Inclusion and Exclusion Criteria for IV Thrombolytic Treatment of Ischemic Stroke

☐ High likelihood of left heart thrombus (e.g., mitral stenosis with atrial fibrillation)

☐ Blood glucose > 400 mg/dL (however should treat with IV alteplase if stroke symptoms persist after glucose normalized)



For consideration of eligibility within less than 4.5 hours of last known well, wake-up, or unknown time of onset:	
Date_	
INC	LUSION CRITERIA - Patient who should receive IV Thrombolytic
	Symptoms suggestive of ischemic stroke that are deemed to be disabling*, regardless of improvement (see Reference Table below for considered
_	disabling symptoms) A block initiate treatment within 4.5 hours of Time Lest Known Well (desument clock time)
	Able to initiate treatment within 4.5 hours of Time Last Known Well (document clock time)
	1 Age 18 years or older 1 WAKE-UP or unknown time of onset Acute Ischemic Stroke (If MRI Available)-IV alteplase administered within 4.5 hour of stroke symptom
_	recognition can be beneficial in patients with AIS who awake with stroke symptoms or have unknown time of onset>4.5 hour from last known well or at baseline state and who have a DW-MRI lesion smaller than one-third of MCA territory and no visible signal change on FLAIR. (COR lla; LOE B-R)
IV T	hrombolytic Medications
	IV Alteplase (0.9mg/kg, maximum dose 90mg over 60 minutes with initial 10% of dose given as bolus over 1 minute) is recommended for selected patients who can be treated within 3 and 4.5 hour of ischemic stroke symptom onset or patient last known well (COR I; LOE B-R)
	for IV fibrinolytics who are also eligible to undergo mechanical thrombectomy (COR lla; LOE B-R)
ΔRS	OLUTE EXCLUSION CRITERIA - If patient has any of these, do NOT initiate IV Thrombolytic
	1 CT scan demonstrating intracranial hemorrhage or subarachnoid hemorrhage
	CT exhibits extensive regions (> 1/3 MCA Territory on CT) of clear hypo attenuation
	1 Unable to maintain BP <185/110 despite aggressive antihypertensive treatment
	1 Ischemic stroke within last 3 months
	1 History of intracranial hemorrhage
	1 Severe head trauma within last 3 months
	1 Active internal bleeding (i.e., Aortic Dissection known or suspected)
	1 Arterial puncture at non-compressible site within last 7 days
	Infective endocarditis
	Gastrointestinal bleeding within last 21 days or structural GI malignancy
	1 Intracranial or spinal surgery within last 3 months aboratory:
	Blood glucose <50 mg/dL (however should treat if stroke symptoms persist after glucose normalized)
R	esults not required before treatment unless patient is on anticoagulant therapy or there is another reason to suspect an abnormality: NR > 1.7
	1 Platelet count <100,000, PT >15 sec, aPTT >40 sec **Tedications:***
	1 **Full dose low molecular weight heparin (LMWH) within last 24 hours (patients on prophylactic dose of LMWH should NOT be excluded)
	Received direct oral anticoagulant (DOAC) within last 48 hours (assuming normal renal metabolizing function) Commonly prescribed DOACs: apixaban (Eliquis), dabigatran (Pradaxa), rivaroxaban (Xarelto), edoxaban (Savaysa)
CON	NSIDERATION for EXCLUSION (RELATIVE) - Seek Neurology consultation from a Stroke Expert
	1 Stroke severity too mild (non-disabling)
	I IV or IA thrombolysis/thrombectomy at an outside hospital prior to arrival
	Life expectancy < 1 year or severe co-morbid illness or comfort measure only (CMO) on admission
	Programmy refusal
	1 Pregnancy 1 Major surgery or major trauma within 14 days
	Seizure at onset and postictal impairment without evidence of stroke
	1 Myocardial infarction within last 3 months
	Acute pericarditis
	1 Lumbar puncture within 7 days
	Past gastrointestinal or genitourinary bleeding
	1 Any other condition or history of bleeding diathesis which would pose significant bleeding risk to patient. Conditions may include acute pericarditis
	SBE (spontaneous bacterial endocarditis), hemostatic defects, diabetic hemorrhagic retinopathy, septic thrombophlebitis, occluded AV cannula, or patient is currently receiving oral anticoagulants (e.g., Warfarin or DOACS).
	Presence of known intracranial conditions that may increase risk of bleeding (arteriovenous malformation, aneurysms >10mm, intracranial
	neoplasm, amyloid angionathy)

*Considered disabling symptoms: should be considered for IV Thrombolytic treatment

Complete hemianopsia (* 2 on NIHSS question 3) or severe aphasia (* 2 on NIHSS question 9), or

Visual or sensory extinction (* 1 on NIHSS question 11) or

Any weakness limiting sustained effort against gravity (* 2 on NIHSS question 6 or 7) or

Any deficits that lead to a total NIHSS score >5 or

Any remaining symptoms considered potentially disabling in the view of the patient and the treating practitioner. i.e., Do presenting symptoms interfere with lifestyle (work, hobbies, entertainment?) Clinical judgment is required**

REFERENCE: 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: A Guideline for Healthcare Professionals From the American Heart Association/American Stroke Association Stroke Volume 50, Issue 12, December 2019, Pages e344-e418; 2018 Guidelines for the Early Management of Patients With Acute Ischemic Stroke A Guideline for Healthcare Professionals From the American Heart Association/American Stroke Association Stroke. 2018;49:e46–e99.

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^{**}Note: This is an example based on current best practices for hospitals to implement and operationalize. Specific criteria may vary by hospital.