SGEM#488

It's Just a Minor Stroke, Should We Still Lyse?

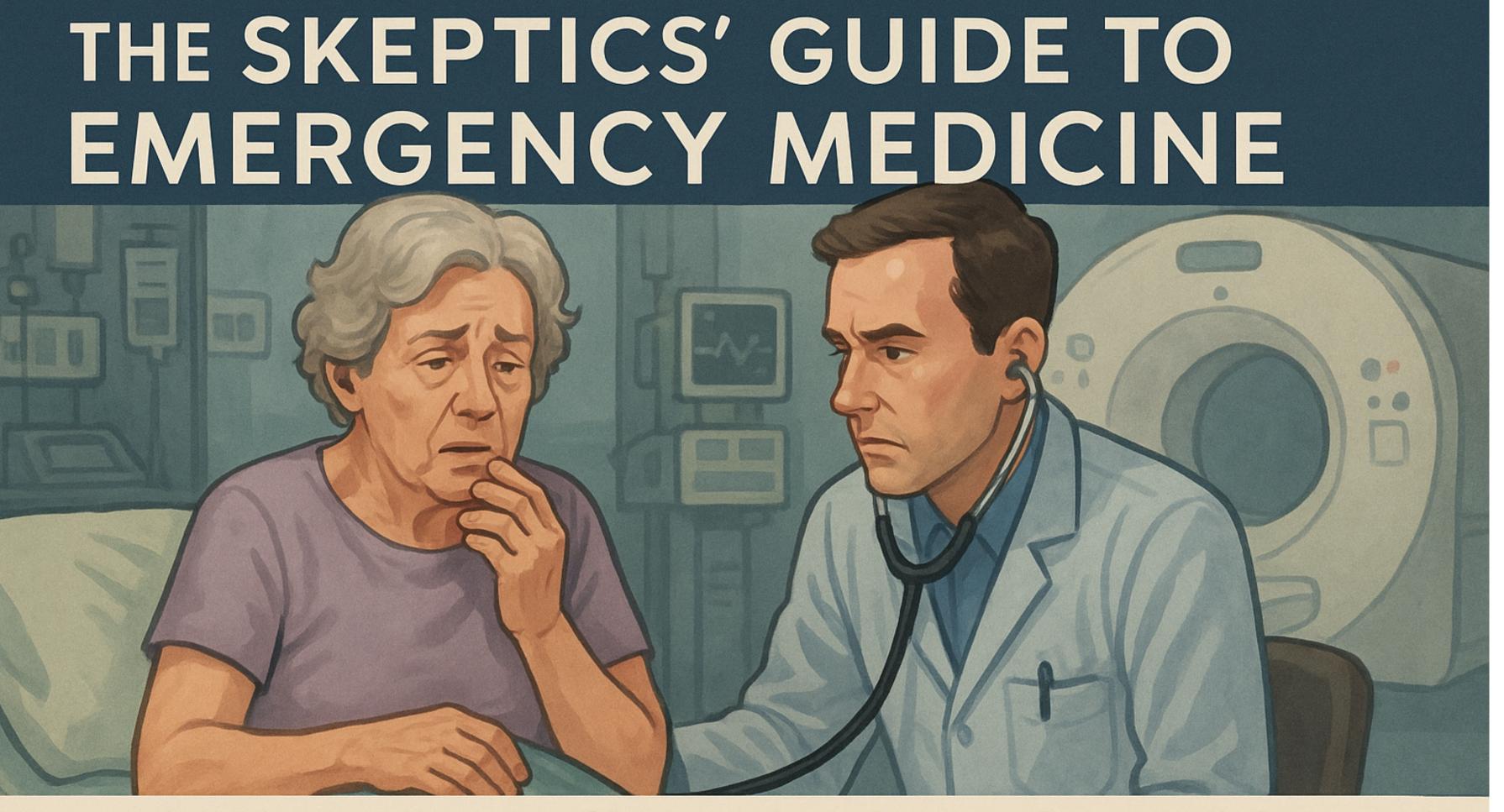


October 3, 2025





Case Scenario

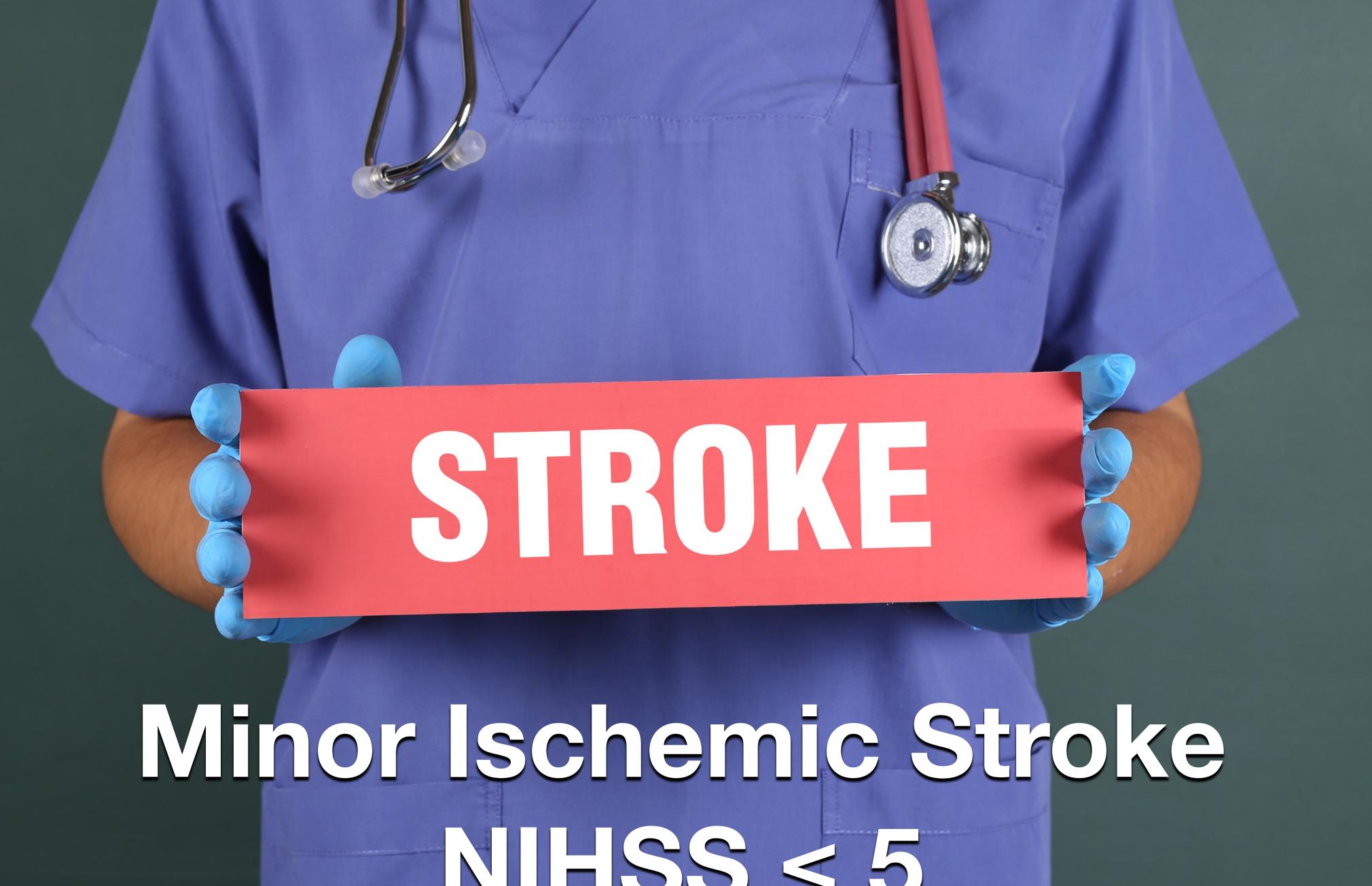


Dani is in your Medium Sized Rural ED with Stroke Should she get a dose of tPA?









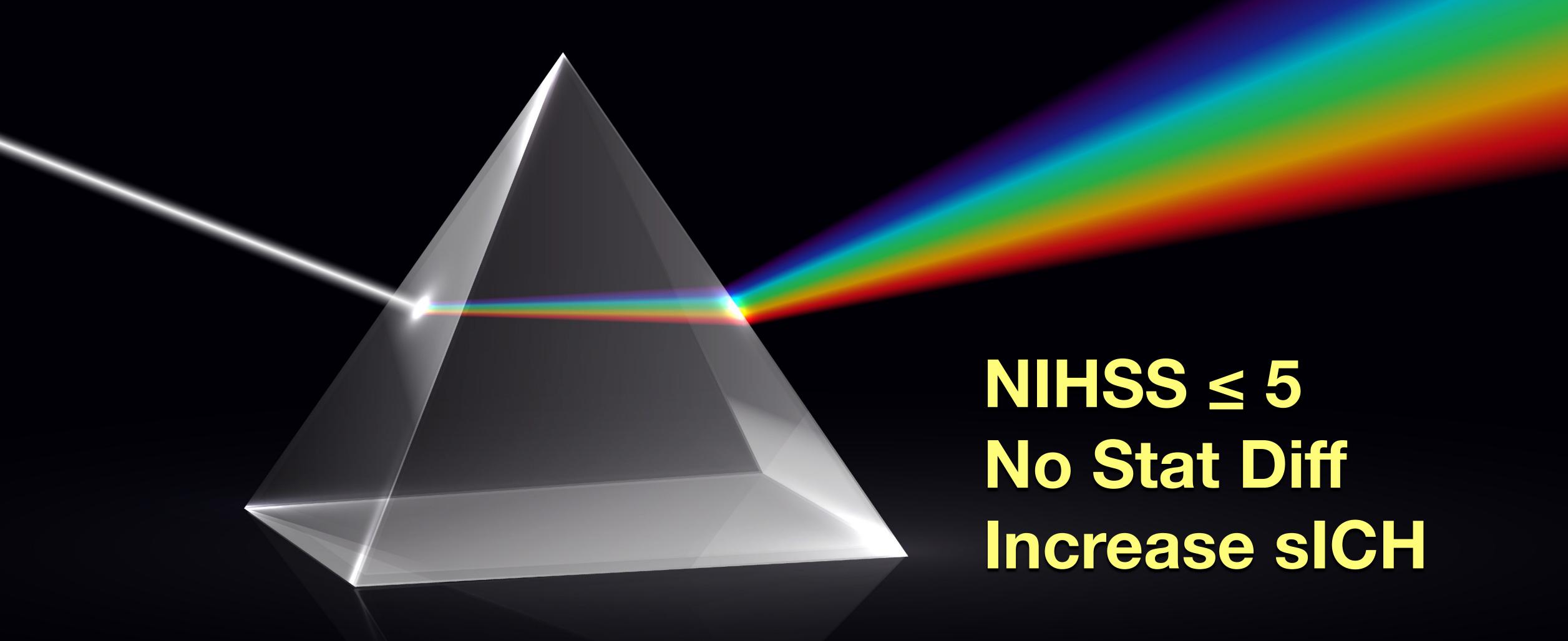
NIHSS < 5



Berkhemer et al NEJM 2015
N=500
ARR 14% NNT 7



PRISINS 2018



Viele et al JAMA 2016 Guyatt et al BMJ 2012 Tyson et al Trials 2016

Lack of Power



In adults with MIS, does IVT improve functional outcomes compared with non-thrombolytic standard care?



RESEARCH ARTICLE

Meta-Analysis of Randomized Controlled Trials on IV Thrombolysis in Patients With Minor Acute Ischemic Stroke

Mohamed F. Doheim, ¹ Thanh N. Nguyen, ² Yunyun Xiong, ³ Hui-Sheng Chen, ⁴ Nirav R. Bhatt, ¹ Yongjun Wang, ³ and Raul G. Nogueira ^{1,5}

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Doheim et al Neurology 2025

PICO

Population

Adults
NIHSS ≤ 5
<12 hr
RCTs

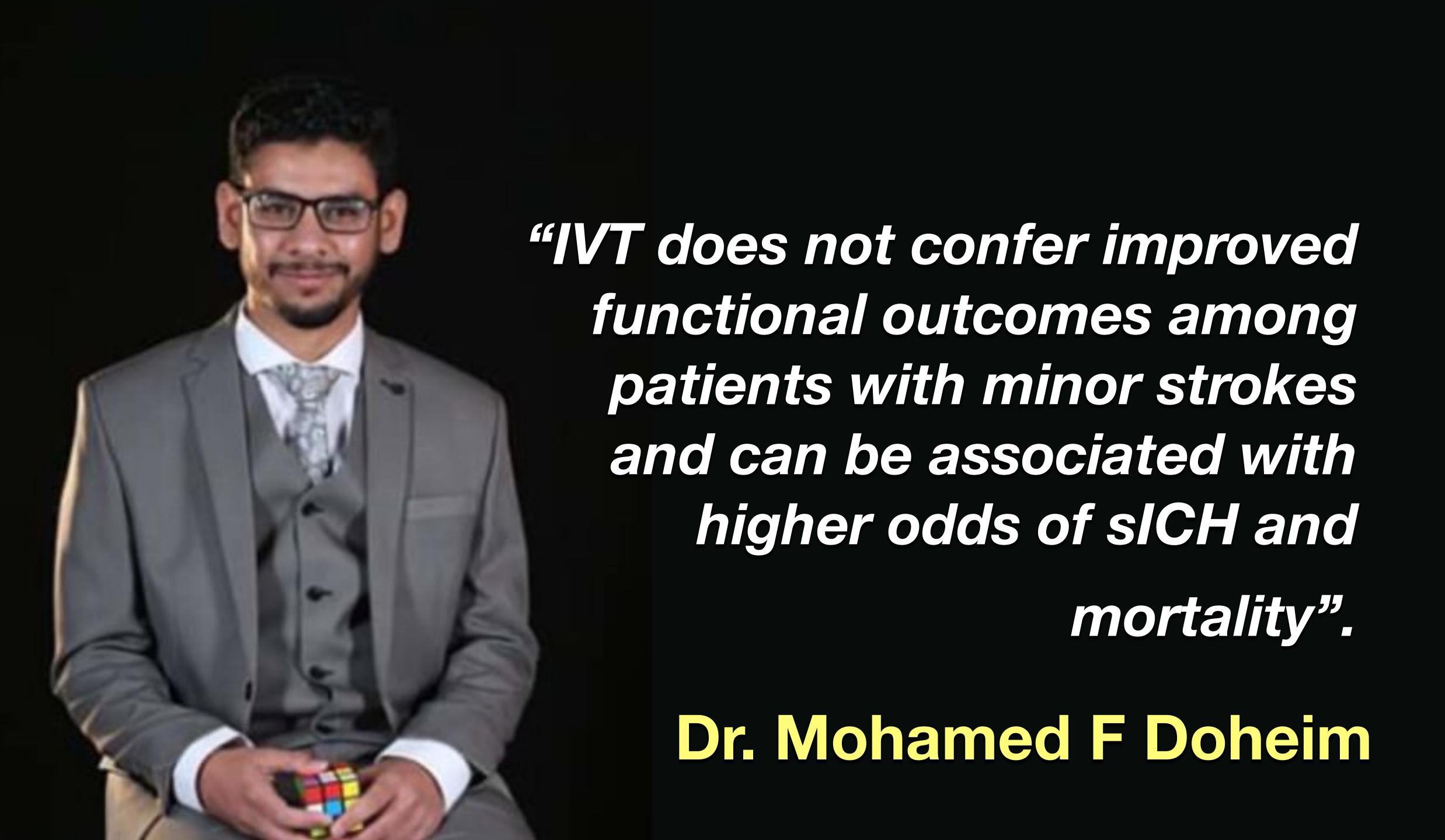
Intervention

IV Lytics Comparison

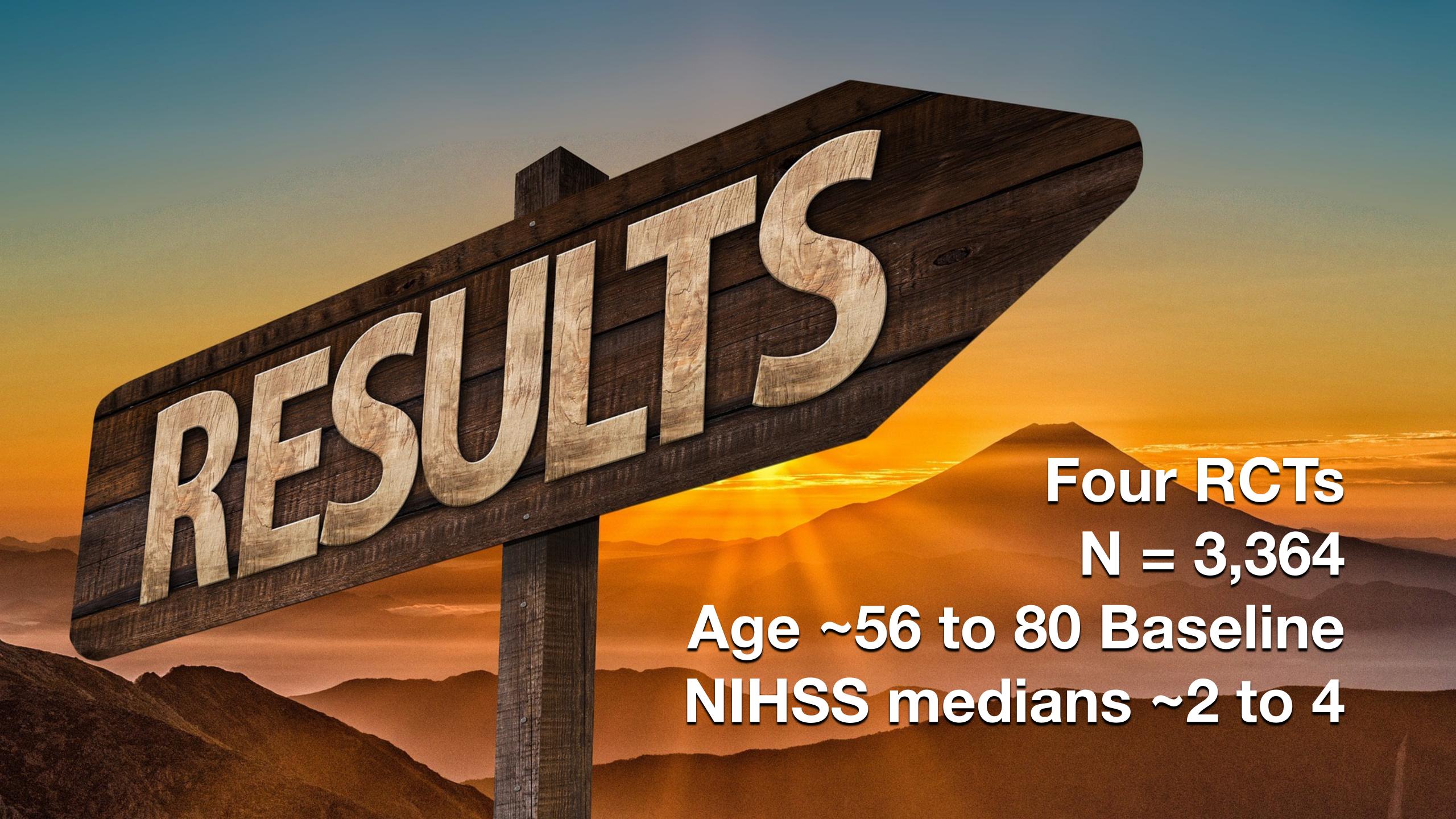
Non-Lytics
Standard Care

Outcome

Good Neuro (mRS 0-1) mRS 0-2 Mortality ICH









Key Results

IV Lysis Not Superior To Non-Lysis

Primary Outcome:

• mRS 0-1: OR 0.85 (95% CI 0.70-1.03)

Secondary Outcomes:

- mRS 0-2 at ~90 days: Worse IVT
- sICH: Increased IVT
- Any ICH: Increased IVT
- 90-day Mortality: Increased IVT
- Becurrent Stroke: No Stat Diff

Talk Nerdy To Me









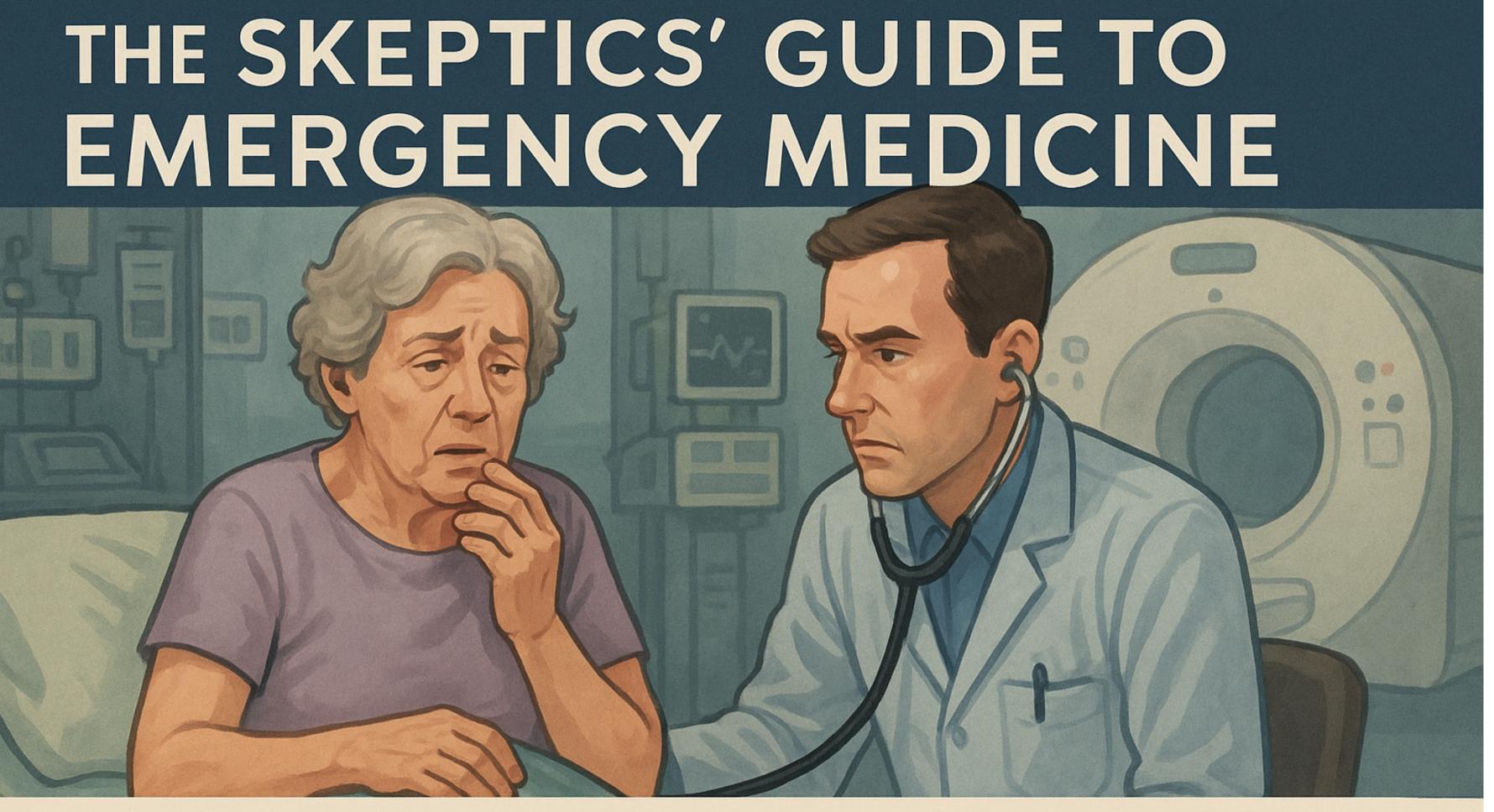




SGEM Bottom Line

For minor, nondisabling ischemic stroke, IV thrombolysis has no proven functional benefit & increases sICH & mortality compared with non-thrombolytic care.

Case Resolution



Dani is in your Medium Sized Rural ED with Stroke Should she get a dose of tPA?





Keener Contest



Dr. Cindy Bitter



Remember to be skeptical of anything you learn, even if you heard it on the Skeptics' Guide to Emergency Medicine.