

Strategic Aeromedical Evacuation in the Canadian Armed Forces - Indications and Outcomes

Lieutenant Colonel Aaron Minkley
Head – Medical Standards and Policy
Canadian Forces Health Services
21 March 2019



Outline

- Numbers
- Airframes
- Indications
- Outcomes

- The Canadian Forces (CF) are required to provide Aeromedical Evacuation (AE) support to military operations nationally and internationally.
- In response to multiple and diverse operations, CFHS trains Aeromedical Evacuation Crew Members for a variety of airframes.



- 35/50 past 5 years
- 4/7 critical care
- Canada has 4 (3 AE capable)



- 6/50 past 5 years
- 2/7 critical care



Canadian Forces Health Services Grou



1/50 past 5 years 1/7 critical care

- 3/50 past 5 years
- 0/7 critical care

CC-130J HERCULES - 2010

Canadia Health Sen



CC-177 GLOBEMASTER III - 2007

2/50 past 5 years

• 0/7 critical care



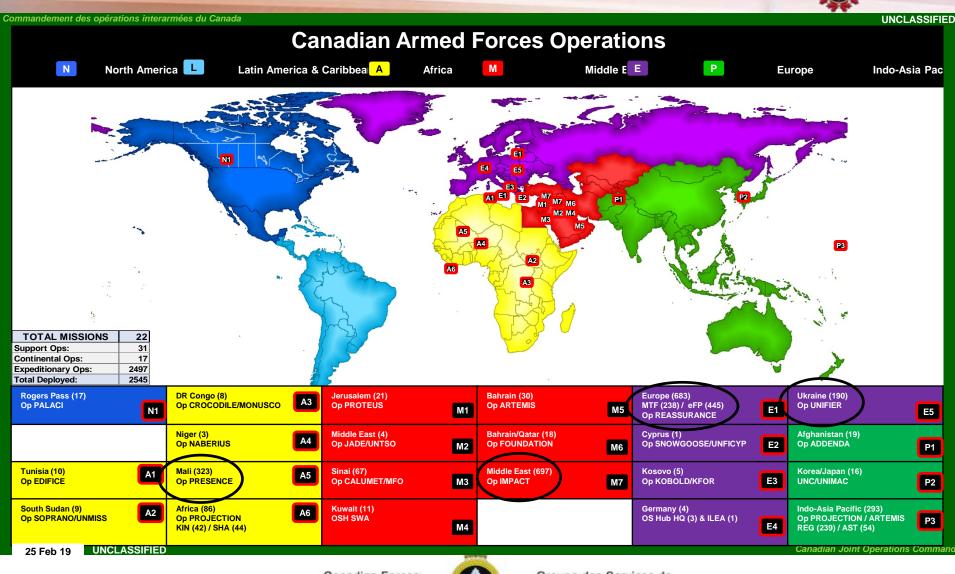
Canadian Forces Health Services Gr

Civilian Contracts Both Domestic and International



- 3/50 past 5 years
- 0/7 critical care



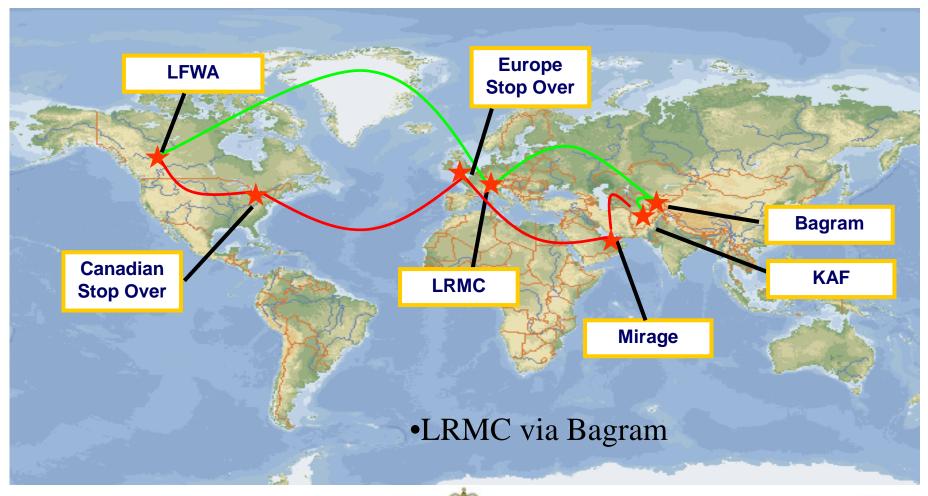


Canadian Forces Health Services Group



Groupe des Services de santé des Forces Canadiennes

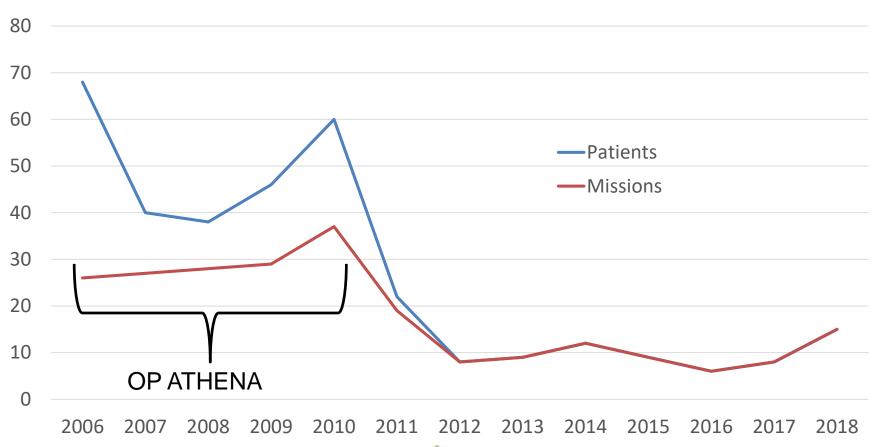
We often pair with Allies to accomplish the mission





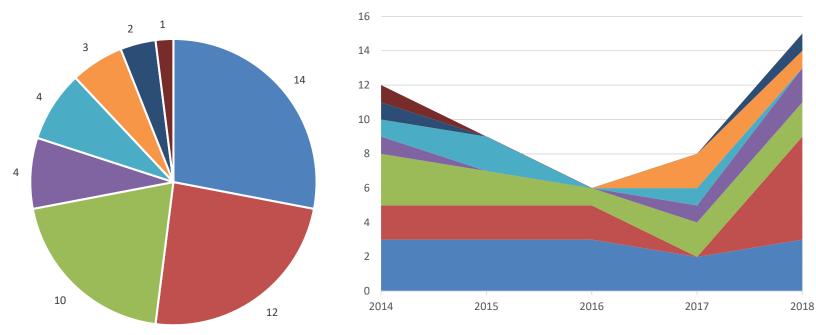
Different Deployments / Different Challenges





Indications

by Year



- Trauma (Service) Medical
- Infection ■ Trauma (non-service)
- Psych Cancer
- Unknown ■ Gyne



Further Information - Medical

- Medical
 - 7 Cardiovascular
 - Myocarditis
 - STEMI
 - 2 Spont pneumothorax
 - 2 Intra-cranial hemorrhage (subdural)
 - 1 LOC (Malarone)
- Infectious
 - 3 Strategic
 - Sepsis Middle East
 - Hemoptysis, Nec Fasc
 - 1 Domestic for Meningitis

- Cancer
 - 2 Strategic (Brain);
 - 1 Domestic for palliative
- Mental Health
 - 3 Domestic
 - 1 Strategic
- Gyne (ruptured ectopic)

Red font = critical care team

Further Information - Trauma

- Service (4)
 - 2 Firearm (1X CC from LRMC)
 - 2 Fractures
- Service Training (8)
 - 3 vehicle roll-over
 - 3 parachute (1X CC High Voltage Wire)
 - 2 Lower limb #
- Non-service (10)
 - 4 EtOH involved
 - 6 Fall from height (2 with EtOH) (1X CC fall 100ft)
 - 1 MVC
 - 1 Herniated disc

Red font = critical care team

Groupe des Services de



Outcomes

Category

- Pri 1: 2 (both domestic launched <24h)
- Pri 2: 21 (median launch 2d)
- Pri 3: 27 (median launch 8d)

Mission

- 16 Domestic (median launch 6d)
- 34 International (median launch 6d)

Adverse Events

- Sepsis (CC150) Sig hypotension (67/33 during take-off)
- Herniated Disc (CC144) neurogenic bladder during flight
- Ischemic Toe (CC 144) Anemia (6.7) BKA



Outcomes – Employment Status

- Long term Outcome
 - 12 Fit full duties
 - 7 Employment Limitations
 - 19 Medical Release
 - 12 too early / unknown
- Commander Confidence
- Annual Rates

– 2 MEDEVAC : 1000 Deployed

– 5 Medical Repatriation : 1000 Deployed

Partnerships

- Paired with USAF on 6 cases (all from Middle East)
 - 2X gunshot wounds
 - 3X medical
 - 1X psychosis
- Only problem was transferring through Qatar
- PN Role 1/2 in Mali (Recent German AE)
- Civilian Partners (3 missions)
 - Did not bring pRBC (hGB 7.0)
 - RT unable to travel into Africa

Questions

