



SIGNS /SYMPTOMS CONCERNING FOR STROKE

Use FASTER to evaluate for Stroke

- Facial droop Arm and/or leg weakness or tingling Stability-ataxia or coordination Talking-aphasia, inability to speak and/or comprehend • Eye/Vision abnormality • React
- Consider Stroke for any acute onset altered mental status or new onset focal seizure without a return to baseline

INCLUSIONS INITIAL PROVIDER ASSESSMENT ≥2 years of age Assess & document time of patient's last known normal History/Risk factors¹ • Physical assessment (reference NIH Stroke scale) GOALS: ¹RISK FACTORS Assess MRI eligibility • Time from Stroke Alert to Sickle Cell Disease • Safety (i.e. pacemaker, VAD, metal implants, dental Imaging Start: ≤45 mins Congenital Heart Disease hardware, etc...) **Previous Stroke** Assess need for sedation for imaging NOTE: Lack of risk factors does NOT exclude patients from following this Guideline Consult Neurology to ≥ 72 hours discuss plan-of-care since last seen No need for stroke alert normal? Activate Stroke Alert **LABS INTERVENTIONS** By Calling 5-7778 Manage ABCs CMP Cardio-Respiratory Monitoring CBC-Diff STROKE ALERT CALL TIER I Neuro checks w. vital signs DIC panel • Urine Pregnancy Test (for girls GOAL OF STROKE ALERT CALL: DETERMINE IMAGING PLAN² q30 min O₂ PRN to maintain SpO₂≥93% of reproductive age) & Drug Patient's Attending calls Transfer Center with Stroke Alert NPO Screen Transfer Center conferences in (in this order): • Place 20g IV in AC • Type & Screen Mon-Fri Sat-Sun Treat Hypoglycemia • CG8 Neurology Attending On Call Neurology Attending On Call • BG Target 60 - 150 mg/dl • Neuroradiologist On Call (7a-10p) Neuroradiologist On Call (7a-7p) • Radiologist On Call (10p-7a) Radiologist On Call (7p-7a) CT Technologist CT Technologist ²IMAGING GUIDANCE MRI Technologist (7a-7p only) • MRI Technologist (7a-7p only) PREFERRED (if immediately available): Neurology resident to assess MRI Brain (Acute Stroke Protocol) patient at the bedside within 30 Contraindications for MRI: mins and will determine need for Patient requires intubation and/or Stroke Neurologist involvement. Transfer center to send Voalte alert to the following departments/clinicians sedation to notify them that a patient is being worked up for Stroke: Patient does not pass MRI Safety • CT Team lead, CT Techs, Pharmacist(s), ED Charge RN, ED ANM, PICU Charge Screening RN, PICU Admitting, CICU Float/Call Attending, Hematology Attending On-ALTERNATE (if MRI contraindicated or Call, Neurology Resident on call, Stroke Neurologist, CICU Charge RN, Rapid Unavailable): Order CT Head w/o contrast Response Team, and the House Supervisor CTA Head and CTA Neck. • Cardiac patients to be admitted to CICU instead of PICU CT **MRI** Unavailable or Order MRI Brain (Acute CT Head w/o contrast CTA Head & CTA Neck² Contraindications Stroke Protocol)2 resent²? Radiologist to notify on-call Neurology Attending of results Neurology Attending to call patient's Attending with Results

ACUTE ISCHEMIC STROKE

- Alert Hematology
- Alert CICU Attending (for Cardiac patients) or PICU Admitting (for non-Cardiac patients)
- Neurology to assess tPA eligibility
- If tPA candidate, activate Massive Transfusion Protocol.
- Patient's Attending to collaborate with Hematology and Neurology to determine treatment plan.

HEMORRHAGIC STROKE

- Alert Hematology
- Alert Neurosurgery
- Patient's Attending to collaborate with Hematology, Neurosurgery, and Neurology to determine treatment plan

NEGATIVE FOR STROKE

- Consider common Stroke mimics:
 - Migraine
 - Focal seizure with Todd's paralysis
 - Meningitis
 - Encephalitis
 - Demyelinating Disorder
 - Brain tumor

Clinical Practice Guideline for Suspected Stroke: tPA Assessment FINAL 10/14/21 Scottish Rite and Egleston Only UPDATED 06/06/22 Page 2 of 2



Exclusion Criteria for tPA therapy - patient must have NO answered for ALL	Voc	No
criteria, if ANY Question is "YES", further assessment is required before tPA.	Yes	No
Patient received IV tPA at referring hospital		
Intracranial hemorrhage of any type seen on neuroimaging (including parachymal,		
subarachnoid, other)		
Clinical presentation suggestive of subarachnoid hemorrhage or arotic arch dissection		
Neuroimaging supports multilobar involvement or large volume infarct involving >1/3 of		
a complete arterial territory		
Head trauma, intracranial or spinal surgery, or prior stroke in the previous 3 months		
History of previous intracranial hemorrhage, cerebral AVM, aneurysm, neoplasm, or		
dissection		
Previous diagnosis of vasculitis of the CNS. Focal cerebral arteriopathy of childhood		
(FCA) is NOT a contraindication. Persistent systolic blood pressure >15% over the 95 th percentile ?1hr and unresponsive		
to treatment; OR systolic BP ?20% over the 95 th percentile at any time		
Myocardial infarction in the previous 3 months. Clinical presentation consistent with		
acute MI or post-MI pericarditis that requires evaluation by cardiology prior to		
treatment.		
Evidence of active bleeding or acute trauma (fracture) on examination		
Internal bleeding, GI, or urinary tract hemorrhage in the previous 21 days		
Major surgery, major trauma not involving the head, or parenchymal biopsy in the		
previous 14 days		
Arterial puncture at a noncompressible site or lumbar puncture in the previous 7 days		
(Patients who have had a cardiac catheterization via a compressible artery are NOT		
excluded)		
Known current malignancy and/or within 1 month of completion of treatment for cancer		
Pregnant		
Stroke associated with any of the following: intracranial arterial dissection;		
endocarditis; moyamoya; sickle cell disease; CNS vasculitis; meningitis; bone marrow,		
air, or fat embolism		
Anticoagulation Issues:		
- Platelets <100,000		
- INR >1.4, PT >15s, or apTT >38s		
- Current anticoagulation use (warfarin or heparin) and abnormal INR >1.4, PT <15s,		
aPTT >38s		
- Full treatment LMWH within last 24h (does not include prophylactic dose		
- Current use of direct thrombin or direct xa inhibitors within the last 48h (Rivaroxaban,		
Apixaban, Dabigatran, Argatroban, Bivalirudin)		
- Bleeding diathesis		
Blood Glucose concentration is < 50mg/dl or >400mg/dL (ok if it can be corrected and		
exam reassessment unchanged)		
Allergy to tPA		
Patient will refuse blood transfusion if indicated		
Patient and family refuse to sign consent based on known risks and benefits of		
treatment of stroke with IV tPA		

Eligibility Determined

Patient must have NO answered for ALL criteria, if ANY Question is "YES", tPA is contraindicated
UNTIL further assessment is completed.