# **Continuing Professional Training Program**

**Priority Goals:** 

Increased number of

interdisciplinary team

improve patient safety

implementation of SIM

students and the Family

Address the need for

skill acquisition and

maintenance

support.

Interprofessional &

training to reduce

medical errors &

in rural settings.

Development and

EM curriculum to

better baseline

residents, med

ultimately provide

education to UBC

Practice program.

# Afshin Khazei

#### **Situation:**

Inadequate competency of practicing EP's in core and advanced EM procedures. Platform needed for CQI & interprofessional team training to improve patient safety.

# Vision:

Increased patient safety and improved emergency team practice and skills through simulation and interprofessional team training.

# **Target Audience:**

EP's, Family Physicians, Intensive Care Physicians, Anesthetists, Trauma Physicians, Respirologists, Residents, International Medical Graduates

#### Stakeholders:

- Health Authorities
- Simulation Centres at VGH, LGH, SMH
- Rural CME
- Collaborative

- UBC CPD

#### Inputs

Rural EM Needs Assessment, BC 2014 -2015 conducted by UBC Rural CPD Program

2004 BC Rural ED Reference Group set of rual EP competencies

Interprofessional, interdisciplinary, team training engaging "real" team of EM care providers is proven to reduce medical errors

Support credentialing and privileging requirements

Participant on stakeholder committees for VCH Urgent Primary Care Center (UPCC)

Participant on VCH regional emergency services committee

Participant on Provincial COVID-19 Digital Solutions Committee

Pilot course assessments inform curriculum development

#### **Activities**

Development and delivery of SIM-based courses for practicing EP's to update skills & acquire new procedures: Course, faculty, course delivery development for SEMP. PEMP, UGEMP, STRUC, SIC, HETS courses

Developed novel SIM task trainers & hybrid pedagogical platforms

Developed high-fidelity SIM-based seminar teaching UBC Phase 4 Med students principles of resuscitation

## **Outputs**

SEMP outreach courses in all BC Health Authorities

Reach physicians in all BC health authorities in collab with UBC CPD; systematically evaluate courses and iteratively improve program

Co-development of Urban Trauma Team Leaders course (STRUC); needs assessment (collab w VCH Regional Trauma Coordinator); adapted" STRUC course for unique needs of rural ED's

Creation of weekly VGH In-situ Interprofessional Simulation Program. Crisis Resource Management (CRM) principles; evaluate the program and iteratively improve. Assist other ED's to replicate this program

Offer 4 ACLS courses/year for interprofessional and interdisciplinary teams at VGH, BCCH, and BCWH

Quarterly in-situ, interprofessional SIM program in the Hyperbaric Unit of VGH

Ongoing delivery of HETS course

Ongoing delivery of interprofessional in-situ SIM course for UPCC's; COVID-19-specific SIMs conducted to prepare teams

Support leaders at regional centres to develop and maintain independent SIM programs.

Delivery of SIC course to empower additional hospitals to initiate independent in-situ interprofessional team training (IITP)

Continue collab with UBC CPD, CESEI, regional simulation centers, Rural CME Collaborative to

enhance programs

Short Term (<1 yr)

Update website for pre-course learning modules for SEMP and **UGEMP** 

STRUC Course delivery for rotating sites in VCH, FHA, PHC interprofessional teams

Deliver and iteratively improve IITP within VGH Hyperbaric Unit (quarterly)

Deliver regular ACLS, SEMP, UGEMP, APLS, STRUC, HETS, SIC. (pending COVID-19 safety)

#### **Outcomes**

Long Term (2-3yrs)

Anticipated impact

Increase number of ED staff participants in team-based SIM in rural settings, in all health authorities

ED teams translated IITP model of training in other hospital wards

Develop SIM-based curriculum with focus on CRM and cognitive error reduction

Continued collaboration with other CPD programs across the province

Maintain RCPSC and CCFP accreditation of all CPD courses

Sustainable delivery system of SIM-based courses province-wide

Increased clinical confidence. Increased perception of support. Reduced feeling of isolation for rural health care providers

Decreased cost on the health care sytem

Continuous quality improvement via SIM and course feedback

Reduce incidents of medical errors via use of CRM principles

Reduce procedural complications with increased use of US quided EM procedures (UGEMP course)

Better patient outcomes

### **Significant Challenges:**

Engagement of some rural stakeholders

#### Course Key:

ACLS - Advanced Cardiovascular Life Support

APLS - Advanced Pediatric Life Support Course

**HETS - Hyperbaric Emergency Team SIM** 

PEMP - Pediatric Emergency Procedures

SEMP - Simulation-Assisted Emergency Medicine Procedures

SIC - Simulation Instructor Course

STRUC - Simulated Trauma Resuscitation Update Course UGEMP - Ultrasound-Guided Emergency Medicine Procedures

# **COVID-19 Pandemic Safety**

All in-person course delivery currently pending COVID-19 safety measures, per UBC and Simulation Centre regulations