## **Stroke and Transient Ischemic Attacks**

Priority Goals:

- Disseminating

stroke / TIA best

practices via EM

- Implementation of

support tool for ED

management of TIA

- Sustainability of BC

**EM Stroke Research** 

clinical decision

Network

Network

### **Devin Harris**

#### Situation:

Stroke is the leading cause of adult disability, 2nd leading cause of dementia, and 3rd leading cause of death. Implementation of best practices and research into clinical, health systems and population health solutions for stroke has the potential to reduce the burden on British Columbians.

#### Vision:

To improve care for stroke and transient ischemic attack (TIA) patients in the ED, and across the continuum of care, via research, education, exchange of knowledge, & advocacy.

#### Stakeholders:

- BC Ministry of Health
- BC AHSN
- Health Authorities
- Stroke Services BC (SSBC)
- PHSA
- BC Patient Safety & Quality Council (BCPSQC)
- Heart & Stroke Foundation of Canada / BC
- CAEP
- UBC
- UBC Okanagan
- Southern Medical Program Centre for Chronic Disease Prevention & Management (CCDPM)
- BCEHS (PHSA)

### Inputs

Partnership with Stroke Services BC, PHSA, and the BC Patient Safety and Quality Council

Operational grant funding support from BRAIN Canada (FRONTIER Trial) and Genome Canada/BC (SpecTRA Trial)

Leadership within Interior Health (Medical Affairs - Quality; Stroke Program)

Partnership with Heart and Stroke Foundation of Canada / BC

Engagement with patient and family partners

#### Activities

Provincial Stroke
Quality Improvement:
with SSBC, PHSA and
BCPSQC. Clinical and
evaluation leadership
for stroke improvement
across continuum of
care

Clinical Trial: Brain Canada Grant Pre-hospital neuroprotectant trial (FRONTIER)

Heart and Stroke
Foundation of Canada
Canadian Stroke
Best Practice
Recommendations:
Emergency Department
Evaluation and
Management of Patients
with TIA and Acute
Stroke

#### Outputs

Expansion of FRONTIER clinical trial and SpecTRA clinical trial to Kelowna

Stroke health literacy manuscript submission

Publication on polypharmacy interventions in patients with stroke, heart disease, and diabetes

Publication on benefits and risks of dual antiplatelet treatment for acute minor ischemic stroke or high risk transient ischemic attack

Publication on clinical decision support tool for effective CTA utilization in urgent brain imaging of suspected TIA/minor-stroke in the emergency department

Publication on new frontiers in stroke diagnosis and treatment

# Short Term (<1 yr)

Keep EM Network

best practice

documents

up-to-date

Continued

BCPSQC

Expansion of

enrollment

FRONTIER Clinical

trial and continued

leadership within

### Outcomes Long Term (2-3yrs)

implementation of

EM Network BP's

Improved

Reduced stroke incidence

**Anticipated Impact** 

survey; admindata using strokeregistryIncreasedthrombolysis rates

Implementation of clinical decision support tool for ED management of TIA – Kelowna, other ED's Increased access to endovascular stroke therapy

Reduced mortality and disability

Reduced health

care costs

Research program funding sustainability for BC Emergency Stroke Research Network

Increased provider satisfaction

Increased academic publications Increased patient engagement

Grant funding support for stroke and TIA research within the DEM

# Significant Challenges:

Equitable delivery of stroke and TIA prevention and treatment to rural, remote, and First Nations communities. Geography and distance barriers for acute stroke therapy (endovascular therapy).