Noninvasive Real-Time Patient-Specific Assessment of Stroke Severity

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Title: Noninvasive Real-Time Patient-Specific Assessment of Stroke Severity

Invention:

The proposed technology is a sensor and software that incorporates patient-specific information and machine learning algorithms to produce a highly biofidelic predictor for tissue infarction after a stroke or transient ischemic attack.

Background:

Current technology for post stroke and transient ischemic attack is invasive and exposes patients to a high amount of radiation and lack accuracy. The proposed technology focuses on a system that produces an accurate assessment of a patient’s brain tissue post stroke. The system incorporates CTA images to provide real-time estimates stroke severity and cerebral blood flow.

Applications:

• Medical device in hospitals to assess patient’s stroke or transient ischemic attack severity

Contact

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Advantages:

- High-resolution
- Efficient
- Low cost
- Accurate
- Noninvasive
- Real-time cerebral blood flow

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