# Transfers from an ASRH to CSC

Aurora St. Luke's Medical Center



#### **Aurora St. Luke's Medical Center**

- Licensed Beds: 938
  - General Beds: 465
  - ICU Beds: 126
  - Neuro-Surgical ICU Beds: 27
  - Stroke Unit Beds: 46
  - Rehab Beds: 36
- Operational Beds: 636
- Medical Staff:
  - Active and Associate: 1241
  - APPs: 419
- Accredited by DNV
- TJC Comprehensive Stroke Center
- Achieved Fifth Magnet Recertification in 2018
- State certified as a Level III Trauma Center

- Rehab: CARF Accredited
- Chest Pain Center Accreditation, Society for Cardiovascular Patient Care
- Mechanical Circulatory Support Device (VAD) Program: Joint Commission
- PCI Designation Level III
- Transplant Program: United Network for Organ Sharing (UNOS) Designated Transplant Center - Solid Organ
- AHA GWTG Gold Plus Target HF Honor Roll









### **Our Stroke Journey**

2005 – Obtained TJC Primary Stroke Certification

2014 – Obtained TJC Comprehensive Stroke Certification

April 2021 – anticipated first DNV Comprehensive Stroke Certification Survey

### **Assessments**

- LKWT
  - Consistent LKWT
  - Last Known Well vs Last Known Normal
- NIH
  - Mainly scores MCA region
  - Score can vary across practitioners
  - Ensure you are scoring the first response, do not coach the patient
  - Score what the patient does, not what you think the patient can do
  - https://www.youtube.com/watch?v=do2CbY\_Nm5c
- Dysphagia
  - Fail if patient has a facial droop
  - Have plan for a swallow eval for those who fail

### Why is the NIH so Important?

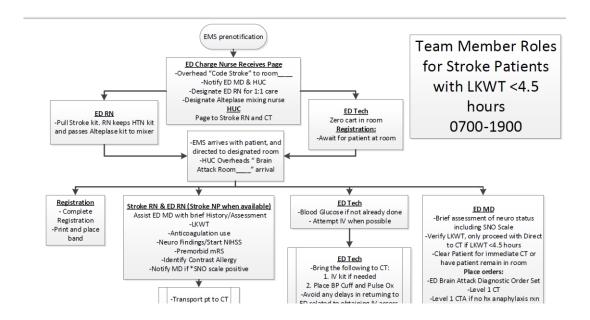
- Initial score of 7 was found to be important cut-off point
  - NIHSS >7 demonstrated a worsening rate of 65.9%
  - NIHSS <7 demonstrated a worsening rate of 14.8% and were almost twice (1.9x) as likely to be functionally normal at 48 hours (45%)
  - (DeGraba et al., 1999)
- NIHSS <5 most strongly associated with D/C home</li>
- NIHSS 6-13 most strongly associated with D/C to rehab
- NIHSS >13 most strongly associated with D/C to nursing facility
  - (Schlegel et al., 2003)
- A change from 2-4 may be a significant change that should be communicated to the provider if the patient has a in motor strength, sensory change, or visual field deficit

# **Diagnostics**

- Labs
  - Glucose
  - If on Coumadin need INR ASAP
  - Draw rainbow
- Door to CT start < 25 minutes</li>
- Door to CT result < 45 minutes</li>
- Door to CTA result <60 minutes</li>
- PT/PTT result median of 45 minutes

### How do we achieve times?

- Know your roles
  - Have team members assigned to each task
- Establish processes for speed and efficiency
  - For ED staff
  - Neurology
  - Transfer



### Thrombolytics < 45 minutes

- Direct to CT Process
  - Do not room your patients
- Team members each assigned a task
  - RPh/RN to mix alteplase
- Involving Teleneurolgy early
- Administer hypertensive medications early
  - Give 1 dose of labetalol, then move on to Cardene
- Staff follow up for all stroke patients
- COMMUNICATION

### Door in, Door Out

- Coordination with Tertiary Access Program
  - Notify TAP ASAP to begin communication about need to move patient
  - Bed Constraints for non Alteplase and LVO patients
  - Teleneurology assisting with LVO coordination

#### EMS transport

- Let EMS know:
  - When flush will need to be started
  - Any HTN medication given
  - BP Parameters
  - Neuro check
  - Where they are going at sending facility ICU vs IR
    - Do they need to call anyone upon arrival?

## Door in, Door Out

#### Report to sending facility should include:

- Time bolus was given
- Any HTN medications given
- Any meds that were hung upon discharge

#### Feedback

- ASLMC sends feedback on any alteplase or LVO patient that is sent.
- This helps us to communicate any care concerns as well as close the loop with the sending facility.

Metric	<u>Result</u>	IV Alteplase Goal	MER Goal
ED MD Eval	At arrival time	<5 minutes	<5 minutes
		Immediately after EMS pre-notification or arrival to	
Notify Stroke Nurse	Pre-notification	triage	
Initiate CT Scan	1	<5 minutes	<15 minutes
Stroke MD Consult	2	<15 minutes	
Interpret CT	14	<25 minutes	
Initiate CTA Scan	45	<30 minutes	
Neuro IR Consult	15	<30 minutes	
Interpret CTA	1:23	<45 minutes	
Door to Needle			
(Alteplase)	40	Primary<45/Stretch<30	
ASLMC to Groin	9	NA	<60 minutes
ASLMC to first pass	20	NA	<90 minutes
ASLMC to Reperfusion	30		<120 minutes
TICI Score	2b		2B or 3
Door-In Door-Out	1:16		< 60 minutes

#### Patient Outcome:

Most Recent mRS: 5 Most Recent NIHSS: 17

LKWT-Reperfusion: 3:53

Initial ED Arrival-Reperfusion: 2:33

**Additional Timing Measures** 

#### Recommendations for Improvement:

Really great times overall. Nice work by the Hartford team. The door-in door-out time and coordination of care appears to have gone well after initiating the CTA and getting the patient out.

# Questions