

**Appendix 3:** Definitions of death and major cardiovascular events using valid diagnostic and procedural codes

Condition	Database <sup>a</sup>	Codes	Validity
Death	RPDB, CIHI	Vital status field	Sens: 94% <sup>41</sup> , PPV: 100% <sup>41</sup>
Acute myocardial infarction	CIHI (ICD-9)	410	Sens: 89% <sup>36</sup> , PPV: 89% <sup>36</sup>
	CIHI (ICD-10)	I21	Sens: 89% <sup>42</sup> , PPV: 87% <sup>42</sup>
Coronary artery angioplasty or coronary artery bypass graft surgery	CIHI (CCI)	1IJ50, 1IJ76	Sens: 99–100% <sup>42</sup> PPV: 97–100% <sup>42</sup>
	CIHI (CCP)	48.02, 48.03, 48.09, 48.11–48.19	Sens: 99% <sup>37,44</sup> PPV: 100%
	OHIP-Fee	Z434, R742, R743	
Stroke nonsubarachnoid haemorrhagic or infarction	CIHI (ICD-9)	431, 432.9, 434-434.9, 436	Sens: 92%, PPV: 71% <sup>39</sup>
	CIHI-(ICD-10)	I61, I62, I63, I64	Sens: 75–81%, PPV: 69–87% <sup>42</sup>
Carotid endarterectomy	OHIP-Fee	N220, R792	
	CIHI-(CCI)	1KA76, 1KA80	Sens: 72-79%, PPV: 75-93% <sup>42</sup>
Abdominal aortic aneurysm repair and aortic bypass	CIHI-(CCP)	50.24, 50.34	
	OHIP-Fee	R802, R816, R817, R783, R784, R785, R814	
	CIHI-(CCI)	1KG76	Sens: 87% <sup>42</sup> , PPV: 88% <sup>42</sup>
Peripheral vascular bypass surgery	CIHI-(CCP)	51.25	
	OHIP-Fee	R780, R786, R787, R791, R794, R797- R799, R800, R803- R805, R807- R815	
	CIHI (ICD-9)	428.0-428.9	Sens: 77%, PPV: 88% <sup>38,43</sup>
Congestive Heart Failure	CIHI (ICD-10)	I50	Sens: 86%, PPV: 86% <sup>40</sup>

Note: Sens = sensitivity; PPV = positive predictive value.

<sup>a</sup> CCI=Canadian Classification of Health Interventions; CCP=Canadian Classification of Diagnostic, Therapeutic and Surgical Procedures; CIHI= Canadian Institute for Health Information; ICD=International Classification of Diseases; OHIP-Fee=Ontario Health Insurance Plan Fees; RPDB=Ontario Registered Persons Database