

A11: Care in High Threat Environments

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SAFETY MESSAGE

No BCEHS paramedic is to intentionally enter a known Hot Zone at any time. If a paramedic finds him or herself within the Hot Zone, they are to immediately find cover and safety, and withdraw to the cold zone as soon as it is safe to do so.

Introduction

A high threat incident is any that involves the potential or actual risk of physical harm to responders as a result of dangers inherent at the scene. This can include the use of firearms or edged weapons, fire, rising floodwaters or unstable structures to name a few.

While paramedics should not knowingly place themselves in areas of high threat, recent events such as the 2014 Ottawa Parliament Hill shooting, 2015 Paris terror attacks and 2017 London attacks have shown that first responders may inadvertently find themselves in such a situation. This guideline therefore sets out considerations for safety and clinical care in high threat incidents.

Types of threats

Threats generally come in two forms, man-made and naturally occurring:

Man-made threats: the active armed offender

The term 'active shooter' makes a direct reference to the use of a firearm or firearms, but an incident may also involve any weapon type such as bladed weapons, explosive devices and any improvised object capable of inflicting serious injury or death, including vehicle borne intrusions, and this is why the term Active Armed Offender (AAO) has been adopted.

These attacks are aimed at people rather than infrastructure and against relatively soft targets and they can occur with little or no planning, or intelligence forewarning.

While the term 'extremist' is very topical at this time, particularly in the media, it's important to realize not all AAO incidents are motivated by extremism or perpetrated by religious or ideologically-focused individuals. An AAO incident can also include an individual with a serious fixation and/or a serious mental health issue or it could be motivated by hatred, revenge or criminal intent.

Hybrid targeted violence incident (HTVO)

Intentional use of force to cause physical injury or death to a specifically identified population using multifaceted conventional weapons and tactics.

This may involve a criminal act such as the 2017 Bourke Street Mall incident; through to a terrorist incident such as the complex, coordinated 2015 Paris attacks.

Naturally occurring threats

This could include wildfires where the fire is imminently approaching or has trapped the paramedic, rising flood waters or floods, avalanche or landslides, earthquakes and/or tsunamis.

What is the current terrorism threat profile in Canada?

Canada's National Terrorism Threat Level remains **MEDIUM**, meaning that a violent act of terrorism could occur, and has been at this level since October 2014.

The ever-changing nature of the threat environment means that Canada must remain continually vigilant.

Canada's National Terrorism Threat Level is a tool that government officials, including law enforcement agencies,

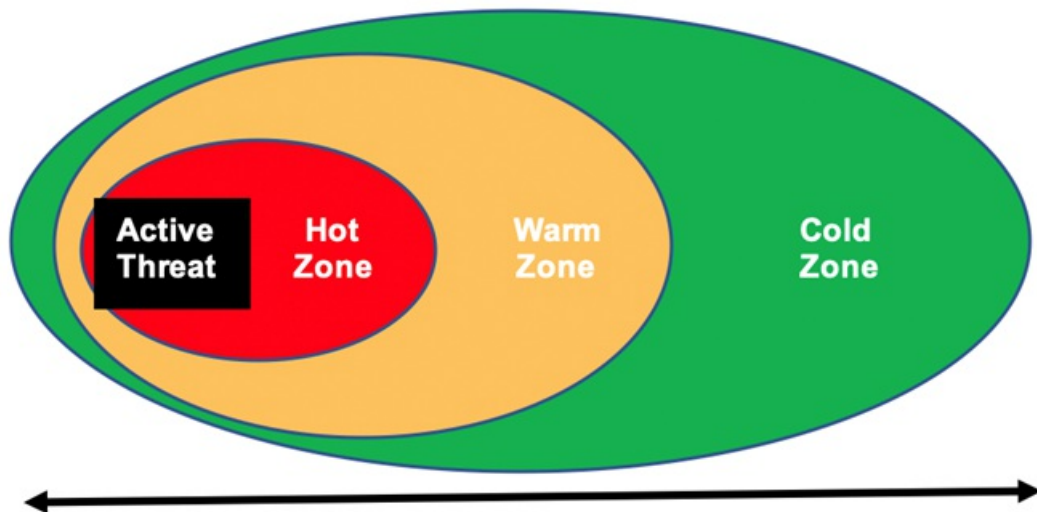
may use to identify risks and vulnerabilities from threats, and in turn determine what responses may be needed across government to prevent or mitigate a violent act of terrorism in Canada.

What is Tactical Emergency Casualty Care?

Tactical Emergency Casualty Care (TECC) is a set of best practice treatment guidelines for trauma care in the high threat prehospital environment. These guidelines are built upon critical medical lessons learned by military forces over the past 15 years of conflict. They are appropriately modified to address the specific needs of civilian populations (i.e. anticoagulated patients, and extremes of age) as well as injury patterns typically seen in civilian incidents and adapt these principles to civilian paramedic practice.

At the core of TECC are three distinct zones of care:

- **Hot Zone (Active Threat)** – a dynamic area of operations where there is an active threat of harm (safety risk to patients, bystanders and emergency response personnel).
- **Warm Zone (Indirect Threat)** – a dynamic area of operations where a potential threat exists, however the threat is no longer considered direct or immediate.
- **Cold Zone (No Threat/ Area Secure)** – an area of operations where there is no threat present and the scene is considered to be an area of absolute safety.



Direction of Threat

It is important to remember that the direction of the threat is dynamic and can change at any time. This is especially relevant in wildfire and terrorism related incidents.

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Clinical Management of patients based on threat level.

The clinical management of patients and role of all paramedics is strictly dependant on zones of care. TECC focuses on the medicine during these phases of care and provides guidelines for managing trauma in the civilian tactical or hazardous environment.

Direct Threat Care/ Hot Zone Care

- Find cover or safety
- Rapidly apply hemorrhage control with direct pressure or tourniquet.
- Beyond *consideration* of tourniquet application and unconscious patients being rolled into the recovery position, no further clinical care should be undertaken when the threat is still present.

**Indirect Threat Care/ Warm Zone Care**

- Maintain awareness of potential threat at all times.
- Conduct primary survey (C-A-B), with an emphasis on:
 - C – Control external catastrophic hemorrhage with arterial tourniquet or direct pressure.
 - A – consider basic positioning to maintain patent airway, consider OPA/NPA
 - B – ALS/ CCP ONLY - consider bilateral chest decompression or chest seal
- Establish Casualty Collection Point if required.

**Evacuation/ Cold Zone Care**

- Consider other clinical interventions as required
- Consider management for hyperthermia
- Manage as per relevant authorized treatment guideline relevant to patient condition



Transport to hospital. Pre-notify as appropriate.

