EMERGENCY DEPARTMENT HIGH RISK TIA / STROKE

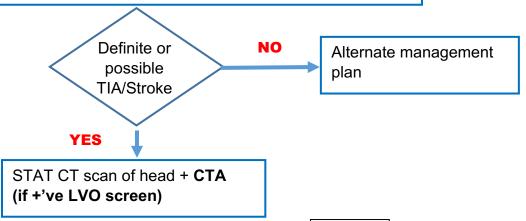
EARLY RECOGNITION

SUDDEN Onset of

- Unilateral weakness affecting
 - o face, arm and and/or leg
- Unilateral decrease sensation
 - o Face, arm and/or leg
- Speech dysfunction
 - o Word finding difficulty, garbled speech, mute, impaired comprehension
- Monocular visual loss or hemianopia



- Establish Last Seen Normal time and time symptoms were discovered
- Clinical assessment History (including medications), BP, NIHSS, LVO



EARLY TREATMENT

TIA or Minor stroke

Resolving or mild symptoms (NIHSS < 5) and CT scan negative for hemorrhage

- Initiate appropriate antithrombotic-(Dual Antiplatelet or Anticoagulant if no contraindications)
- Refer to Stroke Prevention Clinic
- Consider admitting if patient has crescendo TIAs* or > 50% stenosis on carotid U/S on symptomatic side

*Crescendo TIAs = Multiple TIAs with increase duration and severity

Last Seen Normal < 4.5 hrs

- NIHSS ≥ 5 (or marked speech deficit)
- No Exclusion Criteria for thrombolysis
- If patient on warfarin do INR and aPTT
- Confirm absence of intracerebral hemorrhage

CONSIDER THROMBOLYSIS and ...

 Call THPs' Stroke Team via CritiCall

NOTES

Last Seen Normal 4.5 - 12 hrs

- NIHSS ≥ 5 (or marked speech deficit)
- Confirm absence of intracerebral hemorrhage
- CTA if LVO Screening ≥ 4 *
- CT ASPECT score > 5
- *Georgetown off hours only need a
 +'ve LVO Screening activate call

CONSIDER EVT

 Call THPs' Stroke Team via CritiCall

Initial Work-Up

- ECG
- CT / CTA
 - (CTA if +'ve LVO Screen)
- Blood work
 - o aPTT/INR
 - CBC incl platelets
 - Electrolytes
 - o Glucose
 - Renal function

Stroke Mimics

- Seizures
- Migraine
- Low or High Blood Sugar
- Bell's Palsy
- Sepsis and other Infections (UTI)

tPA Exclusion Criteria

- Patient on **NOAC** or **DOAC**
 - Rivaroxaban, Apixaban, Dabigatran, Edoxaban)
- Persistent Blood Pressure Elevation
 - o Systolic ≥ 185 mmHg or
 - O Diastolic ≥ 110 mmHg
- Blood work:
 - Blood Glucose < 2.7 mmol/L or > 22.2 mmol/L
 - o INR > 1.7
 - o aPTT > 40 seconds
 - o Platelets < 100 x109/L
- Significant head trauma or prior stroke in the previous 3 months
- Signs of blood on CT scan
- History of previous intracranial hemorrhage
- Intracranial neoplasm or AVM
- Major surgery in previous 14 days (relative)
- Active bleeding

https://www.strokebestpractices.ca/

NIH Stroke Scale

(Use information from prior testing to identify neglect or double

	Category	Score/Description		
1a.	Level of Consciousness (Alert, drowsy, etc.)	0 = Alert 1 = Drowsy 2 = Stuporous 3 = Coma		
1b.	LOC Questions (Month, age)	0 = Answers both correctly 1 = Answers one correctly 2 = Incorrect		
1c.	LOC Commands (Open/close eyes, make fistlet go)	0 = Obeys both correctly 1 = Obeys one correctly 2 = Incorrect		
2.	Best Gaze (Eyes open - patient follows examiner's finger or face)	0 = Normal 1 = Partial gaze palsy 2 = Forced deviation		
3.	Visual Fields (Introduce visual stimulus/threat to pt's visual field quadrants)	0 = No visual loss 1 = Partial Hemianopia 2 = Complete Hemianopia 3 = Bilateral Hemianopia (Blin	anopia emianopia	
4.	Facial Paresis (Show teeth, raise eyebrows and squeeze eyes shut)	0 = Normal 1 = Minor 2 = Partial 3 = Complete	mal or ial	
	Motor Arm - Left Motor Arm - Right (Elevate arm to 90° if patient is	0 = No drift 1 = Drift 2 = Can't resist gravity 3 = No effort against gravity	Left	
	sitting, 45° if supine)	4 = No movement X = Untestable (Joint fusion or limb amp)	Right	
	Motor Leg - Left Motor Leg - Right	0 = No drift 1 = Drift 2 = Can't resist gravity	Left	
	(Elevate leg 30° with patient supine)	3 = No effort against gravity 4 = No movement X = Untestable (Joint fusion or limb amp)	Right	
7.	Limb Ataxia (Finger-nose, heel down shin)	0 = No ataxia 1 = Present in one limb 2 = Present in two limbs	one limb	
8.	Sensory (Pin prick to face, arm, trunk, and leg - compare side to side)	0 = Normal 1 = Partial loss 2 = Severe loss		
9.	Best Language (Name item, describe a picture and read sentences)	0 = No aphasia 1 = Mild to moderate aphasia 2 = Severe aphasia 3 = Mute		
10.	Dysarthria (Evaluate speech clarity by patient repeating listed words)	0 = Normal articulation 1 = Mild to moderate sluming of words 2 = Near to unintelligable or worse X = Intubated or other physical barrier		

TOTAL SCORE

FAST ED Scale

ITEM	FAST-ED Score
Facial palsy	
Normal or minor paralysis	0
Partial or complete paralysis	1
Arm weakness	
No drift	0
Drift or some effort against gravity	1
No effort against gravity or no movement	2
Speech changes	
Absent	0
Mild to Moderate	1
Severe, global aphasia or mute	2
Eye Deviation	
Absent	0
Partial	1
Forced deviation	2
Denial / Neglect	
Absent	. 0
Extinction to bilateral simultaneous in only one sensory modality	1
Does not recognize own hand or orients	2
only to one side of the body	
Score 0 or 1: < 15% = Negative	
Score 2 or 3: < 30% = Negative	

"The FASTED is available to download on your Apple or Android device"

