

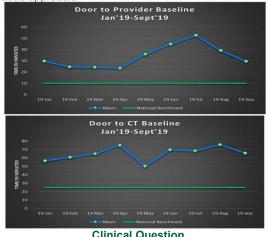
# HOW FAST CAN WE BE?: INTERDISCIPLINARY COLLABORATION ON IMPROVING STROKE METRICS USING DATA AND ANALYTIC-BASED METHODOLOGY

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#### **Background & Significance**

- The UVMHN-Champlain Valley Physicians Hospital Stroke Committee consistently aims to implement the newest evidence-based best practices into the care of stroke patients, in order to achieve the best outcomes for this population.
- Through evaluation of core stroke measures, door to provider and door to CT times were specifically targeted for further improvement.
- Decreasing these time-based metrics leads to shorter door to needle times for thrombolytic therapy administration, which in turn results in improved outcomes.
- The stroke team aimed to improve these two core stroke measures through design and implementation of a new stroke triage/assessment protocol with an interdisciplinary teambased approach.



## **Clinical Question**

Can an interdisciplinary team-based approach to stroke care in the Emergency Department improve door to provider and door to CT times to meet evidence-based best practice guidelines?

## Evidence

- A literature search was conducted to review the evidence related to a team-based, interdisciplinary approach to stroke protocol development and implementation as well as its impact on stroke metrics.
- The evidence suggested that standardized protocols utilizing an interdisciplinary team to evaluate, assess, and treat stroke patients can lead to significant improvements in time metrics including decreased door to provider and door to CT times.

### Intervention Implementation

- A team-based protocol (called a "FAST alert") was created to assess, triage, and manage suspected stroke patients.
- Input from a diverse interdisciplinary team of clinicians and staff was utilized during protocol development.
- Education about the new process was done throughout the organization in the two months before go-live.
- Stroke team members were present at monthly staff and provider meetings to provide data and updates as well as receive feedback about the protocol.
- FAST alert case reviews were also done to determine areas for revision and improvement.

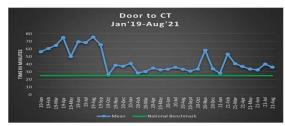




#### **Evaluation**

Chart abstraction, metric review and analysis, staff interviews, and post go-live survey were the methods of data gathering utilized.





#### Results

This is an ongoing project. Since implementation, there has been an increase in the percent of patients meeting a door to doctor time of less than 10 minutes. There has also been an increase in the percent of patients meeting a door to CT time of 25 minutes or less. There has also been a decrease in the average door to provider and door to CT times.

### Significance/Conclusion

Detailed tracking of metrics, feedback, and check ins with staff involved, and sharing of data, were all linked to subsequent improvement in reduction of door to provider and door to CT times. Establishing a routine feedback mechanism and visualizations of the goals in beneficial.

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