# **Acute Ischemic Stroke – Patient Selection**

# **IV Thrombolytics Checklist**

# **Patient Selection Criteria**

🞏 Age 18 or over

🞏 Clinical Diagnosis of Ischemic Stroke with a measurable focal neurologic deficit **NIHSS**:

🞏 Time of “Last Known Well” (LKW) established less than 4.5 hours before treatment began. **LKW Date:** **LKW Time:**

*\*\*\*Unless facility has capacity and protocols in place for an extended IV tPA window based off of FLAIR DWI Mismatch per EXTEND-IA trial*

*(Class IIb evidence)\*\*\**

🞏 Disabling stroke symptoms 1

# **Contraindications**

*Do NOT administer IV Thrombolytics if the patient is positive for one or more of the following contraindications*

🞏 SBP > 185 or DBP is > than 110mmHG despite treatment 1, 2

🞏 Recent significant head trauma ( < 3 MO ) 1, 2

🞏 CT findings of ICH or SAH 1, 2

🞏 Use of thrombin inhibitors or direct factor Xa inhibitors in past 48 hours 1

🞏 Therapeutic dose of LMWH administered within the last 24 hours 1

🞏 CT findings with major infarct signs / hypoattenuation greater than 1/3 of cerebral hemisphere 1

🞏 Infectious endocarditis 1

🞏 Aortic arch dissection 1

🞏 GI malignancy or GI bleed within 21 days 1

🞏 Recent Intracranial or Spinal surgery ( < 3 MO ) 1, 2

# **Considerations**

*Benefit may outweigh risk,* ***relative contraindications*** *to consider with expert guidance*

🞏 Mild, non-disabling stroke 1

🞏 Care team unable to determine eligibility 1

🞏 Platelets < 100,000, PTT > 40 sec, INR > 1.7, PT > 15, or known bleeding diathesis should not be administered 1

🞏 Recent internal bleeding 1, 2

🞏 Presence of intracranial conditions that may increase risk of bleeding like a giant, unruptured/unsecured brain aneurysm (*greater than 10mm*), intracranial arterial dissection, intracranial vascular malformation and some brain neoplasms 1

🞏 Increased risk of bleeding due to co-morbid conditions (ex: hemorrhagic diabetic retinopathy, liver/renal disease) 1

🞏 Symptoms suggest subarachnoid hemorrhage 1

🞏 History of previous intracranial hemorrhage 1

🞏 History of ischemic stroke < than 3 months 1

🞏 Major surgery or serious trauma (< 14 days) 1,

🞏 Left heart thrombus 1

🞏 Life expectancy < 1 year or severe co-morbid conditions 1

🞏 Pregnancy and recent delivery 1

🞏 Recent Acute Myocardial Infarction (AMI) < 3 months 1

🞏 Recent lumber puncture (less than 7 days) 1

🞏 Arterial puncture of non-compressible blood vessel in previous 7 days 1

🞏 Cerebral Microbleeds > 10 1

🞏 Pericarditis 1

# **Other factors**

🞏 IV or IA Thrombolytics given at outside hospital

🞏 Patient/Family refused treatment

# **Citations:**

1. Powers, W., Rabinstein, A., Ackerson, T., Adeoye, O., et al. Guidelines for the Early Management of Patients with Acute Ischemic Stroke: 2019 Update to the 2018 Guidelines for the Early Management of Acute Ischemic Stroke. Stroke.2019;50: e344-e418.doi: 10.1161/STR.0000000000000211
2. Genentech (2018, February). Activase (alteplase) for Injection, for Intravenous Use: Highlights of Prescribing Information. Retrieved from

https://www.gene.com/download/pdf/activase\_prescribing.pdf