



#### DISCLOSURES

- o Speakers Bureaus:
  - Genentech (Activase)
  - Chiesi (Cardene)
- o Consultant & Speaker:
  - Stryker



#### **UTHSC MEMPHIS**

- o 322 IV tPAs and 101 mechanical thrombectomies (MT) from a single hospital in 2014
  - sICH rate 2.2% (n=7)
- o 276 IV tPAs and 93 MTs year-to-date for 2015
   sICH 0.7% (n=2)
- o University owned/operated city-wide Mobile Stroke Unit starting in February 2015
- o Looking for a DYNAMIC Masters-prepared (minimum) advanced practice nurse to serve as our new Stroke Coordinator...call me!!







## THE U.S. <u>SHOULD BE</u> THE LEADING PROVIDER OF IV TPA FOR ACUTE ISCHEMIC STROKE • First country to approve intravenous alteplase for treatment of acute ischemic stroke

- Currently, more than 2000 certified Stroke Centers in operation
- NINDS 1997 recommended purpose of Stroke Centers: To administer IV tPA
- HOWEVER:
  - tPA treatment rates are significantly lower in the U.S. compared to foreign countries that have had approval for a shorter period of time
  - Informal networking with interdisciplinary colleagues on the topic of IV tPA treatment often reveals varied interpretations of what constitutes an acceptable IV tPA treatment candidate



#### NEW FDA LABEL INDICATIONS (PHYSICIAN LABELING RULE COMPLIANT)

- Alteplase is indicated for the treatment of acute ischemic stroke
- Exclude intracranial hemorrhage as the primary cause of stroke signs and symptoms prior to treatment
- Initiate treatment as soon as possible, but within 3 hours after symptom onset



#### WHAT IS A SYMPTOMATIC INTRACEREBRAL HEMORRHAGE (SICH) POST-IV TPA?

- o IV alteplase trials used different definitions for sICH:
  - NINDS rtPA Stroke Study any blood on the noncontrast CT and any clinical deterioration
     Endpoint = 6.4% sICH
  - SITS MOST and ECASS 3 parenchymal hematoma type 2 in combination with 4 or more point worsening on the NIHSS
    - The hemorrhage is solely responsible for the clinical worsening, NOT infarct evolution

# This constitutes how sICH is defined today!

o Contemporary sICH rates are commonly < 3%





#### CRITICAL CONVERSATIONS....

- "There is a drug that we can give your wife for the stroke, but over 20% bleed in their brains and die." Submitted from South Carolina
- "Well, we can give a drug, but we don't like to...we don't recommend it. It is very dangerous and there is a high likelihood of him getting even worse than he is, or even dying."

Submitted from California

 "Let me put it this way, I wouldn't give this drug to my dog."
 Submitted from Ohio

#### CLASSIFICATION OF SICH: RELIABILITY IN QUESTION...

- Official definitions support classification of sICH for most (86%) certified Stroke Centers, however the most common definition (48%) reported was, "any hemorrhage on non-contrast CT or MRI in combination with any clinical deterioration."
- Only 17% identified the contemporary definition for sICH
  - Among those that adhered to the contemporary definition, sICH rates were significantly lower at 3% ± 2.3% (median 3%; t=4.7; mean difference = 7.7; p<.0001, 95% CI 4.4-10.95), compared to 10.6% ± 17.5% (median 6%)

#### WHAT IS INFORMED CONSENT

- "Permission granted in the knowledge of the possible consequences, typically that which is given by a patient to a doctor for treatment with full knowledge of the possible risks and benefits."
- Consent is an act of reason
  - For consent to be valid, the person giving consent must be of sufficient mental capacity, must not be coerced or provided with fraudulent information, and must be in possession of <u>all essential information</u> (risks, benefits, alternatives)



DO THESE COMMENTS CONSTITUTE PROVISION OF "TRUTHFUL, FACTUAL" MATERIAL INFORMATION?

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### How do we obtain informed CONSENT IN OUR PATIENTS?

#### oKey message:

• IV-tPA is the only medication proven to reduce neurologic disability from acute ischemic stroke AT NO INCREASED RISK OF DEATH.

WHAT INFORMATION SHOULD BE DISCLOSED ABOUT IV-TPA IN THE INFORMED CONSENT PROCESS?

- o Large clinical trial outcomes:
  - NINDS rt-PA Study results used to support FDA drug approval in 1996
  - Effectiveness trial results of treatment within the 3 hour window
  - ECASS 3 Study results for treatment between 3-4.5
     hours
  - Limitations in relation to the subject and whether he/she mirrors study inclusions
- o Current site results and experience

## MANAGING PROVIDERS WITH UNETHICAL MESSAGING

- Know clinical trial findings; confront providers who message inappropriately (not in front of the patient)
- Inform superiors; have witnesses available to support you
- Chart in the medical record in quotations, EXACTLY what material information was provided, along with the patient or next of kin's refusal of treatment