

IV Alteplase if Last Known Well
is <4.5 hours
Consider mechanical
thrombectomy for wake up
stroke or large vessel occlusion
<24 hours from LTKW

Signs and Symptoms of Large Vessel Occlusion NIHSS score >6 or RACE >4 Gaze Deviation Hemi-neglect Aphasia Hemi-paralysis

> Labs to consider: CBC PT/PTT/INR CMP Troponin

## IV Alteplase

0.9 mg/kg (max dose: 90mg) Give 10% of total dose as bolus over one minute Administer remainder over one

iour

VS/Neuro assessment Q15min x 2 hours Q30 min x 6 hours

Q1hour x 16 hours





Glasgow Coma Scale

Clasgow Coma Scale	
GCS 3 - 4:	2 points
GCS 5 - 12:	1 point
GCS 13 - 15:	0 points

ı	Intracerebra	I hematoma	(ICH)	volume

ICH ≥ 30cm <sup>3</sup> :	1 point
ICH < 30cm <sup>3</sup> :	0 points

Intraventricular hemorrhage

Yes:	1 point
No:	0 points

Infratentorial origin of ICH

minateriterial engin er lett	
Yes:	1 point
No:	0 points



Age		
≥ 80 ye	ears:	1 point
< 80 ye	ears:	0 points
Tatal Car		
Total Sco	ore:	
Interpret	ation	
30-day r	nortality increases as the (	summed) ICH
score in	creases:	
•	ICH Score 0: no mortality	,
•	ICH Score 1: 13%	
•	ICH Score 2: 26%	
•	ICH Score 3: 72%	
•	ICH Score 4: 97%	
•	ICH Score 5: 100%	

	Instruction	Result	Score
Item	IIISUUCIIOII	Result	Score
Facial Palsy	"show your teeth"	Absent	0
		Mild	1
		Moderate to Severe	2
Arm Motor	Extending arms 90°/hold	Normal to Mild- no drift	0
Function	10sec (may raise both arms	Moderate drift in < 10 sec	1
	at same time, pronator drift	Severe- no effort to raise arm	2
Leg Motor	Extending/holding leg 30° for	Normal to Mild- no drift	0
Function	5 seconds (one at a time)	Moderate drift in < 5 sec	1
		Severe- no effort to raise leg	2
Head & gaze	Is head & gaze deviation	Absent	0
deviation	present?	Present (head & gaze deviation to	1
		one side)	
Aphasia	Difficulty following 2	Normal- performs both tasks	0
(Right side	commands :close your eyes,	correctly	1
hemiparesis)	make a fist) Do not prompt	Moderate- performs only 1 task	2
	with visual cues	correctly	
		Severe- cannot perform either task	
	0		
Do not score for both aphasia AND agnosia- score for only one of these elements			
Agnosia	Inability to recognize familiar objects	Normal- recognizes arm and attempts to	0
(Left side	"whose arm is this? Can you move	move it	1
hemiparesis)	your arm?"	Moderate-does not recognize <b>OR</b> is	2
		unaware of arm	
		Severe- does not recognize <b>AND</b> is unaware of arm	

RACE score  $\geq$  5 indicative of Large Vessel Occlusion  $\rightarrow$  consider Mechanical Thrombectomy





## **Hemostasis and Coagulopathy Recommendations**

Door to Treatment 90 minutes (2018 Recommendations)

## Do not delay transfer to administer these treatments

- 1. Patients with severe coagulation factor deficiency or severe thrombocytopenia should receive appropriate factor replacement therapy.
- 2. Confer with receiving hospital provider about treatments prior to transfer and possible delays in transfer.
- 3. Consider reversal options if available:
  - a. Elevated INR due to vitamin K antagonist (Warfarin) consider:
    - i. **4PCC (KCentra) recommended:** INR 1.8-3.9: 25 units/Kg (max. 2500 units), INR 4-6: 35 units/kg (max 3500 units), INR >6: 50 units/Kg (max. 5000 units).
    - ii. **IV vitamin K:** recommended dose is 5 to 10 mg. The effect takes 12 24 hours.
    - iii. Fresh Frozen Plasma (FFP): dose will depend on INR. Several units might be needed. A practical formula is 1-2 units up to 20 ml/Kg. May repeat every 6-12 hours.
  - b. For patients with ICH with history of using dabigatran, rivaroxaban, or apixaban treatment
    - i. Pradaxa:
      - Idarucizumab (Praxbind): recommended dose in 5g IV x 1 either bolus or infusion.
    - ii. Apixaban/Rivaroxaban:
      - Andexxa: dosing will depend on patient's current apixaban or rivaroxaban dose
      - Low dose: 400 mg IV bolus ~ 30 mg/min followed by an IV infusion of 4 mg/min up to 120 minutes (low dose is Apixaban ≤ 5mg / Rivaroxaban ≤ 10 mg)
      - High dose: 800 mg IV bolus followed by an IV infusion of 8 mg/min up to 120 minutes (high dose: Apixaban > 5mg / Rivaroxaban > 10 mg or unknown dose)
    - iii. Consider 4PCC (Kcentra) 50 units/Kg (max. 5000 units).

## Seizures and Anti-convulsant treatment:

- 1. Prophylactic anti-convulsant medication is not recommended
- 2. Clinical seizures should be treated with anti-convulsant drugs.
- 3. Options for anti-convulsant medications
  - a. Levetiracetam (Keppra) 40 60 mg/Kg IV x 1
  - b. Fosphenytoin 20 mg/Kg x 1 (maximum 1500 mg)