

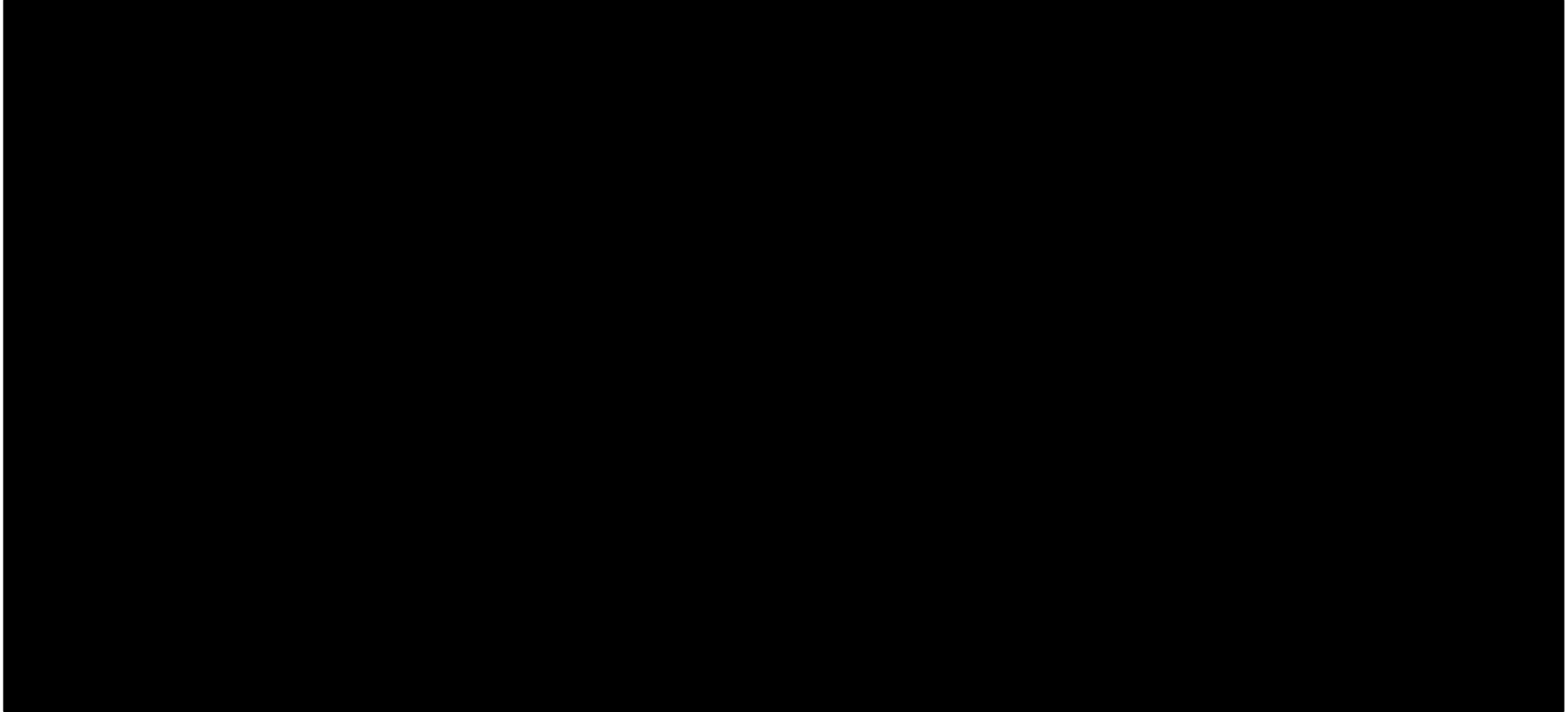


Cerebrovascular Accidents Are Waiting to Happen

Peter Antevy, M.D.

**EMS Medical Director
Broward, Palm Beach, & Brevard Counties
PEM Physician, JDCH**

Is This Your Stroke Center?



Why Was Big Change Needed?

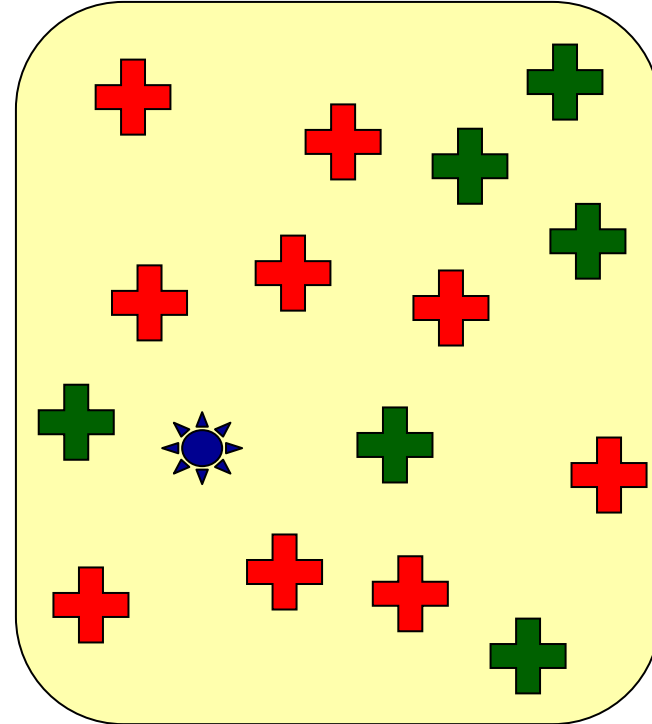
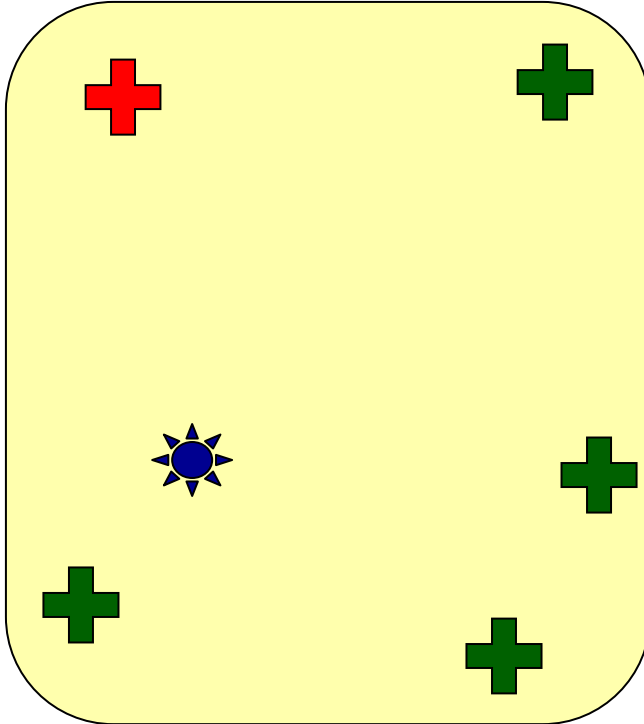
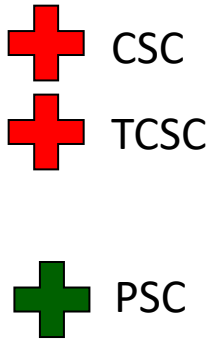


- 67 YO Male
- No Prior Medical History
- Suffered Ischemic Stroke ~ 5AM
- Found at 7AM on the floor

Where Should You Take Your **Stroke** Patient?

Rural United States

South Florida

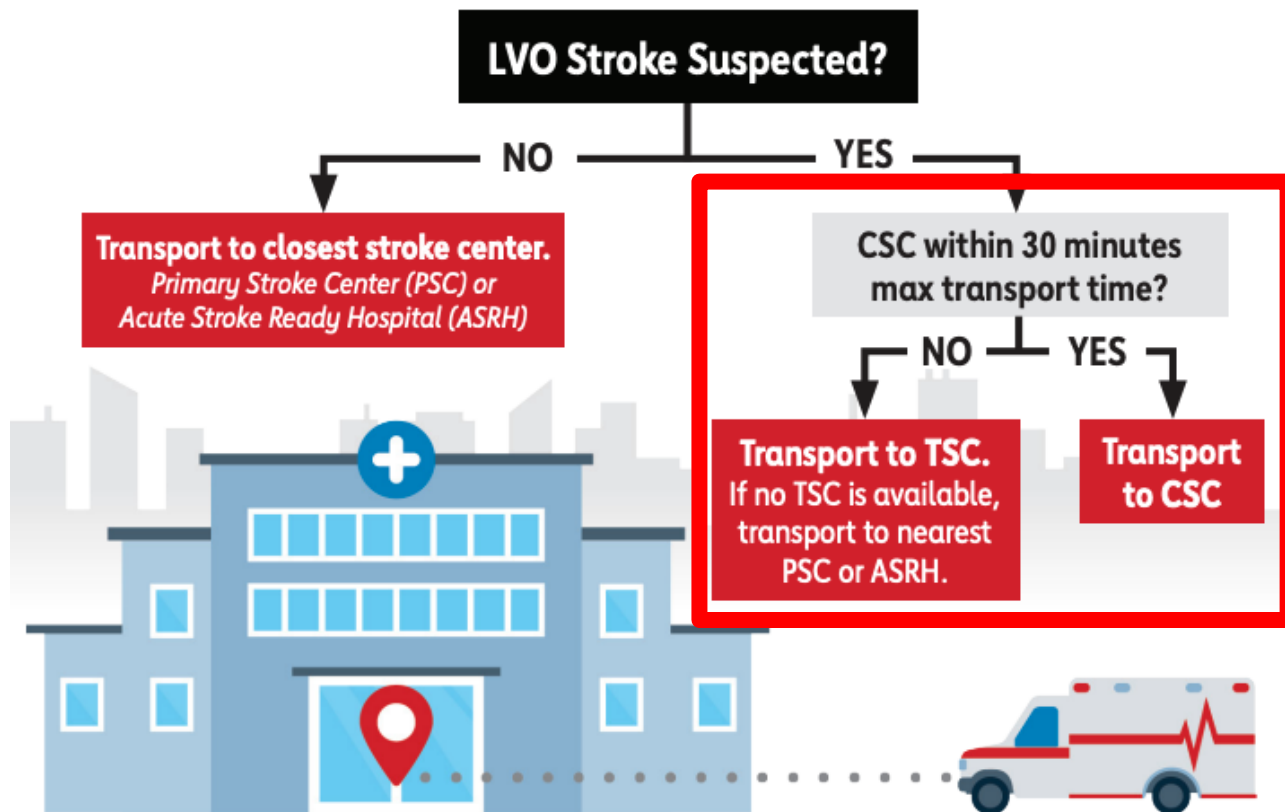




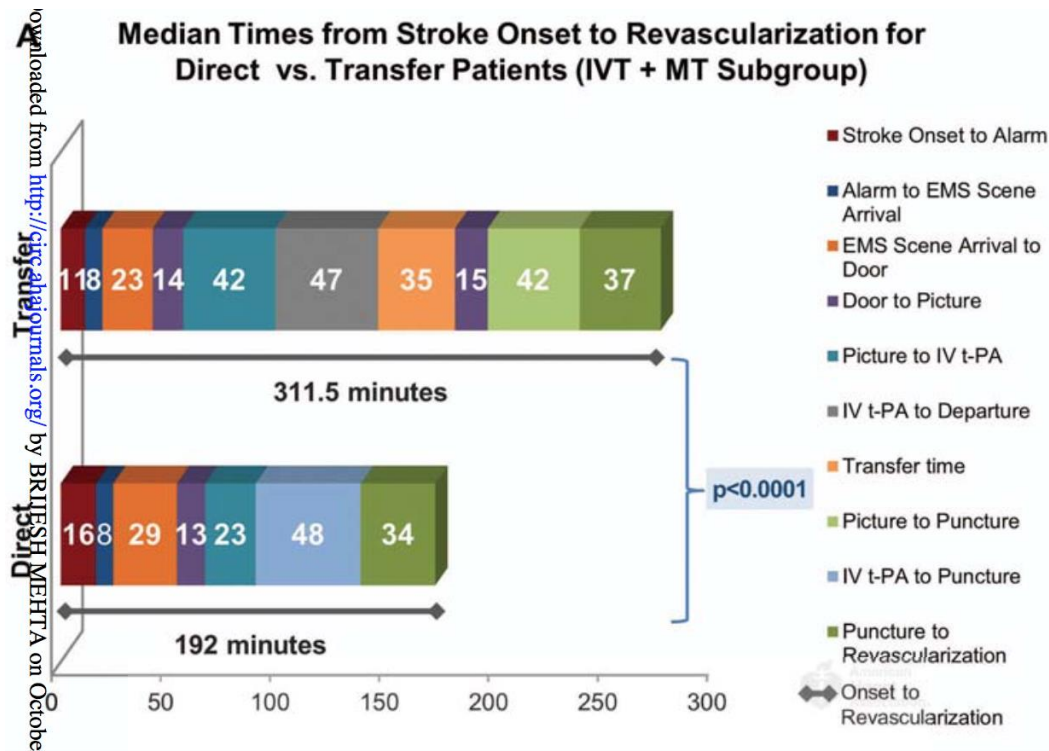
American Stroke Association
A division of the American Heart Association

Together to End Stroke®

Stroke Urban Transport Recommendations



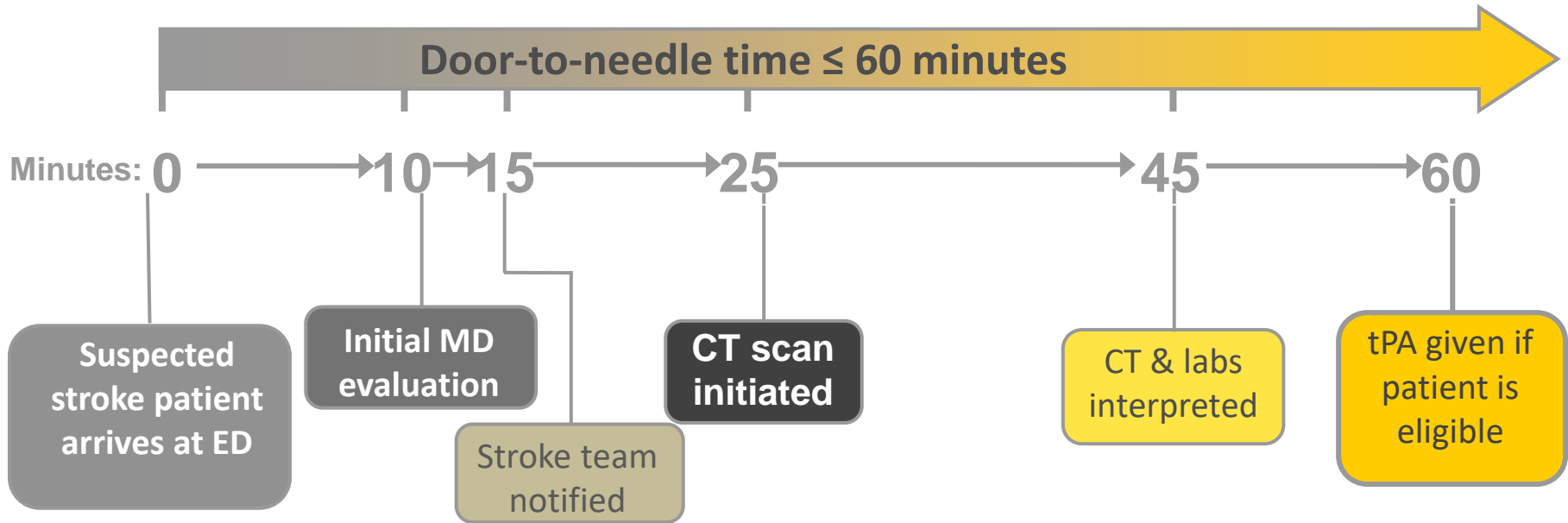
PSC → CSC Transfer Delays



Adds
2
Hours

Froehler et al.; Interhospital Transfer Before Thrombectomy STRATIS. Circulation 2017.

The Golden Hour for IV tPA



30 Minutes is Best

60 Minutes is Too Long

Stroke Care in Broward County

- 8 Comprehensive Stroke Centers (CSCs)
- No Quality Oversight
- EMS triage criteria was based on distance alone
- No outcome transparency from CSCs
- Lack of research or QI collaboration among CSCs

Stroke Centers Were a Black Box

It All Started with a “Crazy Idea”

“Let’s Bypass All PSC’s”

RACE Scale – Training for EMS



Stroke Education at EMS Stations



We Published Our Data

ABSTRACTS SUBMITTED TO PROFESSIONAL MEETINGS		
American Academy of Neurology April 25-May 1, 2020 Toronto, Canada		
Factors Associated with Oral Anticoagulant Non-use in Patients with Atrial Fibrillation-related Stroke	N. Sur et al	Submitted Pending Acceptance
AHA Southeast Heart & Stroke Quality Summit April 23, 2020 Raleigh, NC		
The Florida Stroke Registry: From “Research Project” to “Statewide Program” for Quality Improvement of Systems of Stroke Care	C. Gutierrez	Submitted Pending Acceptance
International Stroke Conference Feb. 19-21, 2020 LA, CA		
Building effective stroke systems of care through a regional EMS coalition and data transparency initiative	B. Mehta et al	Submitted Pending Acceptance
The Safety and Outcomes of Endovascular Thrombectomy in Stroke Patients on Oral Anticoagulation: The Florida Stroke Registry	N. Sur et al	Submitted Pending Acceptance
Variation In Acute Ischemic Stroke Metrics for Nationally Certified Versus Self-Attested Comprehensive Stroke Centers In The Florida Stroke Registry	E. Marulanda-Londono et al.	Submitted Pending Acceptance
Race-Ethnic Disparities in Subarachnoid Hemorrhage Outcomes	A. Bustillo et al.	Submitted Pending Acceptance

Annual Stroke Survivors & EMS Recognition Dinner

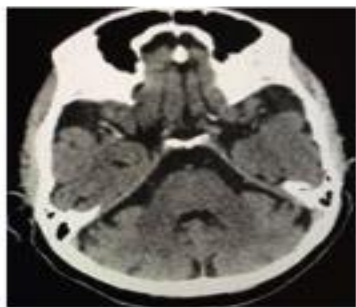
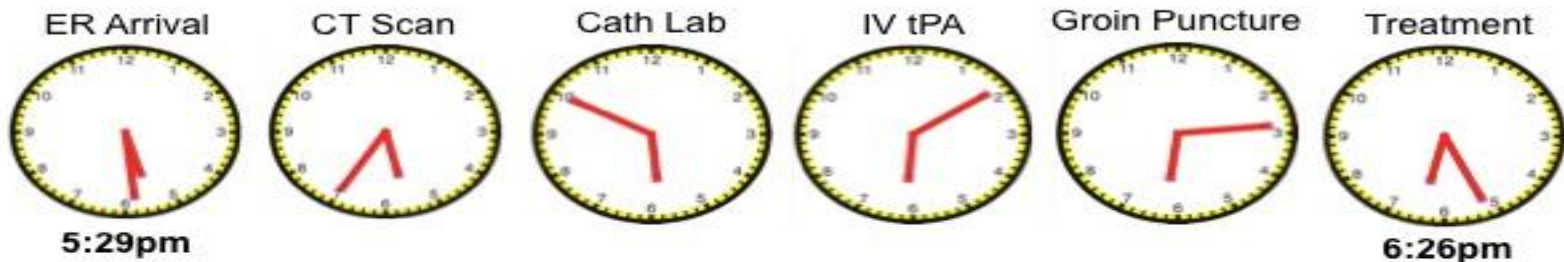




RESCUE STATION NO. 31

HOLLYWOOD
FIRE RESCUE
CLASS I DEPARTMENT

Acute Stroke Thrombectomy



74yoF left arm/leg weakness, NIHSS 16
Hallandale EMS (Station 90) → Memorial Regional
Full reperfusion with Solitaire device
Final NIHSS 1

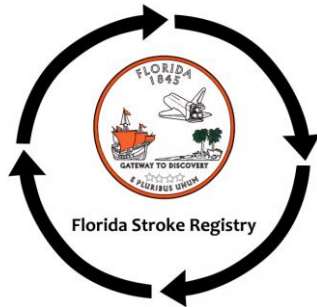
Performance Metrics

Door-CT (Picture)	6 minutes
Picture-Puncture	39 minutes
Puncture-Treatment	12 minutes

Medics in the Cath Lab



Then We Got Lucky

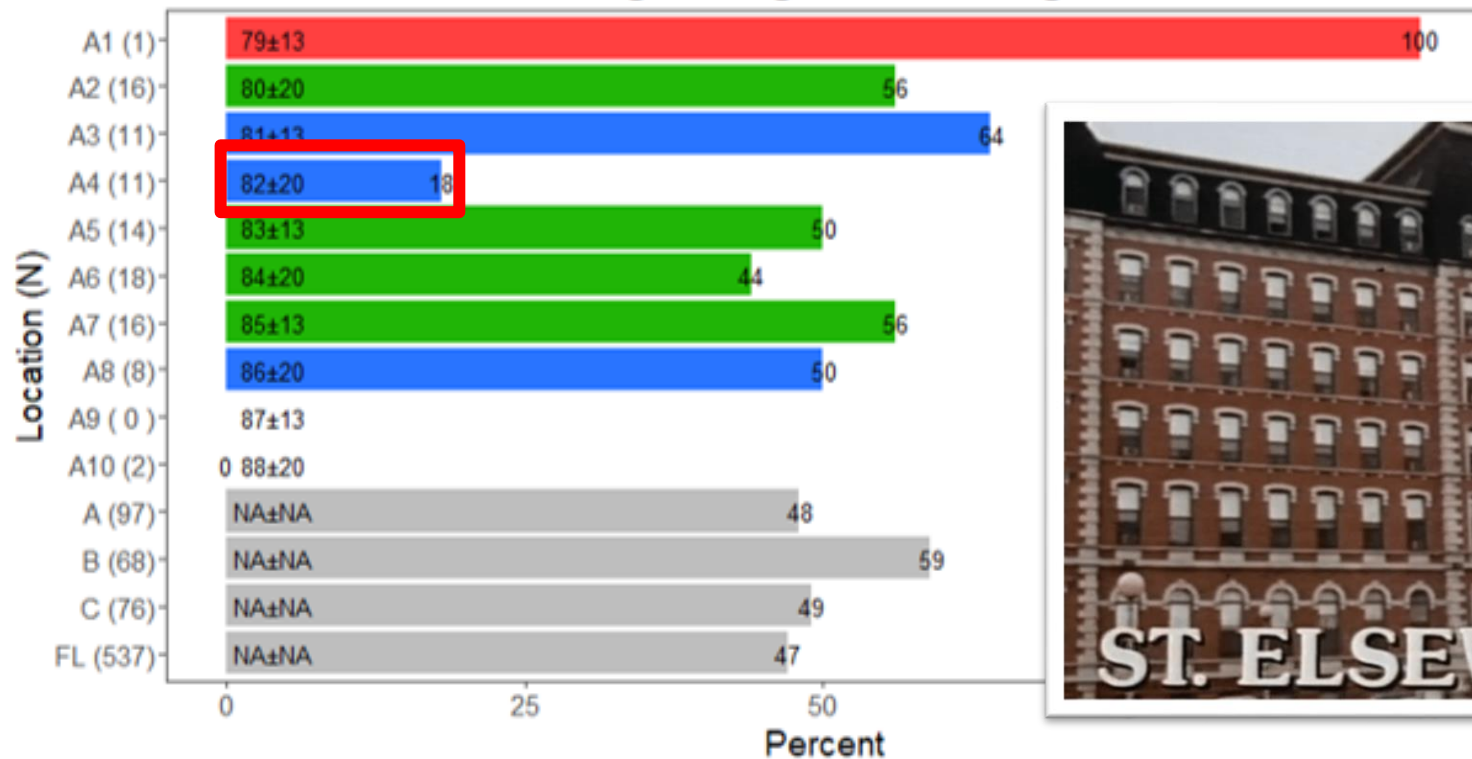


PSC and CSC Measures (11 Total)

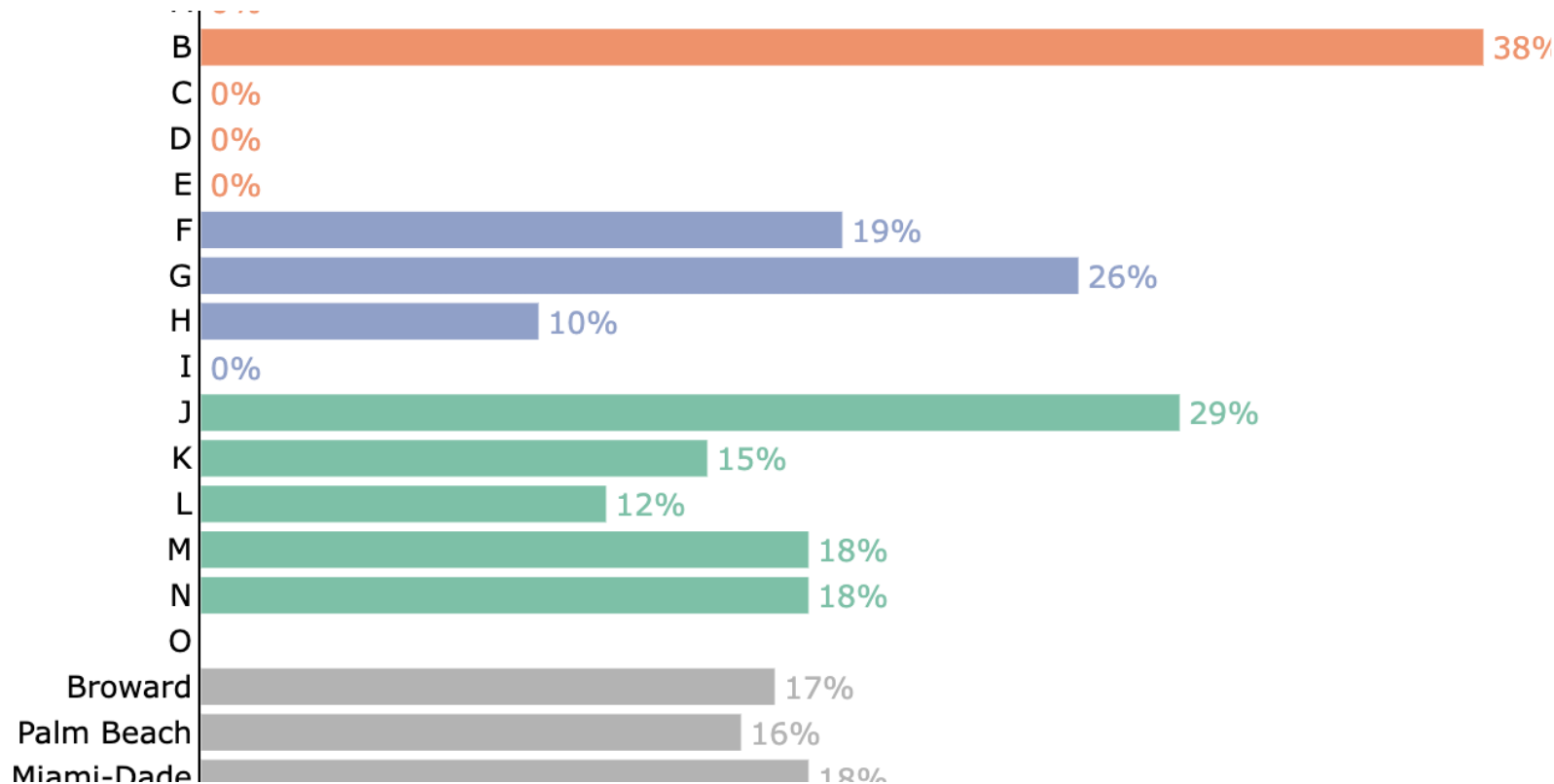


FSR Regional Dashboard Format

Percent mRS 0-2 at Discharge among those receiving IV-tPA



Percent Thrombectomy (Arrival within 24 hr)



State-level Attestation Had to Go

- **No** onsite survey
- **No** recertification policies
- **No** core measures, metrics or outcomes tracking
- **No** minimum aneurysm treatment requirements
- **No** submission of data to GWTG-Stroke database
- **No** requirement for research

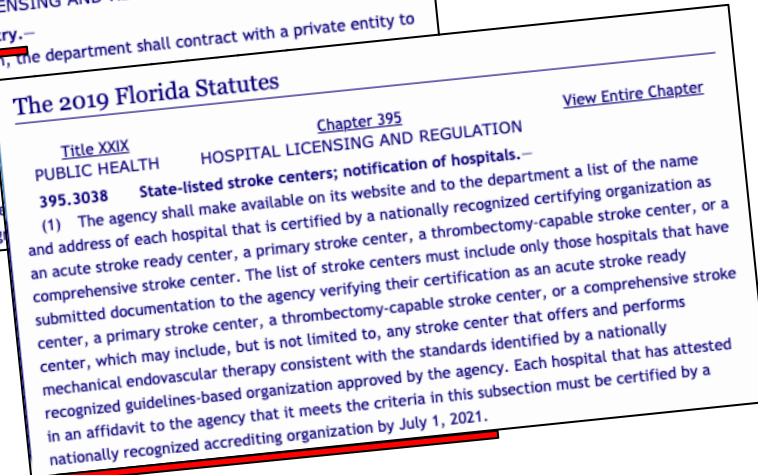
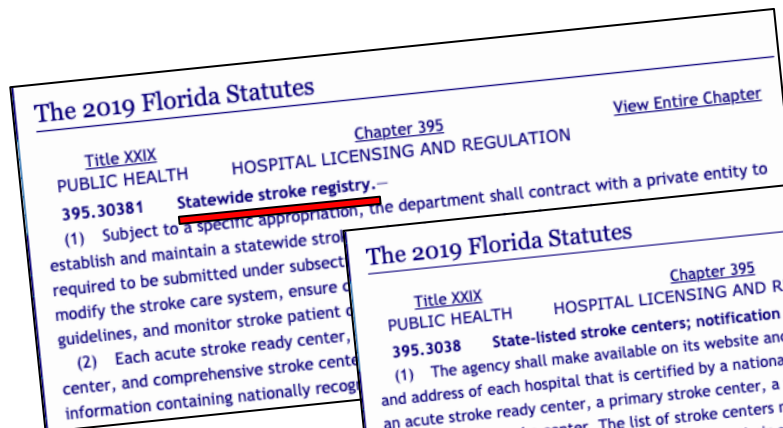




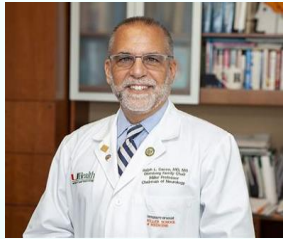
New Stroke Legislation in 2018 & 2019

Two New State Laws in 2 Years

- Florida Stroke Registry (Live)
- Removal of Self Attestation (2021)



Overview Of The Florida Stroke Registry (FSR)



Founded by
Ralph L Sacco, MD MS
UM Stroke Registry
(FL-PR CReSD)

2012

Initiated
NIH funded for 5 years

TIMELINE AND HISTORY

Florida HEALTH
2017

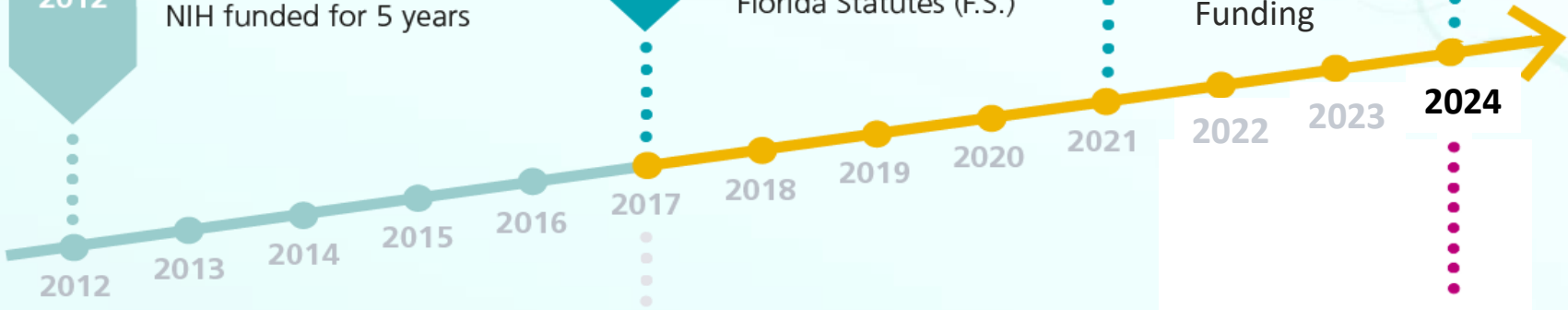
Florida Stroke Registry (FSR)
Enacted
Section 395.30381,
Florida Statutes (F.S.)

Florida HEALTH
2021

Awarded
CDC Paul
Coverdell Acute
Stroke Program
Funding

Florida HEALTH
June 2024

**Preparing
Renewal**
Florida
Coverdell
Program
(‘24-’29)



50 **STROKE CENTERS**

80 **STROKE CENTERS**

180 **STROKE CENTERS**

Overview Of The Florida Stroke Registry (FSR)

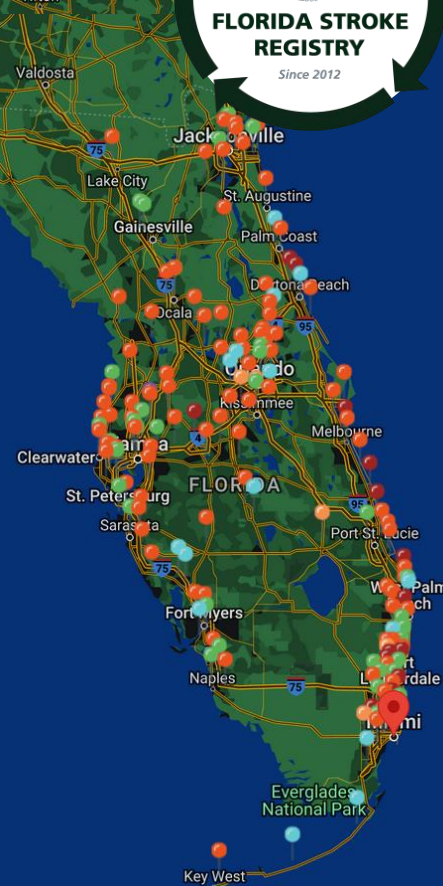


We are **180!**

(of a possible 185)

**89 % nationally certified
stroke centers**

Certification Type	Total sites	National Agency		
	180	JC	DNV	AHCA (HFAP)
Comprehensive Stroke Center	44	11	31	2
Thrombectomy Capable Stroke Center	17	13	4	
Primary Stroke Center	97	74	23	
Acute Stroke Ready	3	2	1	
None	19			



Case Conclusion - He is My Why!





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