

Supplementary File 2

Table S2. Paramedic Impression Codes Mapped to Ambulatory Care Sensitive Conditions

ACSC variable	Ontario Codes			UK Codes			Final Codes for Use	
	Paramedic-supplied	Physician-supplied	Combined/Corroborated	Paramedic-supplied	Physician-supplied	Combined/Corroborated	Ontario	UK
Diabetes	83: Diabetic Emergency <u>Alternate:</u> 41: Stroke/TIA 43: Altered Level of Consciousness 48: Confusion/Disorientation 49: Unconscious 63: Nausea/Vomiting/Diarrhea 92: Weakness/Dizziness/Unwell	83: Diabetic Emergency 42: Temporary Loss of Consciousness 63: Nausea/Vomiting/ Diarrhea 92: Weakness/Dizziness/Unwell	83: Diabetic Emergency	Hyperglycaemia Hypoglycaemia Other Diabetic Problem	Hyperglycaemia Hypoglycaemia Other Diabetic Problem	Hyperglycaemia Hypoglycaemia Other Diabetic Problem	83: Diabetic Emergency	Hyperglycaemia Hypoglycaemia Other Diabetic Problem
COPD	21: Dyspnea <u>Alternate:</u> 24: Respiratory Arrest	21: Dyspnea 42: Temporary Loss of Consciousness 60: Non Ischemic Chest Pain 92: Weakness/Dizziness/Unwell	21: Dyspnea	COPD	COPD	COPD	21: Dyspnea	COPD
Asthma	21: Dyspnea <u>Alternate:</u> 24: Respiratory Arrest	21: Dyspnea 42: Temporary Loss of Consciousness 60: Non Ischemic Chest Pain 92: Weakness/	21: Dyspnea	Asthma	Asthma	Asthma	21: Dyspnea	Asthma

		Dizziness/Unwell						
Angina	51: Ischemic <u>Alternate:</u> 53: Palpitations 55: Post Arrest 56: Cardiogenic Shock 57: STEMI 61: Abdominal/ Pelvic/Perineal/ Rectal Pain	21: Dyspnea 51: Ischemic 92: Weakness/ Dizziness/Unwell	51: Ischemic	Cardiac Chest Pain	ECG Confirmed ST Segment Elevated MI Cardiac Problem Cardiac Chest Pain	ECG Confirmed ST Segment Elevated MI Cardiac Problem Cardiac Chest Pain	51: Ischemic 57: STEMI	ECG Confirmed ST Segment Elevated MI Cardiac Problem Cardiac Chest Pain
Grand Mal and other epileptic convulsions	46: Active Seizure <u>Alternate:</u> 42: Temporary Loss of Consciousness 43: Altered Level of Consciousness 48: Confusion /Disorientation 49: Unconscious 50: Post-ictal	46: Active Seizure 50: Post-ictal 42: Temporary Loss of Consciousness 44: Headache 45: Behaviour/ Psychiatric 48: Confusion/ Disorientation 89: Lift Assist 92: Weakness/ Dizziness/Unwell	46: Active Seizure 50: Post-ictal	Convulsion Epilepsy	Convulsion Epilepsy	Convulsion Epilepsy	46: Active Seizure 50: Post-ictal	Convulsion Epilepsy
HF and Pulm Edema	54: Pulmonary Edema <u>Alternate:</u> 24: Respiratory Arrest 51: Ischemic 55: Post Arrest 56: Cardiogenic Shock 57: STEMI	21: Dyspnea 54: Pulmonary Edema 60: Non Ischemic Chest Pain 92: Weakness/ Dizziness/ Unwell	54: Pulmonary Edema	Heart Failure	Heart Failure	Heart Failure	54: Pulmonary Edema	Heart Failure

Hypertension	99: Other Medical/Trauma <u>Alternate:</u> 41: Stroke/TIA 44: Headache 51: Ischemic 53: Palpitations 54: Pulmonary Edema 57: STEMI	44: Headache 92: Weakness/Dizziness/ Unwell 99: Other Medical/Trauma	No code available	None	None	No code available	No code available	No code available
Lower Respiratory	21: Dyspnea <u>Alternate:</u> 24: Respiratory Arrest	21: Dyspnea 33: Hypotension 42: Temporary Loss of Consciousness 60: Non Ischemic Chest Pain 92: Weakness/Dizziness/ Unwell	21: Dyspnea	Chest infection	Chest infection	Chest Infection	21: Dyspnea	Chest Infection
Mental Health - anxiety, depression, panic attack	45: Behaviour/ Psychiatric <u>Alternate:</u> 43: Altered Level of Consciousness 53: Palpitations	21: Dyspnea 45: Behaviour/ Psychiatric 42: Temporary Loss of Consciousness 44: Headache 48: Confusion/ Disorientation 60: Non Ischemic Chest Pain 63: Nausea/ Vomiting/ Diarrhea 92: Weakness/Dizziness/ Unwell	45: Behaviour/ Psychiatric	Attempted Suicide Intentional Drug Overdose Anxiety Psychosis Depression Panic / Anxiety Attack	Attempted Suicide Intentional Drug Overdose Anxiety Psychosis Depression Panic / Anxiety Attack	Attempted Suicide Intentional Drug Overdose Anxiety Psychosis Depression Panic / Anxiety Attack	45: Behaviour/ Psychiatric 81: Intentional drug overdose	Attempted Suicide Intentional Drug Overdose Anxiety Psychosis Depression Panic / Anxiety Attack

		89: Lift Assist 45.01 Excited Delirium						
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Notes: COPD = chronic obstructive pulmonary disease; ECG = electrocardiogram; MI = myocardial infarction; ST Elevation = elevation of the ST segment on an electrocardiogram; STEMI = ST elevation myocardial infarction; TIA = transient ischemic attack