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Strokewatch: Noninvasive Stroke Detection Using Electroencephalography (EEG)

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 - ▶ Disease: Central Nervous System
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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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