
 **The Clock is Ticking:
Innovative Stroke Care in a
Primary Stroke Center**

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Objectives

- Determine interventions that will improve the treatment times for patients with acute ischemic stroke
- Describe methods required to implement strategies to improve treatment times for patients with acute ischemic stroke
- Discuss innovative interventions to enhance continual improvement processes for patients with acute stroke symptoms



 **Bethesda North Hospital** 







Significance

Fifth Leading Cause of Death
Treatment Goals:
25 minute door to CT time
60 minute door to needle time

(CDC, 2015)





*rtPA must be administered within 3 hours of symptom onset.



Stroke Targets



- Primary Goal:** Achieve door-to-needle times within 60 minutes in 75 percent or more of acute ischemic stroke patients treated with IV rtPA.
- Secondary Goal:** Achieve door-to-needle times within 45 minutes in 50 percent or more of acute ischemic stroke patients treated with IV rtPA

(Target Stroke, 2010)



Quality Improvement

**2013: D2N median = 75 minutes ⊗
(27 strokes)**
D2CT median = 39 minutes ⊗



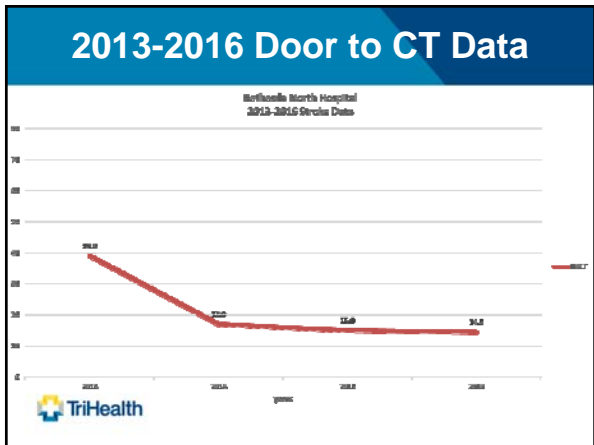
Quality Improvement

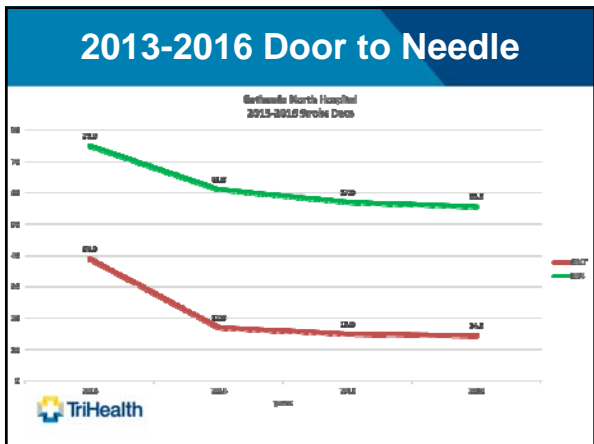
Team work:

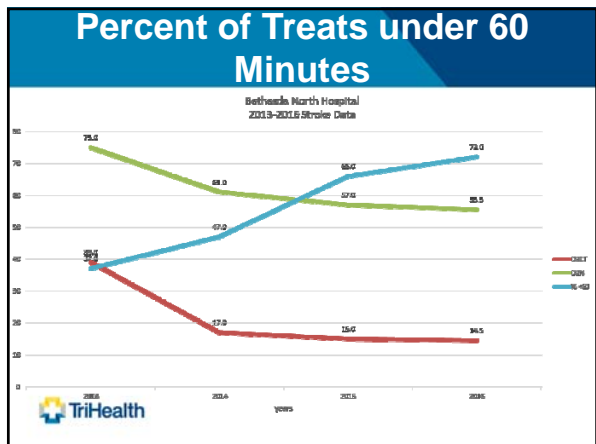


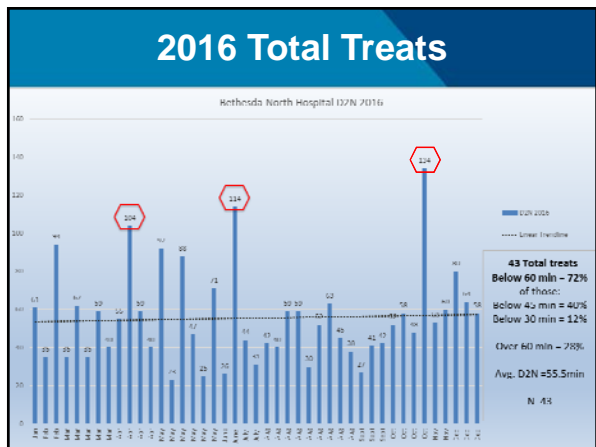
1. Action plan development
2. Process change
3. EMS education
4. Registration education
5. ED staff education
6. CT technologist education











Tele-Stroke Initiative

- April 2016-December 2016

| 2016 Tele-Stroke Calls for Bethesda North Hospital ED | |
|---|-----|
| Calls | 146 |
| Tele-Stroke iPad used | 40 |
| tPA administered | 33 |
| D2N | 52 |
| Endovascular intervention | 7 |

TriHealth


Goals for Future

Honor Roll

Stroke Honor Roll-
DTN time 60 minutes or ↓ 50% of the time

Stroke Honor Roll – Elite
DTN time 60 minutes or ↓ 75% of the time

Stroke Honor Roll- Elite Plus-
DTN time 60 minutes or ↓ 75% of the time
AND below 45 minute in 50% of treated strokes

 (Target Stroke Honor Roll, 2017)

Reference

Center for Disease Control. 2015. Stroke facts. Retrieved from <https://www.cdc.gov/stroke/facts.htm>

American Stroke Association. 2016. Together to end Stroke. Retrieved from http://www.strokeassociation.org/STROKEORG/Professionals/TargetStroke/About-Target-Stroke_UCM_432409_Article.jsp#.WG5WG2fru00

American Stroke Association. 2017. Target: stroke honor roll – recognition for success. Retrieved from <http://www.strokeassociation.org/STROKEORG/Professionals/TargetStroke/Target-Stroke>

