# **ENDOVASCULAR THERAPY: SYSTEM VALUE & IMPACT**

Endovascular Therapy for stroke (EVT) is now the standard of care, led through the work of Alberta's Cardiovascular Health and Stroke Strategic Clinical Network<sup>TM</sup>



Together.

Cardiovascular Health & Stroke Strategic Clinical Network™

## Quick Facts:

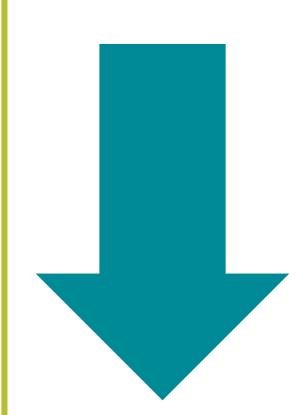
Two comprehensive stroke centres and 15 primary stroke centres in Alberta.

Cost avoidance for the health system as result of EVT:

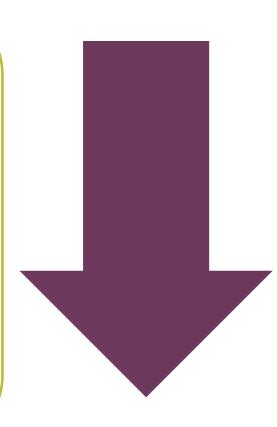
\$42,287 per patient/annually

Calculations based on 90 day home time measure (EVT Evaluation report 2017-2018, Q1 2018-2019)

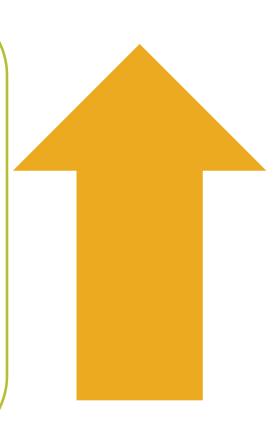
### Outcomes:



ESCAPE\* trial: 50% reduction in mortality



ESCAPE\* trial: 30% reduction in disability



57% increase in procedures since 2017

\*ESCAPE- Endovascular treatment for Small Core and Anterior circulation Proximal occlusion with Emphasis on minimizing CT to canalization times.

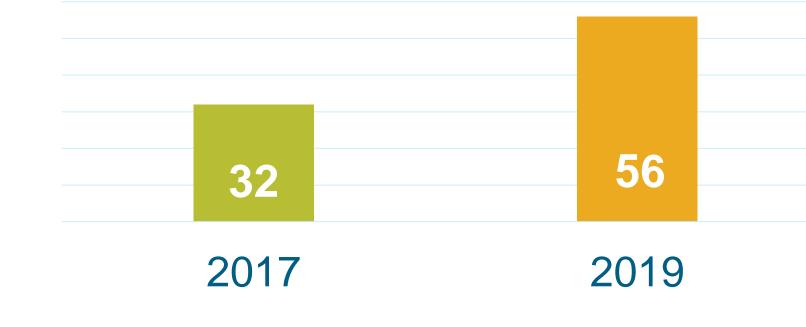
## 2017

**EVT procedures:** 187

#### Total projected # of procedures = 301:

\$3.2 million approved for increase in EVT procedures for University of Alberta Hospital, Foothills Medical Centre, and Diagnostic Imaging.

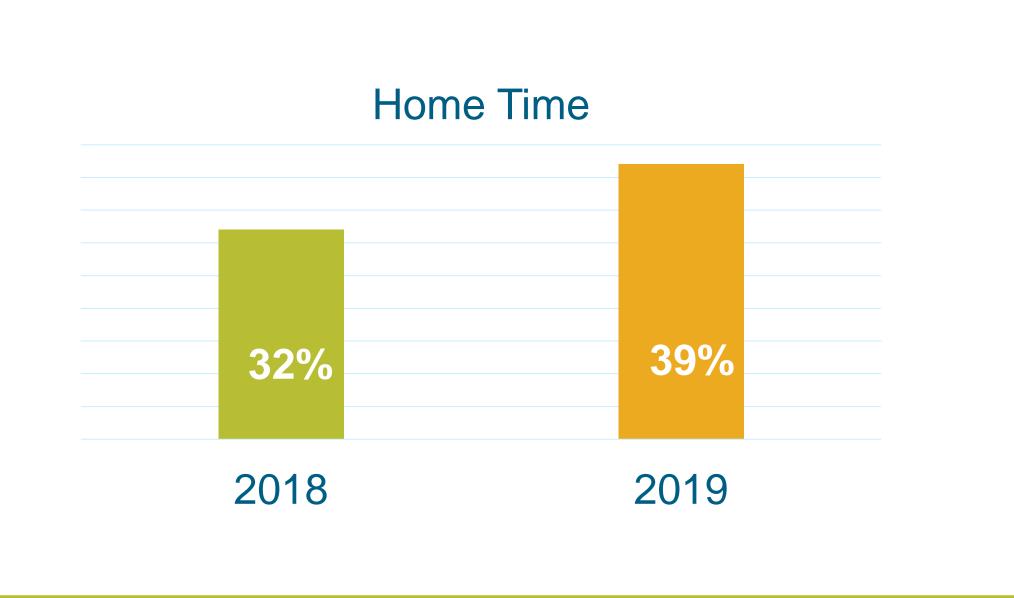
Rural zone volume increased: The Endovascular Reperfusion Alberta Initiative launched April to increase access across AB. Rural Zone Volume



## 2018

**EVT procedures: 246** 

Home time increased: EVT patients spend 70+ days at home in the 90-day period following admission without an increase in care.



1) Early

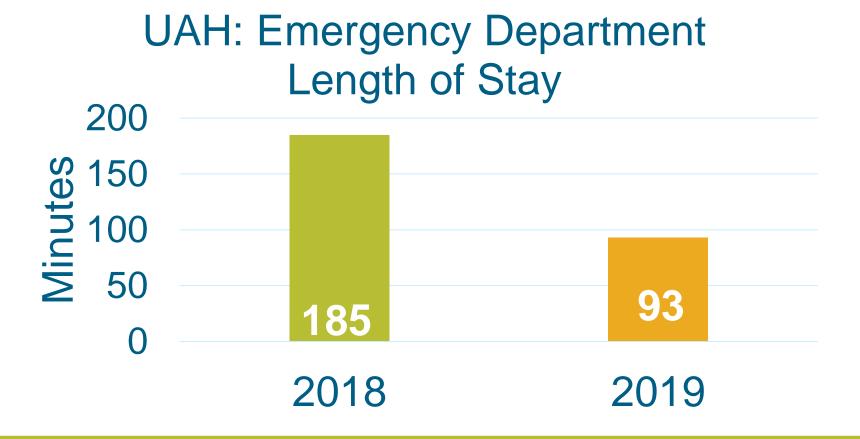
engagement

EVT procedures: 293

Expanded window feasibility assessment commissioned by Provincial EVT committee is completed.

**Emergency Department length of stay decreased:** 

Stroke resource nurse in ED improves patient flow.



## Time Window Expansion

New Evidence: Dawn\*, Defuse 3\*

Canadian Stroke Best Practice Recommendations:

2020: Forecasting model, understand operational

\*Defuse - Endovascular therapy following imaging evaluation for ischemic stroke.

Time window expansion



#### Feasibility assessment:

Themes from 64 consultations across all zones in AB.

impact and needs, ROI. \*Dawn -Clinical mismatch in the triage of wake-up and late presenting strokes undergoing neurointervention with Trevo.

5) Clear guidelines & protocols





4) Consistent & coordinated system approach

6) Training & education

7) Rehabilitation services

8) Welldeveloped repatriation process

