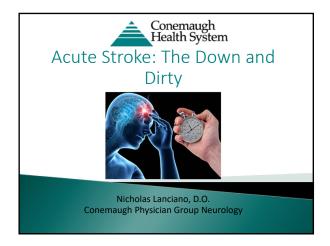
Nicholas J. Lanciano, DO



Disclosures • Current PI for the MaRISS study that is funded by the American Heart Association



Why does this matter?

Other than there will be a 17% shortage of neurologist by 2020



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Transient Ischemic Attack

- Temporary and "nonmarching" neurological deficit of sudden onset attributed to focal ischemia
- Last less then 24 hours with resolution of deficits
 - Most last 5 to 20 minutes
 - No imaging correlate
- 1/3 of patients will have a stroke in the next 5 years
- 1/10 will have a stroke within the next 3 months
- 50% of stroke associated with TIA occurred within 48 hours of TIA



Transient Ischemic Attack

- TIA Mimics
 - Seizures
 - Complicate Migraines / Reversible Cerebral Vasoconstriction Syndrome
 - Encephalopathy
 - REM Sleep behavior disorders
 - Transient Global Amnesia
- Early Onset Neurodegenerative Disorders
- 60% of referrals to neurology for TIA will not have a TIA as a final diagnosis
- ABCD2 Score



Stroke

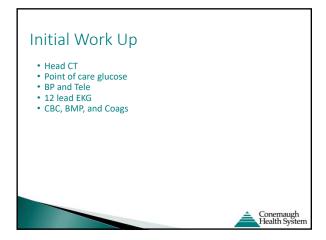
- 750,000 new or recurrent strokes annually in the US
- 80% are ischemic
 - 8-12% of ischemic stroke result in death within 30 days
 - Intracerebral hemorrhage (15%) and Subarachnoid hemorrhage (5%)
- 5th leading cause of morbidity and mortality
 - 30% require assistance with activities of daily living
 - 20% require assistance with ambulation
 - 16% need/require institutional care



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Presentation 75 y.o. F with right side weakness • Started 1 hour prior to presentation • Right arm, face, and difficulty speaking • History of HTN, HLD, and DM • Never smoker, no atrial fibrillation • Not on any blood thinners • Brother with history of stroke



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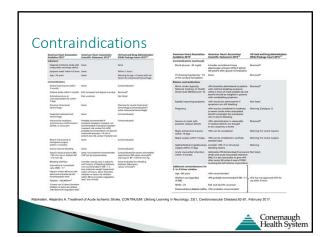


IV Thrombolytic Therapy

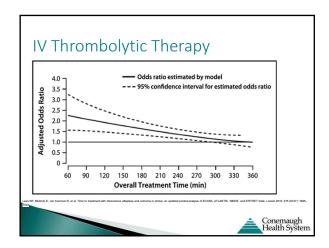
- Recombinant tissue plasminogen activator
- Alteplase
- FDA Approved for treatment of acute ischemic stroke for patients within 3 hours of onset of symptoms
- 0.9 mg/kg 10% given as a bolus over 1 minute 90% infused over 1 hour

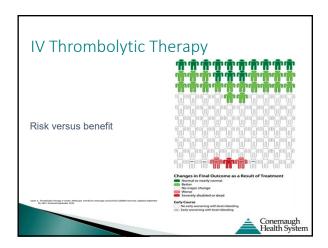
 - Not to exceed 90 mg

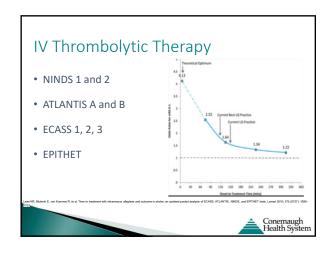


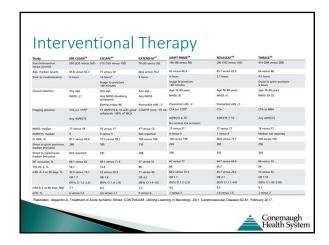


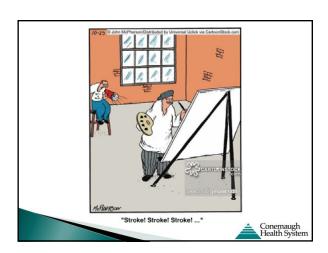
"Acute Stroke: The Down and Dirty" Nicholas J. Lanciano, DO





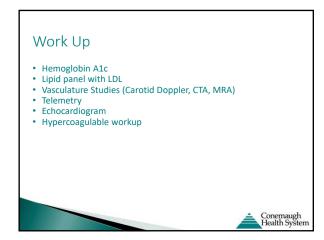


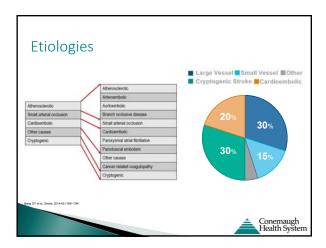




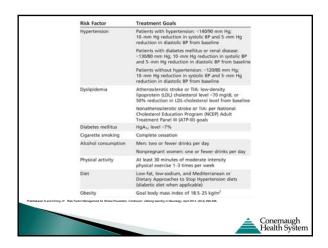
Inpatient admission
Admit to a stroke unit
Physical Therapy / Occupational Therapy / Speech Therapy
Swallow Evaluation
DVT Prophylaxis
Antiplatelet Therapy within 24 hours
Conemaugh Health System

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Large Vessel Atherosclerosis NASCET Results CREST Management of primary risk factors Systolic blood pressure: target < 100 mm Hg (<130 mm Hg if diabetic) Low-density lipoprotein cholesterol: target <70 mg/dL Management of secondary risk factors Diabetes mellitus: target hemoglobin A₁₁ < 7½ Non-high-density lipoprotein cholesterol: target <100 mg/dL Smoking cessation Excess weight: body mass index (BM) <25 kg/m² if the errollment BM is 25 kg/m² -27 kg/m² of 10% weight loss if the corollment BM is >25 kg/m² -27 kg/m² of 10% weight loss if the corollment BM is >27 kg/m² flourificient exercice moderate intensity exercise at least 3 times/wk for 30 min/session Courset 3 and Buddeduty P Leop Aory Athereshame Coold Biness, Valded Advery Diseas, and integrated Athereshame, Cooldan Likeling lawing in Nacistop, April 214, (25,735-354.





References - Barry O'rt et. Stroke 2014-55-118-1194. - Barret HVI, Taylor DW, Elbassion M, et al. Benefit of carolid endarterectomy in patients with symptomatic moderate or severe stemosis. North - Barret HVI, Taylor DW, Elbassion M, et al. Benefit of carolid endarterectomy in patients with symptomatic moderate or severe stemosis. North - Biller J, Love BB, Schneck MJ, Vascular Diseases of the Nervous System inchemic Cerebrosyscular Diseases. In: Bradley WG, Dardf BB, Fernicled G, - Islandovic Leit Barret System Structure Cerebrosyscular Diseases. In: Bradley WG, Dardf BB, Fernicled G, - Islandovic Leit BB, Sappoiss and Management of Transient Inchemic Astron. Compl. Native Diseases, and Intercarolial Atherosterosis. - Contribusom: Lifetory tearing in Neurology, April 2014. (2012) 123-238. - Contribusom: Lifetory tearing in Neurology, April 2014. (2012) 123-238. - Contribusom: Lifetory tearing in Neurology, April 2014. (2012) 123-238. - Contribusom: Lifetory tearing in Neurology, April 2014. (2012) 123-238. - Contribusom: Lifetory tearing in Neurology, April 2014. (2012) 123-238. - Contribusom: Lifetory tearing in Neurology, April 2014. (2012) 123-238. - Contribusom: Lifetory tearing in Neurology, April 2014. (2012) 123-238. - Contribusom: Lifetory tearing in Neurology, April 2014. (2012) 123-238. - Contribusom: Lifetory tearing in Neurology, 2014. (2012) 123-238. - Contribusom: Lifetory tearing in Neurology, 2014. - Lee SK, Bluhmin L, von Knimmer K, et al. Time to treatment with intravenous alterplace and doctories in stroke: an updated pooled analysis of uncontribusom in the neurology 2014. (2012) 206-208. - Lee SK, Bluhmin L,