

INNOVATION VENTURES

AVAILABLE TECHNOLOGIES

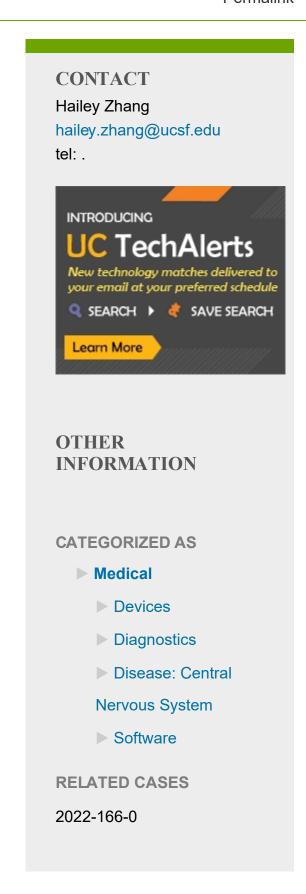
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Strokewatch: Noninvasive Stroke Detection Using Electroencephalography (EEG)

Tech ID: 32908 / UC Case 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

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CONNECT

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