

BC Mobile Medical Unit

A program overview

Presented by:

Peter Hennecke

Clinical Operations Director

Peter.hennecke@phsa.ca

(o) : 604-875-7384

(c) : 604-880-0869



BRITISH COLUMBIA'S

Mobile Medical Unit



What is the MMU?



What is the MMU?



AB



C



D



E



F



G

- A - Hospital trailer
- B - Support trailer
- C - Dually truck
- D - O₂ concentrator
- E - Inflatable tent (2)
- F - Ramp canopy
- G - Rigid tent



What is the MMU?



MMU team is comprised of Medical Directors, Nurses, Paramedic educators that have a breadth of expertise that include:

- Pre-hospital care
- Air medical transport
- Disaster medicine
- Hazmat
- Search & rescue
- Mass gathering medicine
- Trauma
- Surgery
- Perioperative care
- Emergency medicine
- Anesthesiology
- Intensive care
- Burns & plastics
- And more...

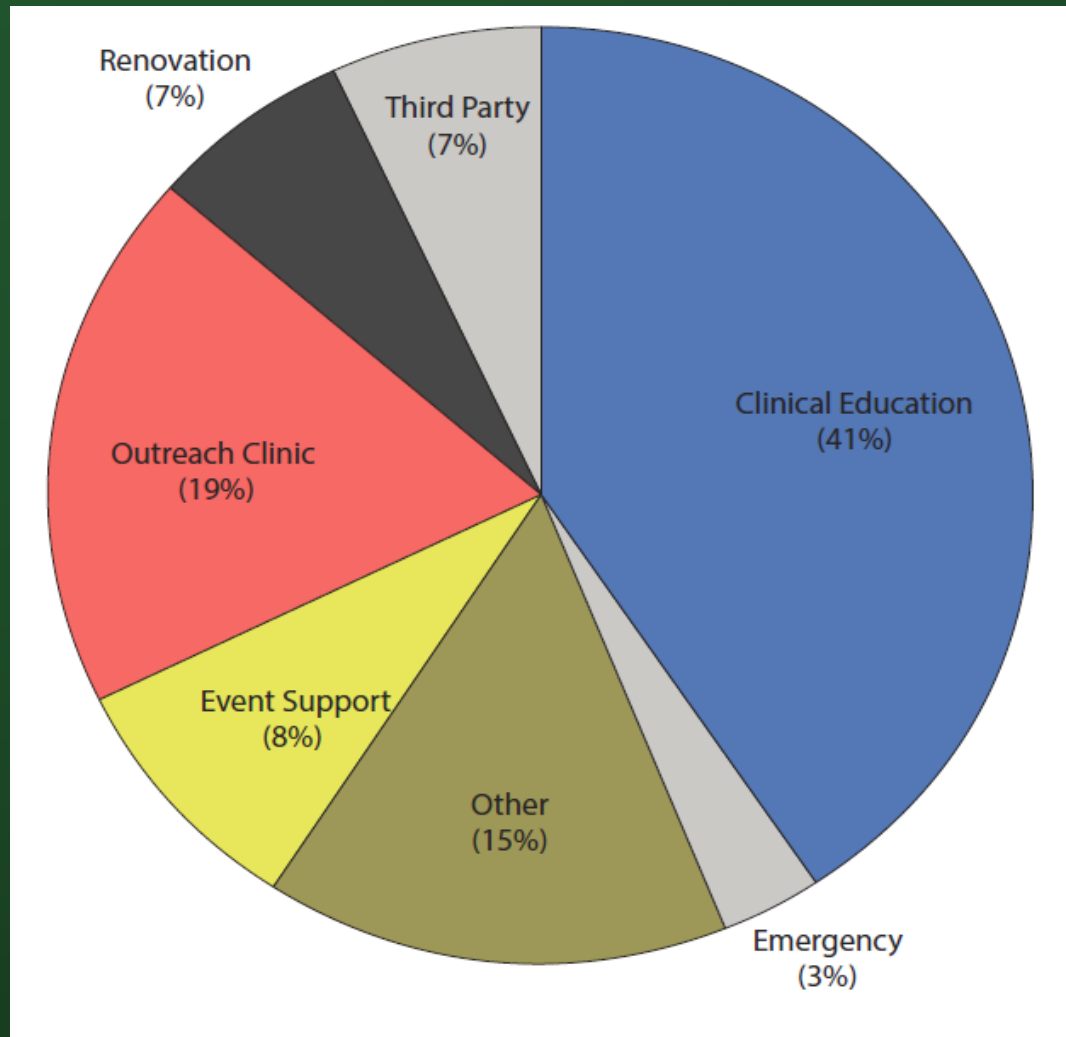


Since 2011...

- The MMU has been on the road for over **660 days**
- Visited over **53 sites** across all health authorities and private venues
- Provided care to over **6,270 patients** in BC
- Been a hands-on classroom to more than **1,190 clinicians & first responders**
- Over **300 hours** of education provided across the province
- Unique, one-of-a-kind hospital on wheels – only **one** in Canada



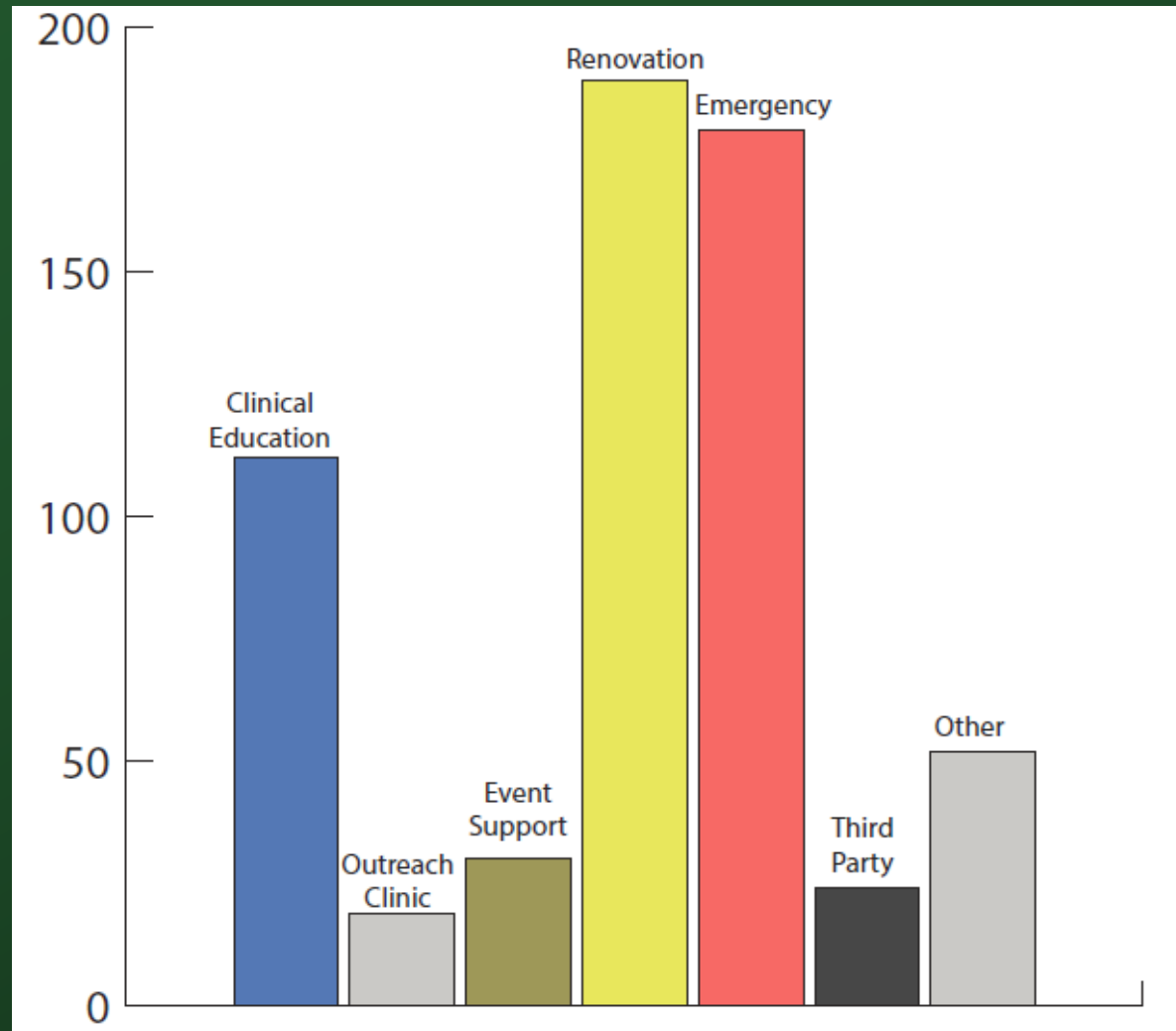
Deployments by type





Days on road, per type

N=661





Renovation Support

Kitimat General Hospital
(Northern Health)
Nov. 2013 – Feb. 2014

- Supported 14-week emergency department renovation
- More than 3,000 patients treated



Emergency Response



Surrey Memorial Hospital (Fraser Health)
November 2012

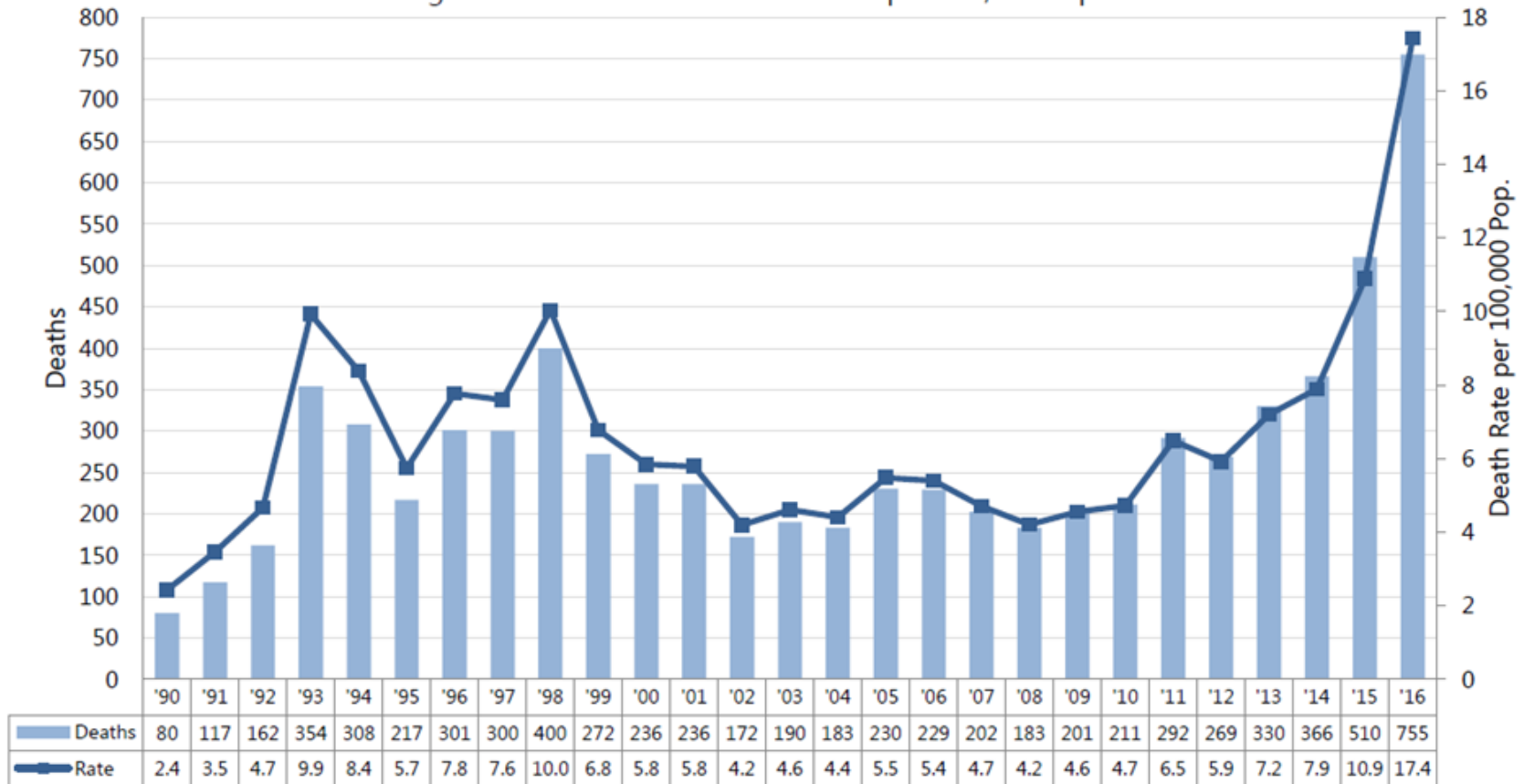
- Set-up @ JPOCS as active medical surge support
- From request to set up, the team was on-site in eight hours

Downtown Eastside



Downtown Eastside

Illicit Drug Overdose Deaths and Death Rate per 100,000 Population^[2,5]



Source: BC Coroners Service (<http://www2.gov.bc.ca/assets/gov/public-safety-and-emergency-services/death-investigation/statistical/illicit-drug.pdf>)



Downtown Eastside Goals (initial)

- 1. Mitigate congestion at St. Paul's Hospital Emergency Room**
- 2. Improve the clinical outcome of patients who sustained an opioid overdose**
- 3. Provide more integrated treatment service for overdose patients**
- 4. Help BCEHS transport appropriate patients to a hospital setting and get back onto the road sooner to help more patients**

BCEHS Transport

- Transport regulations to non-hospital site
- Inclusion Criteria
- Exclusion Criteria
- Secondary Transport



Downtown Eastside

58 West Hastings Street, December 2, 2016





Downtown Eastside 58 West Hastings Street, December 11, 2016



Downtown Eastside Complexities and challenges

“building from the ground up”

- MMU as a stand-alone unit
- Site preparation: City permits, fencing, security, washrooms, water source, electricity
- High media requests and coverage
- Unit clinically operational within **12 days** of activation
- Communication between health authorities, programs, vendors: **VCH, PHC, BCEHS, HEMBC, CDC, City of Vancouver, BC Hydro, Telus.....**





Downtown Eastside



Photo: Christopher Cheung, The Tyee, February 27, 2017



Downtown Eastside Complexities and challenges

Clinical staff & patient flow

- Inclusion & exclusion criteria
- Walk ins/Drop offs
- Staff recruitment and scheduling: Physicians, nurses, addiction specialists, outreach workers across VCH, PHC, and PHSA
- Orientation of a high rotation of clinical staff: webinar, just-in-time training
- Patient care delivery and secondary transports
- Clinical re-supply, housekeeping, parking, power, septic, oxygen, security, IMITS, leadership.....
- Mission Creep and Exit Strategy





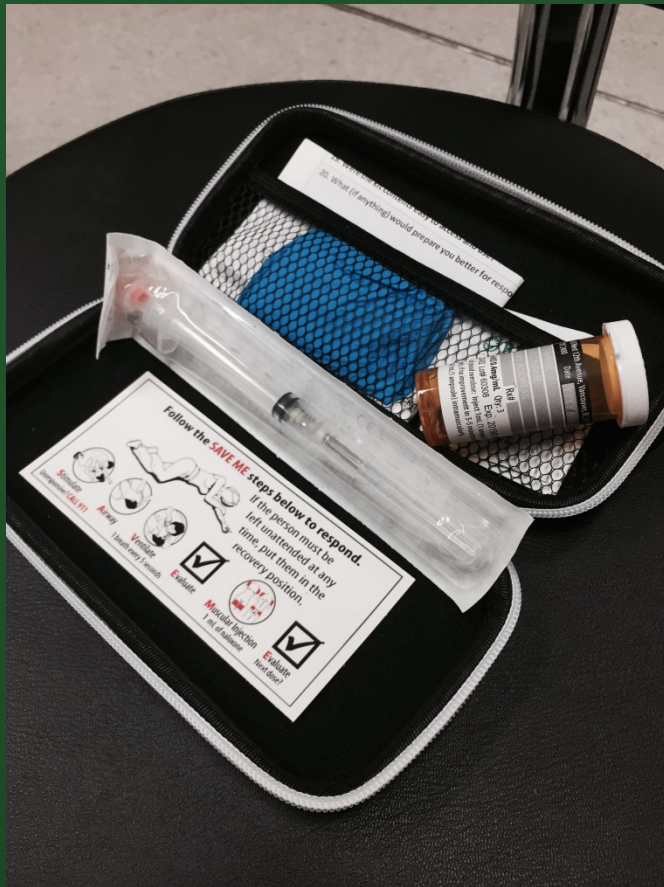
Downtown Eastside VCH Surveillance Statistics

December 13, 2016 – Apr 6th, 2017

**(Apr 6th-May 19th)*

- 163-day deployment – longest in the history of the MMU program
- A total of 3,064 patients visited the MMU - an average of 25 patients per day
 - 598 (20%) had overdose presentations
 - 574 (20%) presented with acuity level as emergent and urgent. For OD related visits, the proportion remained at 79%
 - **558 (19%) of visits arrived by EHS.** For OD related visits, the proportion remained at 89%

Downtown Eastside The experience.....



“This has definitely changed my perspective on addictions, patients, treatment, the importance of a non-judgmental attitude.”

- RN working in the MMU

“140 characters fail to describe the level of care that patients at the @MobileMedicalBC receive. Incredibly caring, positive vibe.”

- Andrea Woo via twitter, Globe & Mail reporter

Overdose Crisis Response

- Medical treatment for active overdoses
- Same day Suboxone/Methadone Starts
- Take Home Naloxone Kits Offered



MMU SERVICES HAVE MOVED...

FOR EMERGENCIES OR OVERDOSE CALL 911

MMU services have moved to other sites in the DTES. VCH doctors and nurses are no longer here.

Outreach workers are here from **Monday to Friday 9am-5pm**. They can help you connect to addictions care, medical and other services. Contact an outreach worker: **604-360-2874** or call the **Access Central Detox Referral Line: 1-866-658-1221**.

OTHER SITES

- Pender CHC** ●
59 West Pender Street • 8:30am-4:30pm Mon-Fri
- Overdose Prevention Society Trailer** ●
62 East Hastings • 10am-10pm 7 days a week
- Insite** ●
139 East Hastings • 9am-3am 7 days a week
24 hours a day on Wed/Thurs/Fri during cheque week

- Maple Hotel (alley)** ●
177 East Hastings • 7am-1pm 7 days a week

- VANDU** ●
380 East Hastings • 10am-10pm 7 days a week

- Powell Street Getaway** ●
528 Powell • 10am-8pm 7 days a week

- Downtown CHC** ●
569 Powell Street • 8:30am-5:00pm 7 days a week

- DTES Connections** ●
623 Powell Street (alley entrance) • 8:30am-4:30pm 7 days a week

NOT SHOWN ON MAP

- Rapid Access Addictions Clinic** ●
St. Paul's Hospital, 1081 Burrard Street, 2nd Floor Burrard Building, Room 2B-184 • 8:30am-4:30pm Mon-Fri

- Raven Song CHC** ●
2450 Ontario Street • 8:30am-4:30pm Mon-Fri



Downtown Eastside Lessons Learned.....

- Flexibility
- Early activation
- Complexity of support
- Collaboration of Acute and Community
- Communication
- Security
- Exit strategy



Questions?