



# AMBULANCE OPERATION S

---

## UNIT 1, PART 1: EMS Vehicles & Sub-Specialties

Marilyn Niffin BSc, ACP  
Professor, Georgian College  
© Copyright 2022

# Statistics

## Ontario

- ❖ Over 1 million square kilometers
- ❖ 12.4 million residence
- ❖ 440 municipalities
- ❖ 19 CACCs

Central Ambulance  
Control Centres

## Paramedics

- ❖ 8,000 – 10,000

## Number of calls annually

- ❖ Over 1.9 million requests/year (includes standbys)
- ❖ 900,000 transported patients

# Statistics

## Ontario

### Ambulance Operators

- ❖ 53 certified land ambulance operators
  - Municipal
  - Private
  - Hospital
  - First Nation
  - Volunteer
  - serving over 440 individual municipalities and First Nations communities



# **VEHICLES USED IN EMS**

# Vehicle Types in EMS



Type I: conventional truck with cab

# Vehicle Types in EMS



Type II: standard van

# Vehicle Types in EMS

Further north is 2  
stretcher style,  
since each  
ambulance may  
have more patients



Type III: Specialty Van

# Vehicle Types in EMS



Multi-Patient Unit

# Vehicle Types in EMS



Ambulance Bus

# Vehicle Types in EMS



Ambulance Bus

# Vehicle Types in EMS



Van: 1<sup>st</sup> Response Unit

# Vehicle Types in EMS



1<sup>st</sup> Response Unit

# Vehicle Types in EMS



Car: 1<sup>st</sup> Response Unit

# Vehicle Types in EMS



Car: 1<sup>st</sup> Response Unit

# Vehicle Types in EMS



Motorcycle: 1<sup>st</sup> Response Unit

# Vehicle Types in EMS



Bike: 1<sup>st</sup> Response Unit

# Vehicle Types in EMS



Cart: 1<sup>st</sup> Response Unit  
e.g large scale events, airport EMS

# Vehicle Types in EMS



Cart: 1<sup>st</sup> Response Unit  
e.g large scale events, airport EMS

# Vehicle Types in EMS



Emergency Support Unit  
e.g Disasters, MCI

A faded, high-angle photograph of a white paramedic ambulance. The words "PARAMEDIC" and "EMERGENCY" are visible in large, light blue letters on the side of the vehicle. The ambulance's emergency lights are illuminated, showing red and yellow flashes. The overall image has a soft, hazy quality.

# **Paramedic Sub-Specialties**

# TACTICAL PARAMEDICS



# MARINE PARAMEDICS



# FIRST RESPONSE PARAMEDICS



# BIKE PARAMEDICS



# Community Paramedics



# Heavy Urban Search & Rescue





Ontario

# EMAT

Emergency Medical Assistance Team

**56 bed unit  
provides a staging and triage base  
capability of treating 20 acute care patients  
and 36 intermediate care patients**



# Flight Paramedics – Rotary Wing



Critical Care - long distance transport

# Scene response





Fixed Wing

Critical Care - long distance transport



**Questions???**