), and PTCA/Ather Intvl-(PTCA-Surg – Seq. No. 1190).