



**Peter B. Pruitt, MD**

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**2018 Research Training Grant - \$300,000**

**“Improving Triage Precision in Patients with Subdural Hematoma”**

Subdural hematoma (SDH) is a condition, increasing in incidence because of the aging of the population, resulting in nearly 60,000 hospitalizations annually. Currently, there are no uniform clinical guidelines for the ED management and decisions for transfer to a higher level of care for SDH. Dr. Pruitt has successfully developed a decision tool, the SafeSDH Prediction Tool, which he derived and validated at a single, academic, Level I trauma center, to identify patients with SDH at low risk of clinical decline or neurosurgical intervention. However, this tool requires external validation before widespread dissemination and implementation. The proposed project will leverage innovative Natural Language Processing (NLP) techniques to refine the tool by transforming free text in CT scan reports from the electronic health record (EHR) into structured data that can be automatically incorporated into the tool.