

Supplementary Figure 1 – Paramedic Services of the Southwest Region Base Hospital Program

Paramedic Services included in the study:

Middlesex-London Paramedic Service

Essex-Windsor EMS

The County of Lambton EMS

Medavie EMS Chatham-Kent

Perth County Paramedic Services

Grey County Paramedic Services

Medavie EMS Elgin Ontario

Bruce County Paramedic Services



Paramedic Services not included:

Huron County Paramedic Services

Oneida Nation Paramedic Services

Oxford County Paramedic Services

EMS, emergency medical services

Supplementary Table 1 – Final Primary Problem Code of Calls (N=9185)

Diabetic Emergency	67.5% (6196)
Other Medical/Trauma	5.1% (469)
Invalid Code	5.0% (461)
Weakness/Dizziness/Unwell	4.1% (374)
Interfacility Transfer	3.5% (324)
Altered Level of Consciousness	2.6% (235)
Missing Code	1.9% (175)
Active Seizure	1.3% (119)
Confusion/Disorientation	0.9% (80)
Drug/Alcohol Overdose	0.8% (78)
Unconscious	0.7% (62)
Dyspnea	0.7% (61)
Musculoskeletal	0.7% (60)
Stroke/Transient Ischemic Attack	0.6% (56)
Vital Signs Absent - Cardiac/Medical	0.6% (53)
Hypotension	0.6% (51)
Ischemic	0.5% (49)
Behaviour/Psychiatric	0.5% (44)
Nausea/Vomiting/Diarrhea	0.4% (40)
Gynecologic Emergency	0.4% (36)

Non-Traumatic Abdominal/Pelvic/Perineal/Rectal Pain	0.4% (34)
Headache	0.2% (22)
Temporary Loss of Consciousness	0.2% (19)
Treatment/Diagnosis & Return	0.2% (14)
Poisoning/Toxic Exposure	0.1% (12)
Palpitations	0.1% (10)
Back Pain	0.1% (9)
Environmental Emergency	0.1% (9)
Allergic Reaction	<0.1% (5)
Suspected Sepsis	<0.1% (5)
Hemorrhage	<0.1% (5)
Pulmonary Edema	<0.1% (4)
Obstetric Emergency	<0.1% (4)
Vital Signs Absent - Traumatic	<0.1% (2)
Convalescent/Invalid/Return Home	<0.1% (2)
Post-Arrest	<0.1% (1)
Cardiogenic Shock	<0.1% (1)
Anaphylaxis	<0.1% (1)
Infectious Disease	<0.1% (1)
Organ Recipient	<0.1% (1)
Newborn/Neonatal	<0.1% (1)

Data are presented as % (N).

Supplementary Table 2 – Calls with problem code 83 (diabetic emergency) with no paramedic treatment for hypoglycemia

	N=1692	
Initial CBG < 4.0 mmol/L	276 (16.3%)	hypoglycemic but not treated by paramedics
Initial CBG 4.0-14.9 mmol/L	885 (52.3%)	hyperglycemic OR hypoglycemic and treated by someone else (not treated by paramedics)
Initial CBG not documented	524 (31.0%)	
Initial CBG not available (error/no reading)	7 (0.4%)	

Data are presented as N (%)