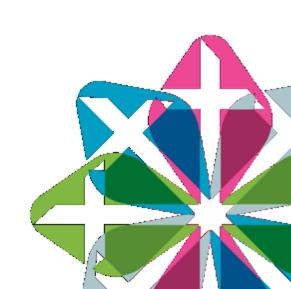
# PRIMARY STROKE CENTER BERNADETTE MEDVE, MSN, SCRN





# Disclosure/s

None



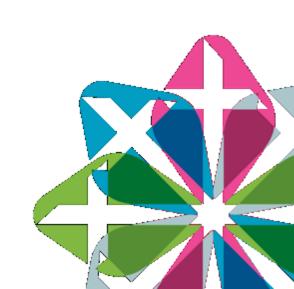
# Objectives

- Define primary stroke center
- centers
- certified stroke center

ST. JOSEPH'S HEALTH

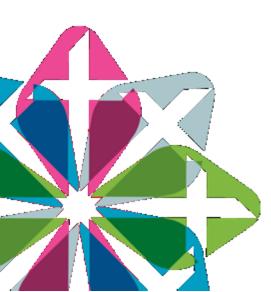
Understand the difference between primary and comprehensive stroke

Identify resources available to assist new facilities with designation of a



### Primary Stroke Center:

"Primary stroke centers are designed to be part of a larger stroke system of care. Which means the hospital is equipped to evaluate, stabilize, and provide emergency care to all patients with acute stroke symptoms."



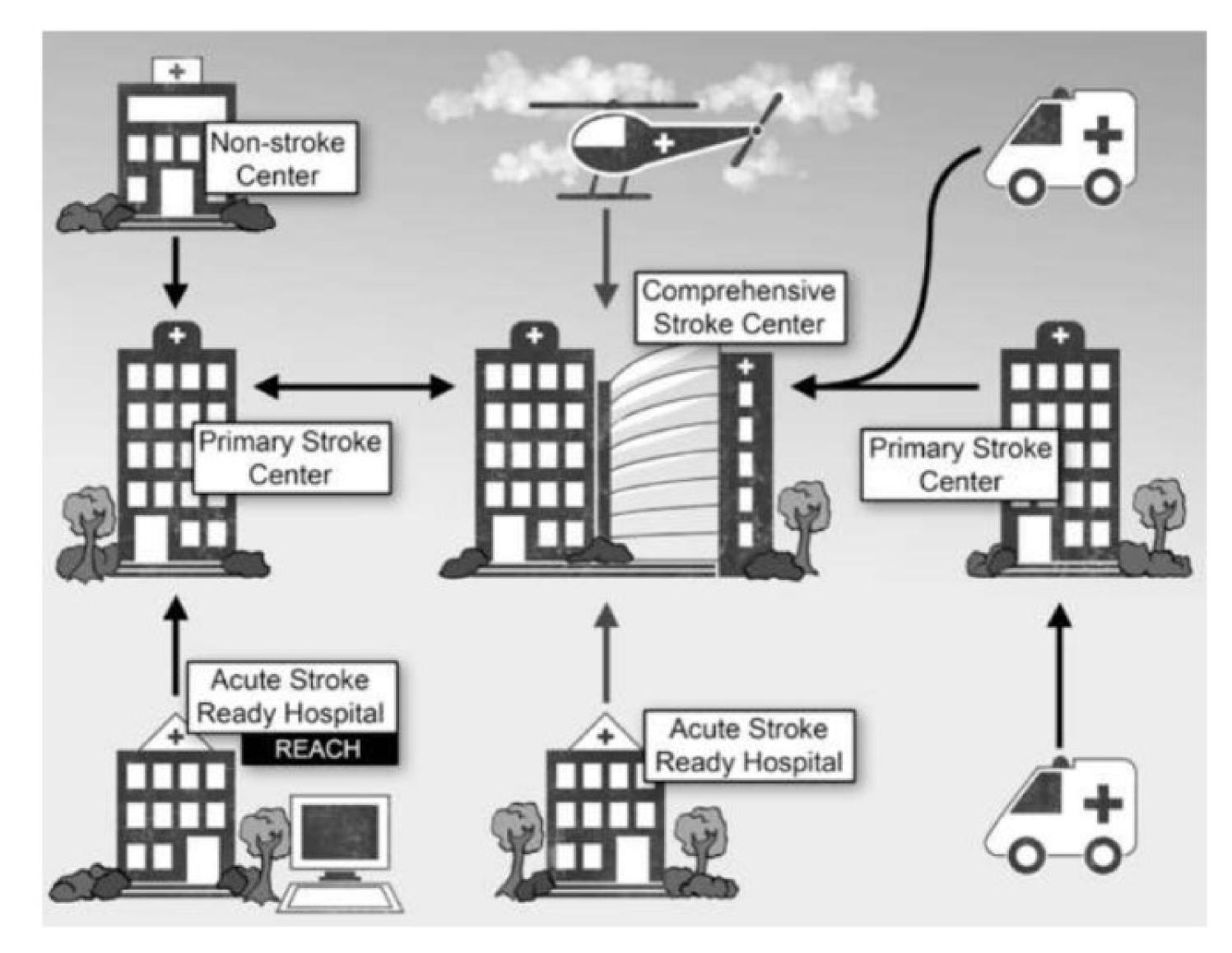
DNV, 2022



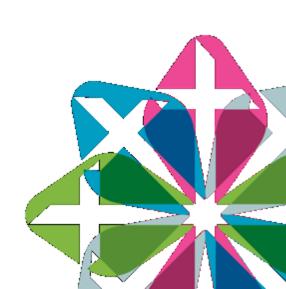


JOSEPH'S HEA

# Stroke System of Care







# Primary vs. Comprehensive Stroke Centers

Primary Stroke Center (PSC)

- Stroke Unit or designated beds  $\bullet$
- CT/CTA/MRI 24/7  $\bullet$
- Neurologist 24/7 in person or via ● telemedicine
- Administer thrombolytics (alteplase, TNK) ullet
- Neurosurgery available w/in 2 hours –SUNY  $\bullet$ & Crouse
- CNY PSC: SJH, Auburn, Samaritan Medical • Center, Rome

Comprehensive Stroke Center (CSC)

- Dedicated neuro ICU
- Intervention 24/7 cath/angio/thrombectomy
- 24/7 neurointerventionalist, neurosurgeon, & neurologists
- Aneurysm, clipping, coiling (volume requirements)
- Patient centered stroke research
- CNY CSC: Upstate, Crouse, Mohawk Valley Health System







# St Josephs Hospital Timeline

2015- Oct- Stroke Coordinator- vascular patient

2016- Gap analysis

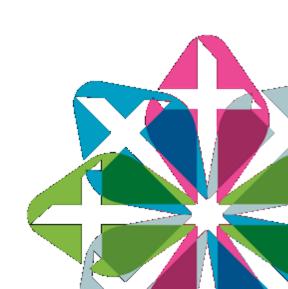
2017-NYS DOH Application submitted/Site visit

2018- March- NYS DOH designation June- DNV application/Site visit July-DNV certified

2021- Partnership with SUNY for ED LKW< 4 hours

2022- SJH teleneurology services





# **Core Stroke Team Members**

- Emergency Department Physicians RN's
- Neurologists: Dr. Saada, Dr. Kumari, Dr Shah, & Chelsea Yager PA Bernadette Medve SCRN- Stroke Coordinator Upstate partnership
- Residents (2<sup>nd</sup> & 3<sup>rd</sup> year)
- ICU RN MSICU CVICU Nursing Supervisors



Dr. Fahed Saada Stroke medical Director



Dr. Savita Kumari



Dr. Syed Shah



Chelsea Yager PA

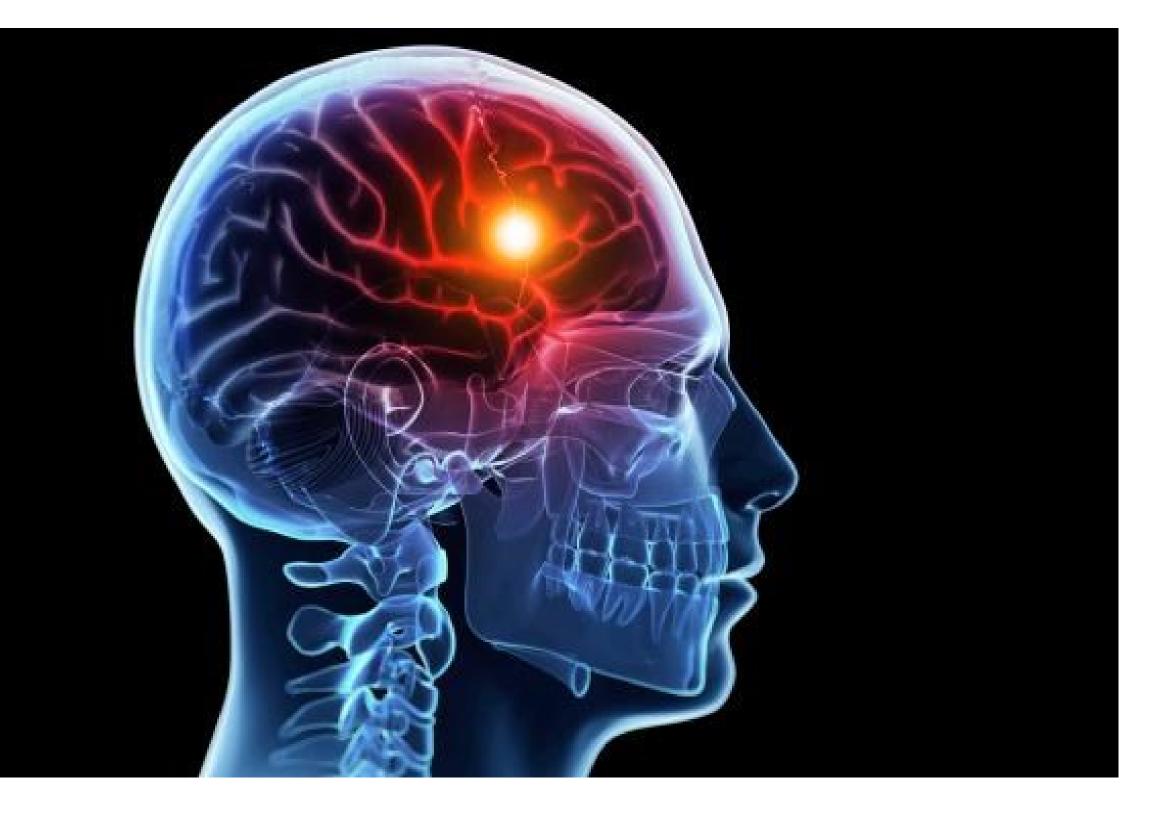


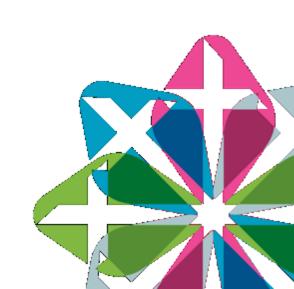
Bernadette Medve SCRN Stroke Coordinator



# **Patient Presentation**

- Balance •
- Dizziness
- Vision
- Weakness
- Numbness
- Arrival of patient- 59% EMS arrival with 8% prenotification





# Patient Population

High risk-

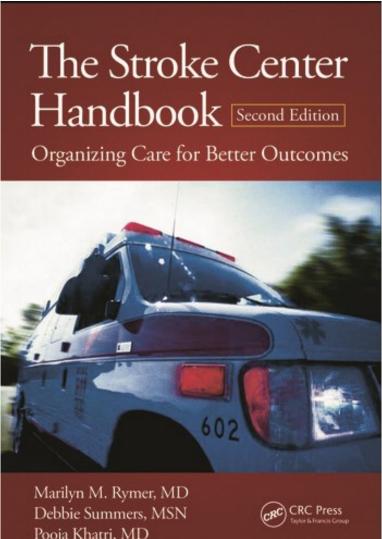
- On anticoagulants- NOAC, warfarin Held for minor vs major surgery
- Surgery-Cardiac (rapid extubating protocol) Transcatheter aortic valve replacement (TAVR) Vascular
- Cardiac catheterization
- Illegal drug use- heroin, cocaine •



### Resources Conferences-2016 STAR NY- DWI ?

- Neurologist- Dr. Kevin Thomas, Dr Fahed Saada
- AHA/ASA- Guideline
- The Stroke Center Handbook
- Mentors- Other stroke coordinators Jennifer & Josh (SUNY), Oksana(Crouse)
- Committees- Central & Western NY Stroke coordinators Consortium (CWSC), Trinity Health stroke coordinators
- DNV/Joint Commission Guidelines

### ST. JOSEPH'S HEALTH

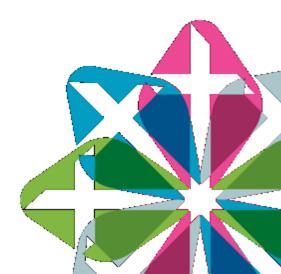


Stroke Treatment Alliance of Rochester

STAR-NY









### Many process improvements

"Why are we doing this when we have two Comprehensive stroke centers 5 minutes down route 81?"

Standardized the care of the stroke patient-policy & procedures, order sets etc.

Stroke education- NIHSS certification- stroke team

Improve door to thrombolytic time- Mix at the bedside

Dysphagia screening

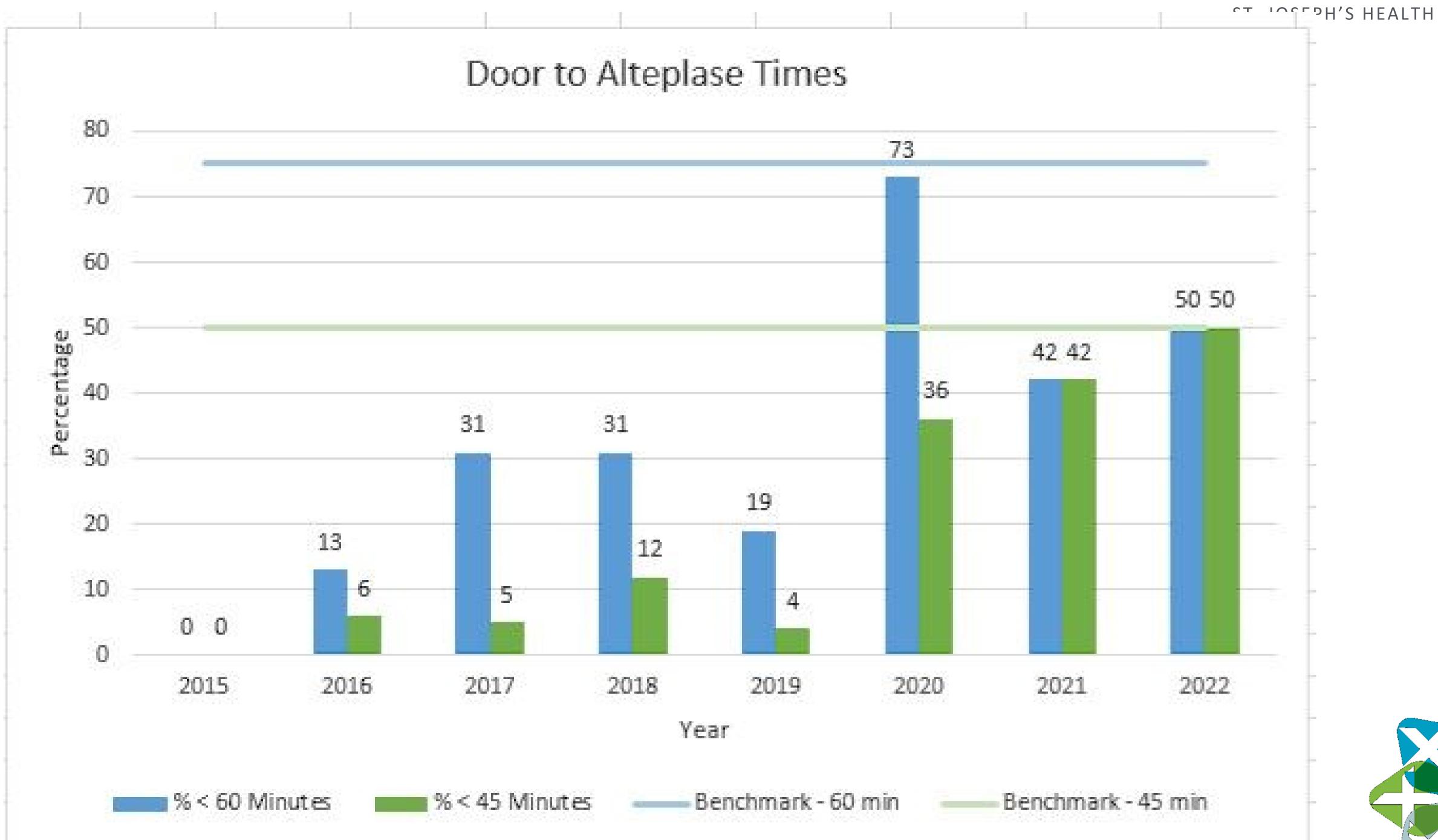
Improve in-house stroke care

2019-Cover the emergency room "business hours" to 24/7 coverage via telemedicine

Assign ED stroke nurses on all shifts



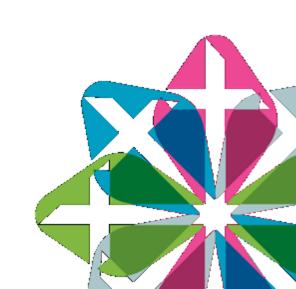






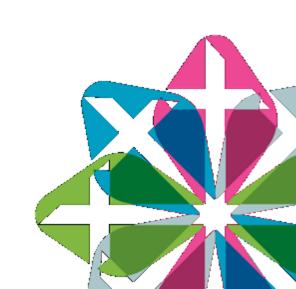
### Case Review #1

- 56 y.o female Hx type 2 DM, HTN, HLD, depression, prox. A fib, oropharyngeal dystrophy, CP, NSTEMI
- Admitted for cardiac work up
- Started on hep gtt. but d/c at 0300 the day after d/t Hx of HIT
- Evaluated for heart cath
- A&O X 3 in cath lab pre holding area, took a nap at 0930 awoke at 1123 with dense right hemiplegia

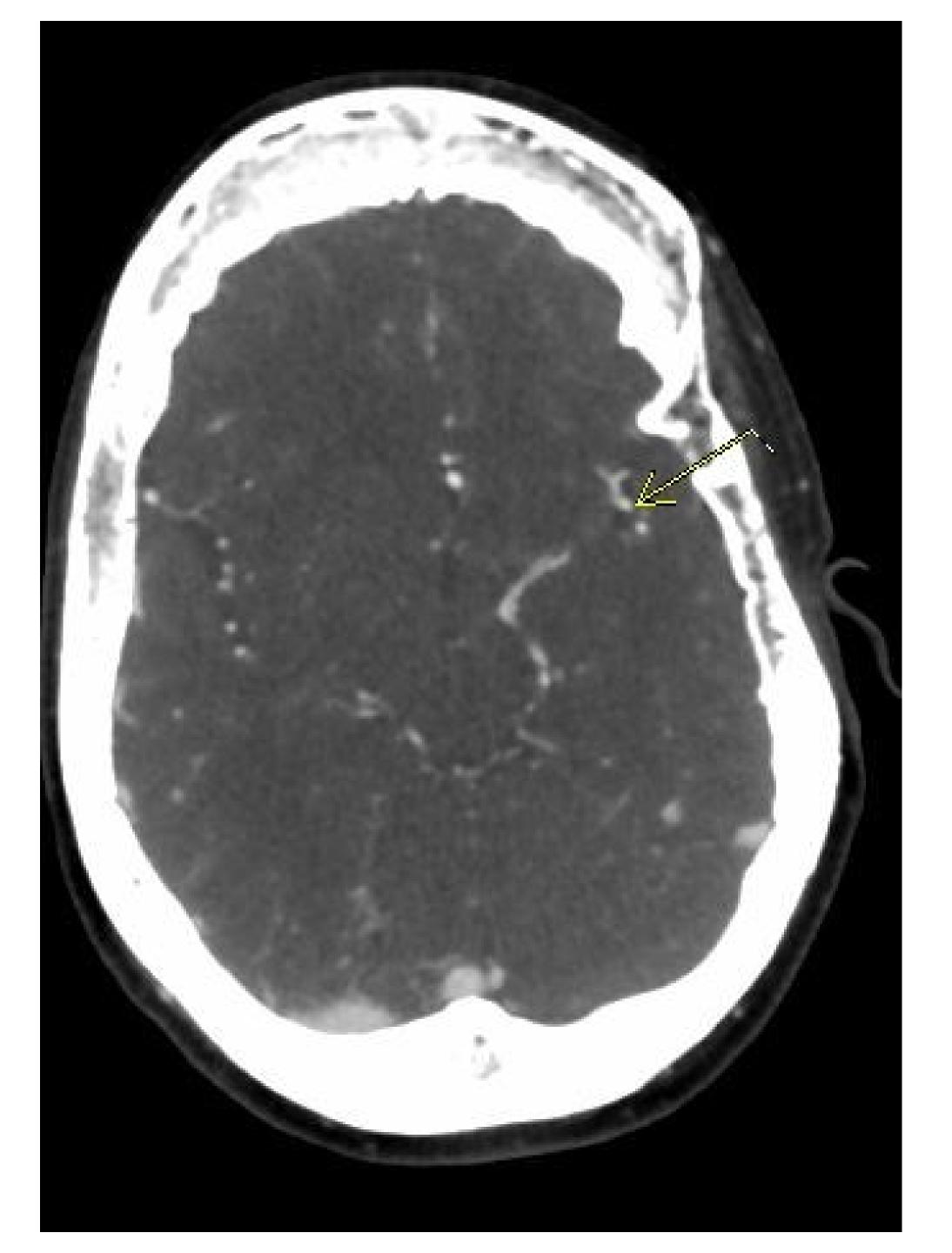


## Case # 1 cont.

- LKW 0930
- Symptom discovery 1123
- NIHSS-15
- CT- 1134 CT read 1147
- CTA -1140 CTA read -1223 + LVO
- Alteplase candidate 4.9mg bolus @ 1155, followed by infusion 44.2mg at 1200
- After alteplase given pt. started to move right are/leg
- Pt transferred to SUNY at 1315



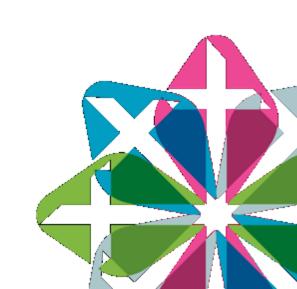
### Case #1 cont.





### Case # 1 cont.

- Pt transferred to SUNY at 1315
- NIHSS at SUNY-16
- Angio showed recanalized M2 with distal M3/M4 occlusion. No thrombectomy was performed.



### Case Review #2

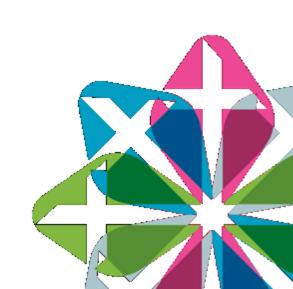
40 y.o male Hx of CP, CAD, type 2 DM, HTN, obesity, ischemic cardiomyopathy.

Admitted to cardiac surgery for CABG & MV repair

unit

POD # 4- Acute onset dense hemiplegia CT/CTA

### POD#1 – CVICU, rapid extubating protocol transferred to step down



# Case #2 cont.

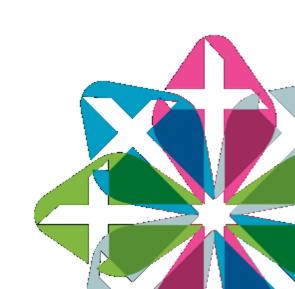
- LKW 0630
- Symptom discovery 0730
- CT/CTA 0730
- NIHSS-20
- Transferred at 0825 to SUNY
- NIHSS at SUNY -15
- Thrombectomy TICI 3
- NIHSS on D/C to acute rehab 4



# Primary Stroke Care

- Improve patient outcomes •
- Decrease mortality & morbidity •
- Decrease disabling deficit •
- Provide secondary prevention measures





### SJH Stroke Mission Statement

"To provide every stroke patient with the highest quality, compassionate, evidence-based care throughout the continuum from emergency treatments, the in-patient stay and into the rehabilitation phase in a consistent and safe manner "







