

# UPDATE Nov 24<sup>th</sup>, 2015

Since the 1<sup>st</sup> learning session we have implemented our new hyperacute stroke response

## **HYPERACUTE STROKE – TRIAGE ALGORITHM**

**(tPA candidates AND up to 6hr symptom onset)**

## **HYPERACUTE STROKE – TRAUMA ALGORITHM**

**(tPA candidates AND up to 6hr symptom onset)**

# HYPERACUTE STROKE – TRIAGE ALGORITHM

(tPA candidates AND up to 6hr symptom onset)

**GOAL**  
DTN time  
**30 min**

**NEUROLOGISTS – Cell contacts for HYPERACUTE STROKE ONLY**

Dr Bakker  
Dr Bestard  
Dr Heinrichs  
Dr Mortada  
Dr Oje

**EMS secure patch to triage:**  
Positive Stroke Symptoms  
Last seen normal @ \_\_\_\_\_  
PHN & Name/DOB  
ETA

**TRIAGE RN Notify:**  
Neurologist on Call @ **cell #**  
CT Tech @ **4781** or cell # **403 318 3306**  
Trauma Team to Trauma in \_\_\_ min

If Triage RN busy, contact **CN** to make calls

Await patient arrival to confirm ID  
ER Registration Clerk

PHN/Name/DOB to ER Registration

NO

YES

Pre-registration into Meditech by ER Registration Clerk

Stated Complaint:  
**Hyperacute Stroke**  
CTAS 1 or 2

**EMS PATIENT ARRIVES @ Triage**

**“WALK IN” PATIENT ARRIVES @ Triage**

**TRIAGE RN Confirms:**  
Positive Stroke Symptoms  
Last Seen Normal < 6h  
Pt ID - to ER Registration

**Facial Droop**  
**Arm Drift**  
**Speech**  
**Time Last Well**

**\*Consider sudden visual field loss, ataxia with severe dizziness**

**PATIENT meets hyperacute criteria?**

NO

YES

**STAND DOWN**  
Place pt in appropriate Triage Queue  
Notify Neurologist  
Notify CT  
Notify CN

Overhead page Trauma Team  
**Pt** to Trauma with EMS or FLOW TECH  
Notify **Neurologist** and **CT Tech** if not already aware  
Ensure chart is being processed

November 4th, 2015

# HYPERACUTE STROKE – TRAUMA ALGORITHM

(tPA candidates AND up to 6 hour symptom onset)

**GOAL**  
DTN time  
**30 min**

**HYPERACUTE STROKE PATIENT**  
Arrives to Trauma Room with EMS  
Pt stays on EMS stretcher  
Ensure chart is being processed

**HYPERACUTE STROKE PATIENT**  
Arrives to Trauma Room with Flow Tech  
Pt onto Trauma stretcher – obtain wt  
Ensure chart is being processed

EMS/Flow Tech relay quick hx  
to **TRAUMA TEAM, ED PHYSICIAN**  
&/or **NEUROLOGIST**

**Neurology &/or ED DR**  
**RAPID ASSESSMENT ONLY**  
Confirm Hyperacute criteria  
Order Suspected Stroke Protocol  
Call **Radiologist**  
Order **CT/CTA Head & Neck**  
- Sign req

**Trauma Nurses – Rapid Assessment Only**  
Ensure VS NVS and CBG done  
Ensure IV x 2 - at least one 18 G  
- CTA compatible cap – no extension  
- draw labs with start if able  
\*No need to undress pt  
\*Avoid indwelling catheter  
\*Direct **Lab** to collect **STAT** in **CT** if not done in Trauma

**Unit Secretary**  
Call **CT** to confirm pt arrival  
Enter Suspected Stroke  
Order set into Meditech  
Place Suspected Stroke and tPA protocols on chart  
Fax req or send with pt  
ECG & CXR after tx decision

**PATIENT**  
confirmed hyperacute?

NO

YES

**STAND DOWN**  
**Unit Secretary - Notify CT & CN**  
**Trauma Team** – Transfer pt to trauma stretcher and proceed with assessment and treatment

**PATIENT to CT with Trauma Team and EMS if present**  
**Trauma Team** brings trauma bed, CT req, tPA protocol (for **Neurology** to complete)  
**EMS** departs with stretcher once pt on CT table

**CT/CTA COMPLETE**  
**Neurologist** – communicates tPA tx decision to **Trauma Team**  
One **RN** begins tPA preparation in trauma room

**tPA**  
recipient

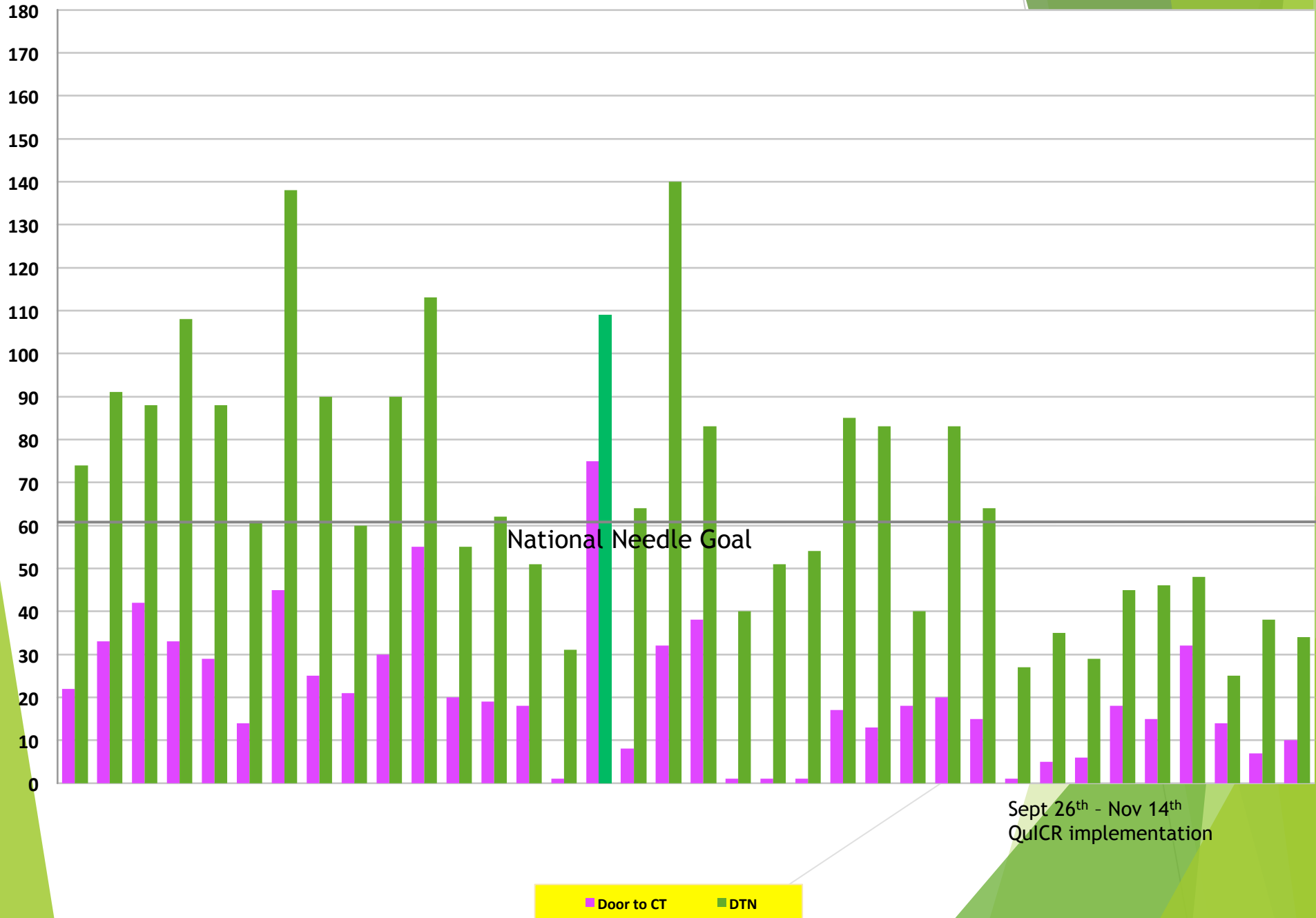
**tPA ADMINISTRATION**  
Move pt onto trauma bed from CT  
Obtain pt weight for dosing if not done  
**Pt** returns to Trauma room for tPA administration as per protocol  
Admit to **ICU** or transfer out for Endovascular Therapy

If pt to be transferred for endovascular therapy, **CN** will coordinate with **neuro & RAAPID**

**GOAL**  
Door In Door Out  
**45 min**

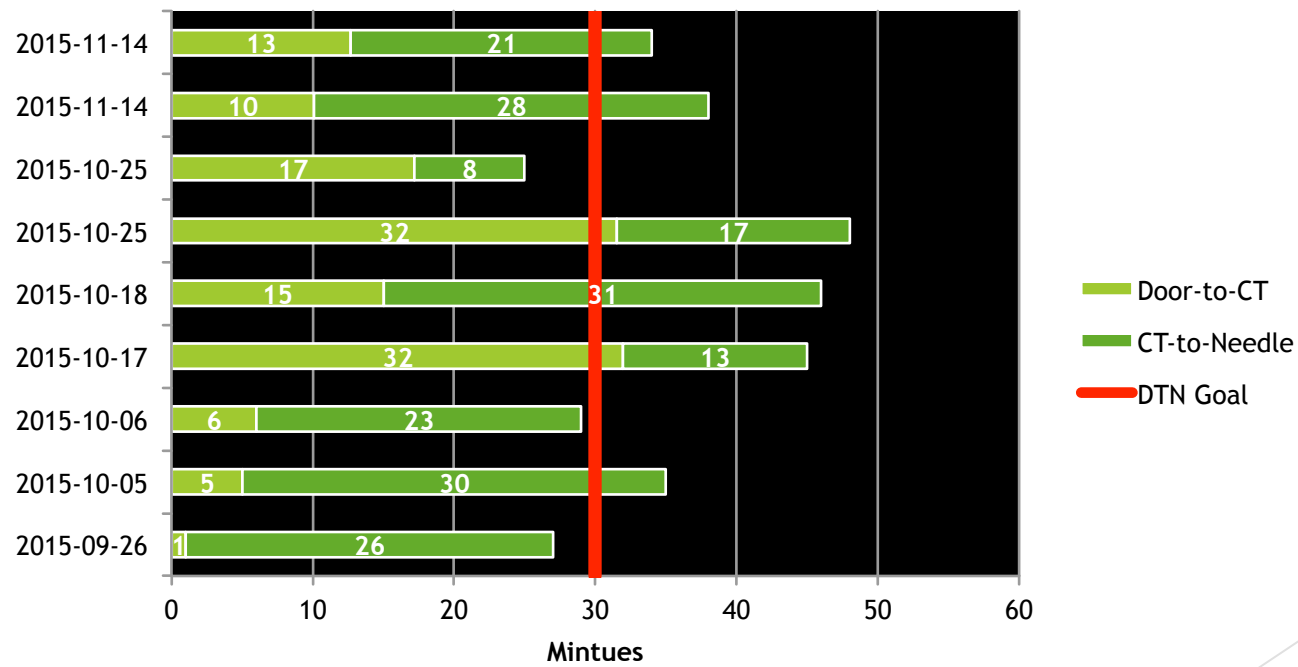
November 4th, 2015

# tPA Door to Needle Time - RDRHC ED 2015



# IMPACT

## Door-to-Needle Times



# IMPROVEMENT

- ▶ Previous DTN @ RDRHC ED = 78 minutes
- ▶ Current DTN @ RDRHC ED = 35 minutes
  - ▶ (Sept 26<sup>th</sup> - Nov 14<sup>th</sup> - 9 pts)



# WHAT NEXT??

- ▶ Continued improvement to consistently achieve DTN 30 minutes or lower
- ▶ Sustain the momentum
  - ▶ Communication - share successes and challenges
  - ▶ Feedback to all team members
  - ▶ Friendly competition??

**GOAL**

**DTN time**

**30 min**

**GOAL**

**Door In Door Out**

**45 min**