

Supplementary File 1**Table S1. Clinical Impression Codes available to paramedics in Ontario, Canada and the United Kingdom**

Ontario Problem Codes	UK Clinical Impression Codes
Vital Signs Absent 1: Cardiac/Medical 2: Traumatic	Injury Trauma Gunshot Abdominal Injury
Airway 11: Obstruction (Partial/Complete)	Near Drowning Explosive / Blast Injury Stab Wound
Breathing 21: Dyspnea 24: Respiratory Arrest	Limb Injury Penetrating Trauma Head Injury
Circulation 31: Hemorrhage 33: Hypotension 34: Suspected sepsis	Neck Injury Smoke Inhalation Diving Incident Fall Non - Injury
Neurological 40: Traumatic Brain Injury 41: Stroke / TIA 42: Temporary Loss of Consciousness 43: Altered Level of Consciousness 44: Headache 45: Behaviour / Psychiatric 45.01: Excited Delirium 46: Active Seizure 47: Paralysis / Spinal Trauma 48: Confusion / Disorientation 49: Unconscious 50: Post-ictal	Chest Injury Thermal Injury Back Injury Carbon Monoxide Poisoning Drowning Electrocution Chemical Exposure Multi-System Trauma Cold Exposure CBRNE Incident Back Pain Non-Traumatic Unintentional Overdose Alleged Assault Soft Tissue Injury Suspected Neck of Femur
Cardiac 51: Ischemic 53: Palpitations 54: Pulmonary Edema 55: Post Arrest 56: Cardiogenic Shock 57: STEMI 58: Hyperkalemia	Gastrointestinal Acute Abdominal Problem Constipation Diarrhea & Vomiting Gastrointestinal Bleed Other Abdominal Problem
Non-Traumatic 60: Non Ischemic Chest Pain 61: Abdominal / Pelvic / Perineal / Rectal Pain 62: Back Pain	Urinary Urinary Problem Urinary Tract Infection Catheter Problem Allergic Allergic Reaction Bite / Sting Neurological/stroke Faint Collapse Unknown Cause Collapse ? Cause

<p>Gastrointestinal 63: Nausea/ Vomiting/ Diarrhea</p> <p>Musculoskeletal/Trauma 66: Musculoskeletal 67: Trauma / Injury</p> <p>Obstetrical/Gynecological 71: Obstetrical Emergency 72: Gynecological Emergency 73: Newborn / Neonatal</p> <p>Endocrine/Toxicological 81: Drug / Alcohol Overdose 81.1: Suspected Opioid Overdose 82: Poisoning / Toxic Exposure 83: Diabetic Emergency 84: Allergic Reaction 85: Anaphylaxis 86: Adrenal Crisis</p> <p>General and Minor 87: Novel Medications 88: Home Medical Technology 89: Lift Assist 90: Inter-facility Transfer 91: Environmental Emergency 92: Weakness / Dizziness / Unwell 93: Treatment / Diagnosis & Return 94: Convalescent / Invalid / Return Home 95: Infectious Disease 96: Organ Retrieval / Transfer 98: Organ Recipient 99: Other Medical / Trauma</p>	<p>Convulsion Other Neurological Problem Febrile Convulsion Confusion Chronic Neurological Problem Headache Meningitis Faint/Dizziness Obstetric or gynaecological Ectopic Pregnancy</p> <p>Other Gynae Problem Eclampsia Chronic Gynae Problem Other Obstetric Problem New Born Infant Delivery Complication Antepartum Haemorrhage Miscarriage Postpartum Haemorrhage Pre-eclampsia In Labour PV Bleed Baby Delivered</p> <p>Non-specific Other Medical Problem Unknown Problem Transport Only No Apparent Problem</p> <p>Cardiovascular Arrhythmia / Palpitations ECG Confirmed ST Segment Elevated MI Cardiac Problem Cardiac Arrest DVT Cardiac Chest Pain AAA ([ruptured] abdominal aorti aneurysm) Ischaemic Limb Heart Failure Suspected PE TIA Stroke Sickle Cell Crisis Chest Pain Non-Cardiac</p> <p>Respiratory COPD Other Respiratory Problem Chest Infection Choking Asthma Influenza</p> <p>Psychosocial</p>
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	<ul style="list-style-type: none">Attempted SuicideIntentional Drug OverdoseDOLS (Deprivation of Liberty Safeguards)AnxietyPsychosisEffects of AlcoholSocial ProblemUnder MHA SectionAccidental Overdose / PoisoningDepressionPanic / Anxiety AttackOther Mental Health ProblemDementiaQuery IntoxicatedENT/ophthalmologicalDental ProblemOther ENT ProblemEye ProblemEpistaxisInfectionsSepsisPyrexia Unknown OriginOther InfectionHyperthermiaPalliative care/frailtyPalliative Terminal CareOff Legs / Poor MobilityEndocrineHyperglycaemiaHypoglycaemiaOther Diabetic ProblemEndocrine Emergency
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