SEGUE-PS

Cardiovascular Health & Stroke Strategic Clinical Network™

Background

Patients suffering from acute ischemic stroke, especially individuals from rural and remote¹ parts of Alberta, are at great risk of negative outcomes due to far commute times to appropriate hospital sites where endovascular therapy (EVT) intervention is delivered.

The inability to effectively and rapidly diagnose ischemic stroke patients at first medical contact (FMC) causes inappropriate triage to hospital sites where EVT is not offered, leading to delays and potentially poor outcomes.

Project Summary

The Surface EEG Evaluation of Prehospital Stroke (SEGUE-PS) is a two-part clinical trial to test an innovative medical device in a real-world setting with Emergency Medical Services (EMS). We will demonstrate how the *Alphastroke* device integrates into and impacts the stroke care pathway.

The goal of this work is to improve the speed and accuracy of prehospital detection of acute ischemic stroke in order to optimize triage decisions, increase access to EVT, and improve health and system outcomes.

Partners

This project involves multidisciplinary collaborators, including researchers from the University of Calgary, the product innovator, Forest Devices, and many departments within Alberta Health Services, including: Emergency Medical Services; Stroke Program Operations and Emergency Department at Foothills Medical Centre; Diagnostic Imaging; Innovation, Evidence & Impact; the Cardiovascular Health and Stroke and Emergency Strategic Clinical Networks; and Provincial Patient Safety.

This project was made possible, in part, through funding from Alberta Innovates.

Timelines

Patient enrollment began in June 2021. The project is expected to be completed in 2023.

¹ The term 'remote' is defined as a travel distance greater than or equal to 30 minutes to a comprehensive stroke centre (the only hospital settings where EVT is offered).

