

Appendix 1: Comparisons of data elements in the CIHI vs. STS risk prediction models for 30-day in-hospital mortality after isolated CABG, isolated AVR and combined CABG + AVR

	Isolated CABG		Isolated AVR		CABG+AVR	
	STS	CIHI	STS	CIHI	STS	CIHI
<i>Patient demographics</i>						
Age	+	+	+	+	+	+
Gender	+	+	+	+	+	+
<i>Medical history</i>						
Previous acute myocardial infarction						
<1 day before procedure	+				+	
1-21 days before procedure	+				+	
>21 days before procedure	+				+	
<365 days before procedure		+				+
Any previous cardiac operations						
Previous cardiac operations within 365 days		+		+		+
Number of previous cardiac operations						
	+					
Previous cerebrovascular accident						
	+		+		+	
<i>Cardiac and vascular morbidities</i>						
Acute coronary syndrome						
	+	+				+
Ejection fraction						
	+		+		+	
Functional status (NYHA class)						
	+		+		+	
Left main disease						
	+		+		+	
Number of disease coronary branches						
	+		+		+	
Aortic valve stenosis						
			+			
Cardiac dysrhythmias						
		+		+		+
Atrial fibrillation	+		+		+	
Cerebrovascular disease						
	+		+	+	+	

Appendix to Manlhiot C, Rao V, Rubin B, et al Comparison of cardiac surgery mortality reports using administrative and clinical data sources: a prospective cohort study. *CMAJ Open* 2018.

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Peripheral vascular disease	+	+				
Endocarditis			+	+		
Hypertension			+			
<i>Non-cardiac comorbidities</i>						
Body surface area	+		+		+	
	Isolated CABG		Isolated AVR		CABG + AVR	
	STS	CIHI	STS	CIHI	STS	CIHI
Acute renal failure	+	+	+	+	+	+
Charlson index						
Congestive heart failure	+	+	+	+	+	+
Dementia		+		+		+
Chronic pulmonary disease	+	+	+	+	+	+
Rheumatologic disease		+		+		+
Mild liver disease		+		+		+
Moderate or severe liver disease		+		+		+
Diabetes with organ failure	+	+	+	+	+	+
Hemiplegia or paraplegia		+		+		+
Renal disease	+	+	+	+	+	+
HIV infection		+		+		+
Primary cancer		+		+		+
Metastatic cancer		+		+		+
<i>Procedure</i>						
Elective vs. urgent/emergent admission	+	+	+	+	+	+
Salvage procedure (resuscitation/circulatory support)	+		+		+	
Cardiogenic shock	+	+	+	+	+	+
Intra-aortic balloon pump/inotropic support	+		+		+	
Multiple cardiac interventions in same episode	+	+			+	+

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