

The New Hat-Trick

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Polk County Fire Rescue Stroke Patients 2025 : We're Good at Stroke Care

**Total Stroke Patients
Transported = 1614**

Ischemic Strokes = 1267

Non-Ischemic Strokes = 347



Polk County
Fire Rescue
Earns Mission:
Lifeline EMS®
Gold Award for
Second
Straight Year



How Can We Improve on Our Stroke Care ?



"Mediocre people don't like high achievers, and HIGH ACHIEVERS DON'T LIKE MEDIOCRE PEOPLE."

-NICK SABAN

MARCACCETTA.COM



“
**HOW ABOUT YOU ANNOUNCE
THAT YOU'RE GETTING BETTER**”

KIRBY SMART

ON BEING FOCUSED ON DEVELOPMENT IN NOVEMBER AND VOT POSTER UPDATES

EEG vs QEEG

EEG records **RAW** electrical brain wave activity

Diagnoses acute conditions :
Epilepsy

qEEG (quantitative EEG) uses **computer** algorithms to analyze data vs. normal to identify **dysregulated brain wave patterns**

qEEG visualizes **functional brain patterns** :
TBI / CVA

What is QEEG Looking for ?

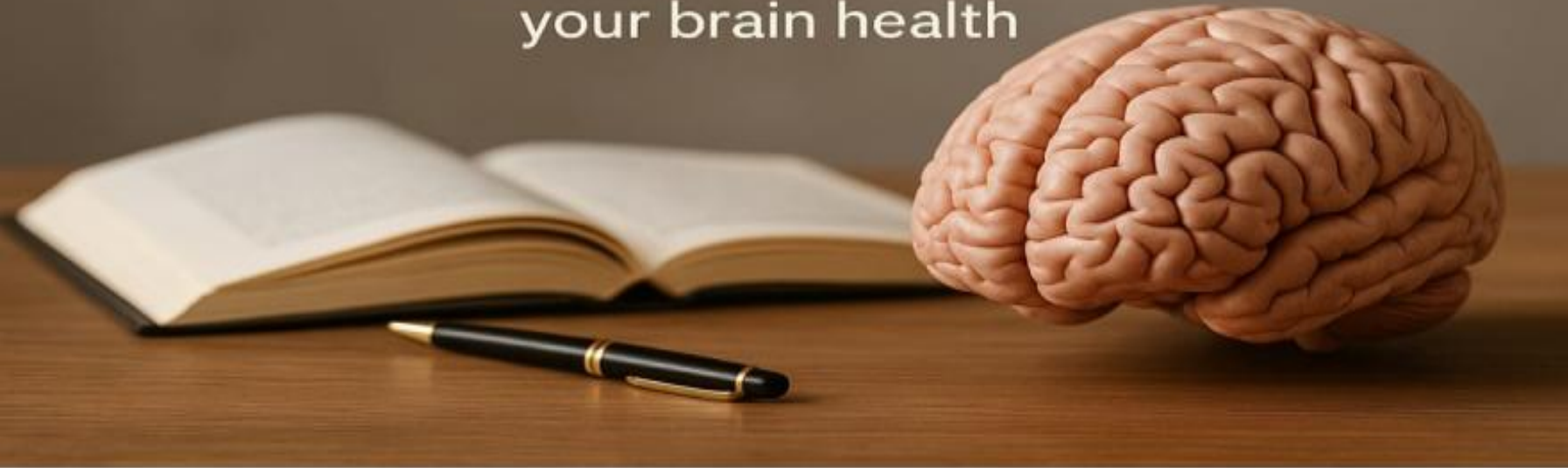
QEEG : Delta/Alpha
Ratio (DAR) ≥ 3.7

Acute CVA

Cerebral Dysfunction

BrainWise

Make wiser decisions on
your brain health



**IN THE
ROOM**

Stroke Care: Are we missing the elephant in the room?

"Be SMART – Not Just FAST"

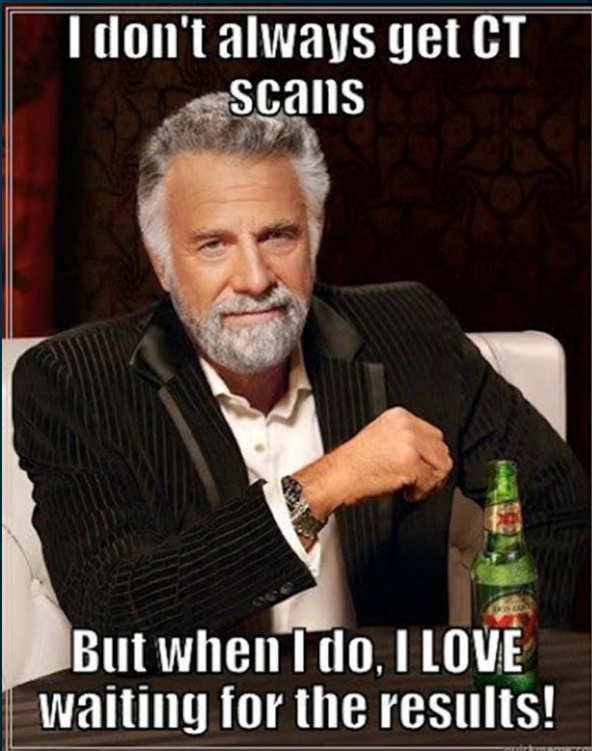
Prehospital Stroke Misses

33% of CVA patients are missed by EMS

33% of MISSED stroke cases presented < 3-hours and thus did NOT receive any stroke interventions

25% labeled “Altered Level of Consciousness”

ED is Worse than EMS : AMS and Stroke Misses



20% of acute ischemic strokes are misdiagnosed in ED

64% of CVA patients present with vague symptoms that are missed in the ED

Main Reasons for Missed Strokes

Mnemonic for Treatable Causes of AMS (AEIOU-TIPS)

- A Alcohol
- E Endocrine
Electrolytes
Encephalopathy
- I Insulin
- O O₂
Opiates
- U Uremia
- T Trauma
- I Infection
Intra-cranial
- P Poisoning
- S Seizure
Stroke
Sepsis
Shock

History of
migraines

Psychiatric
conditions

AEIOU-TIPS

LRH Partnership with PCFR

- Lakeland Regional Health is a 910-bed hospital
- 2nd busiest ED in the US with 220,000 visits a year
- CSC and Level I Trauma Center
- LRH supplied 100 Sensor Caps to PCFR
- Training department has been educated
- Plan is to roll out in September 2026
- Good feedback by the staff and easy to implement





Quality Improvement Project Fast Q with LRH

100 Patients with AMS and
NO focal deficit

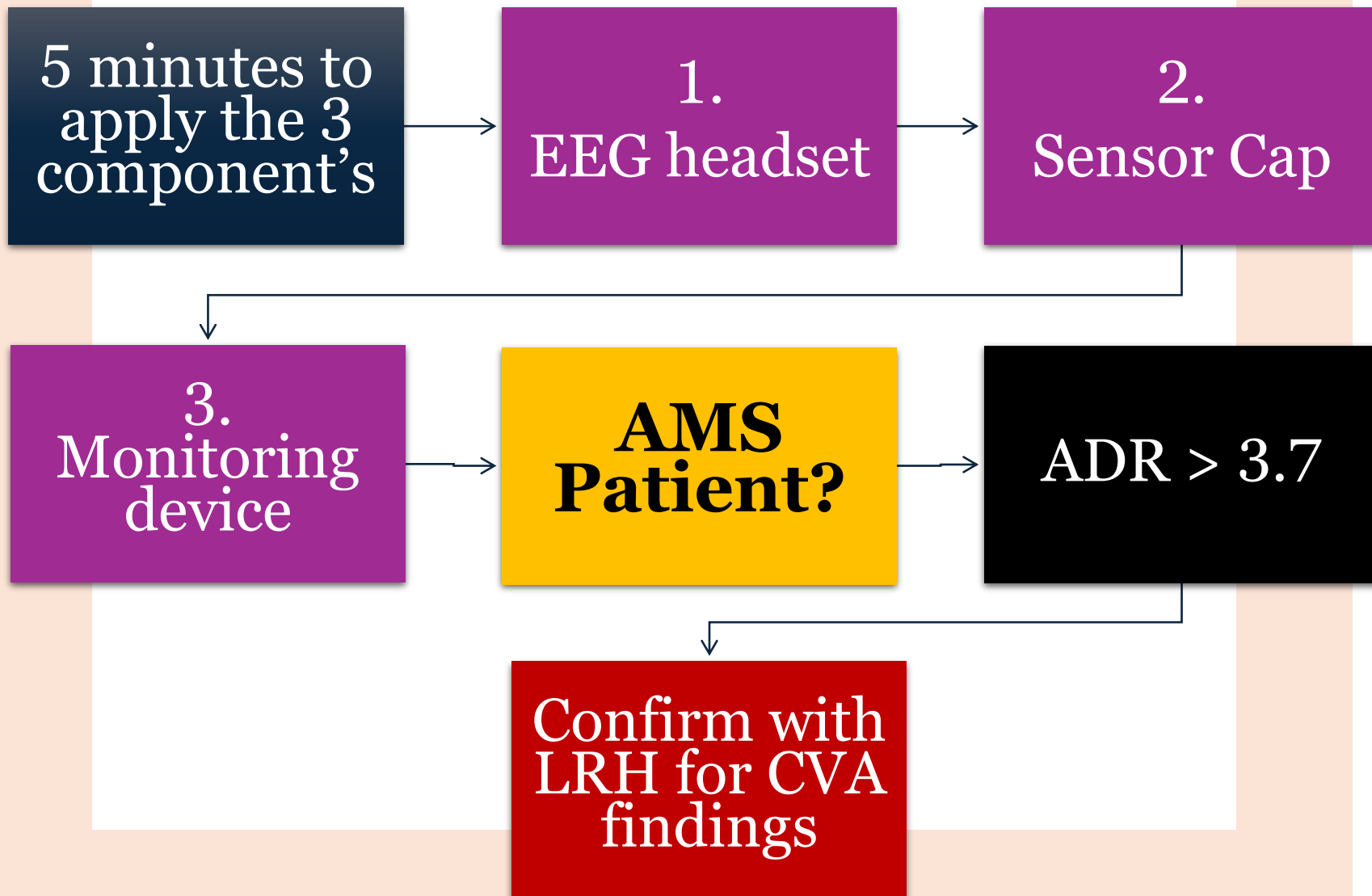


Goal : Find out how many AMS
patients with acute strokes are
we missing using SignalNED
and finding ADR qEEG if > 3.7 ?



**HOW
DOES IT
WORK?**


How is it Used?



Relative Band Power

	F7	F8	F3	F4	P3	P4	O1	O2
Delta	24.1%	25.4%	15.5%	22.1%	8.1%	7.1%	10.8%	9.5%
Theta	5.9%	7.5%	5.6%	5.4%	4.7%	3.8%	4.1%	3.9%
Alpha	53.3%	48.2%	59.9%	53.5%	62.1%	68.5%	58.2%	65.7%
Beta	16.7%	18.9%	19.0%	19.0%	25.1%	20.7%	26.9%	20.9%

Band power is relative to total power across these bands per electrode.

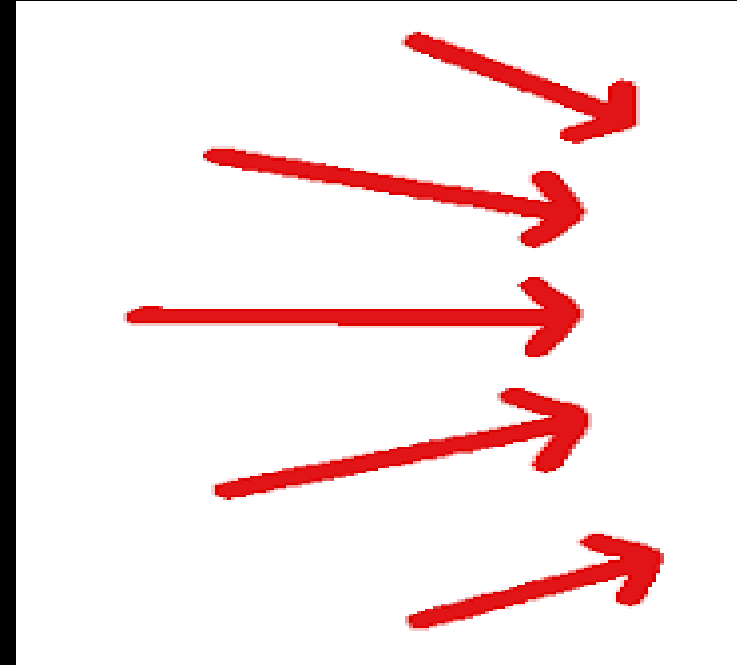
Battery 

Storage 

ALPHA

DELTA

ALPHA/DELTA RATIO



2.2

2.2

3.86

2.41

7.66

9.64

5.38



4 Frontal lobes
2 Parietal lobes
2 Occipital lobes



**Fingers
Crossed
and
I'll Keep you
Posted on
that**



HOW 'BOUT

THEM

DAWGS



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