

Request Information

Permalink

Strokewatch: Noninvasive Stroke Detection Using Electroencephalography (EEG)

Tech ID: 32908 / UC Case 2022-166-0

CONTACT

Lindsay N. Sanford
Lindsay.Sanford@ucsf.edu
tel: .



OTHER INFORMATION

CATEGORIZED AS

- ▶ Medical
 - ▶ Devices
 - ▶ Diagnostics
 - ▶ Disease: Central Nervous System
 - ▶ Software

RELATED CASES

2022-166-0

TECHNOLOGY DESCRIPTION

The invention enables real-time bedside quantitative electroencephalography-based noninvasive stroke detection.

Current quantitative approaches to detect stroke require interpretation by trained experts: a limited resource in most hospital settings. Through application of a novel and highly sensitive EEG algorithm, electrical field attenuations can be used to visualize areas of cerebral ischemia in real-time to facilitate non-expert interpretation.

ADVANTAGES

- ▶ Enables real-time quantitative stroke detection by non-experts
- ▶ Facilitates early detection of stroke to support:
- ▶ Timely and efficient triage, resource allocation, and procedural intervention
- ▶ Reduction in neurological disability and patient mortality
- ▶ Decreased length of hospital stay and care escalation
- ▶ Compatible with existing EEG monitoring platforms and hardware, minimal data input requirement

APPLICATION

- ▶ Real-time stroke detection and monitoring
- ▶ Home-based stroke monitoring
- ▶ Pre-hospital deployment for stroke triage (e.g., in ambulance)
- ▶ Emergency Department triage and monitoring
- ▶ Intraoperative monitoring
- ▶ Critical care monitoring
- ▶ Real-time seizure detection and monitoring
- ▶ Real-time visualization of focal seizures
- ▶ Traumatic head injury
- ▶ Pre-hospital deployment for neurosurgical triage (e.g., in ambulance)
- ▶ In-hospital monitoring for injury expansion (e.g., hematoma or hemorrhage)

LOOKING FOR PARTNERS

To further develop and commercialize the technology.

STAGE OF DEVELOPMENT

Proof of concept. Pilot/early validation study conducted in pediatric population.

DATA AVAILABILITY

Under CDA.

PATENT STATUS

Patent Pending

ADDRESS

UCSF

Innovation Ventures

600 16th St, Genentech Hall, S-272,
San Francisco,CA 94158

CONTACT

Tel:

innovation@ucsf.edu

https://innovation.ucsf.edu

Fax:

CONNECT

 Follow  Connect

© 2022, The Regents of the University of
California
[Terms of use](#) [Privacy Notice](#)