

Predicting Traumatic Brain Injury and Alerting Emergency Contacts

PROBLEM STATEMENT: Traumatic Brain Injury can be more effectively predicted through awareness of daily temperature patterns in comparison to post-head injury temperature patterns.

DESCRIPTION: This project is an app that proactively evaluates patterns in temperature and predicts the potential occurrence of Traumatic Brain Injuries (based on proven methodology) at the convenience of the User and alerts decision-makers such as parents and coaches to save lives and reduce the severity of brain injuries.

ADDITIONAL DETAILS

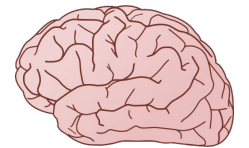
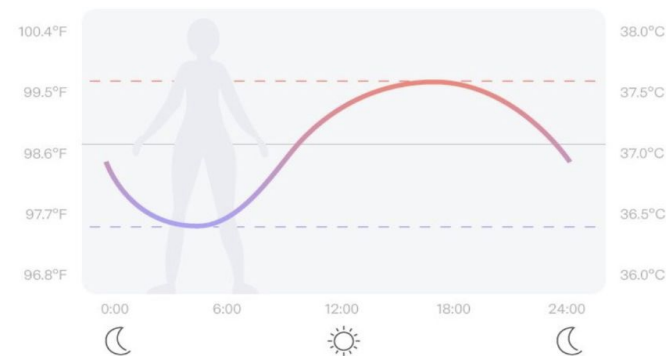
- Developed as an IOS App utilizing the HealthKit Repository to make efficient queries for Body Temperature data.
- Hosts an easy interface to create and emergency contacts for when evaluation criterion is met.
- A variance coefficient in Body Temperature below .5 indicates a possibility of a TBI.
- Lack of a daily TBR rhythm increased odds of death in intensive care by a factor of 21.

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WORKSHOP THEME(S): Early Proactive identification of Traumatic Brain Injury

KEYWORDS: TBI, Brain Injury, Concussion, TBIdentifier



**(Rzechorzek et al., 2022)*