



Montana Stroke Initiative Acute Ischemic Stroke Orders

ED Protocol for Patients Presenting Between 3 and 4.5 hours

Note: Treatment should be given within 60 min. from presentation and not exceed the 4.5 hrs from onset time

Patient Name: _____ MR# _____ Date: ____/____/____

Mode of Transport: Private Vehicle EMS Prehospital Screen Used

Times: Symptom Onset or Last Seen Normal: _____

Arrival to Emergency Department: _____

Initiate the following orders:

- ___ Neurologic Exam now and q30 minutes with NIH Stroke Scale
- ___ Vital signs now and q15 minutes: baseline temperature
- ___ Cardiac Monitor
- ___ O2 per NC or Mask to keep O2 sat >92%
- ___ STAT Head CT no contrast
- ___ Two (2) IVs: 18 gauge saline lock
20 gauge – Start 0.9 NS @ 75 cc/hr
- ___ STAT CBC, BMP, PT/PTT, INR
- ___ STAT finger stick blood glucose if not already done _____
- ___ STAT EKG
- ___ Accurate weight in Kg. _____
- ___ NPO
- ___ Foley catheter if severely impaired
- ___ No heparin, aspirin, or coumadin

BP Management If >185/110 on two separate measurements 15 min. apart

For t-PA Patients ___ Give Nitropaste 1” to chest/back. If no affect in 15 min

Only* ___ Give Labetalol 10 mg IV/1 min. Hold if HR <50. If no effect

___ Give Labetalol 20 mg IV/1 min. Hold if HR <50

Note: If BP not easily controlled with above steps exclude patient from consideration

***Allow BP 220/120 for Non-treatment Candidates**

Labs: If Patient taking warfarin wait for INR before continuing. Patient may be considered for thrombolysis if INR \leq 1.7.

Continue to page 2 for Exclusion Criteria for tPA (Alteplase) ----->

Date: ____/____/____ Time: _____ Physician Signature _____



Exclusion Criteria: If any of the following apply, STOP

- Age >80
- Combination of previous stroke AND diabetes mellitus
- NIHSS > 25
- CT head with > 1/3 MCA territory NEW hypodensity (In appropriate region for patient's symptoms)
- Time of symptom onset unknown
- CT Brain with any hemorrhage
- BP >185/110 at time of treatment
- Minor symptoms or Rapidly improving symptoms with NIHSS < 4
- Clinical history suggestive of subarachnoid hemorrhage even with normal CT
- INR >1.7 or receiving heparin **with** elevated PTT (Note: patients receiving heparin but have a normal PTT prior to treatment may still be considered eligible candidates)
- Seizure at onset
- Platelets <100K
- History of any of the following:
 - Intracranial hemorrhage/Neoplasm/AVM
 - Major surgery in <14 days
 - Stroke or serious head trauma in last 3 months
 - Arterial puncture at non-compressible site < 7 days
 - GI or GU hemorrhage in last 21 days
 - Lumbar puncture in past 24hrs
 - Recent MI (< 3 wks) w/ or w/o presumed pericarditis
- Glucose <50 or >400
- Presumed septic embolus

If patient meets all criteria for thrombolysis for acute ischemic stroke call Neurologist.

Administration of IV tPA

NOTE: Maximum dose is 90mg (see dosing table next page)
Do not use Cardiac Dose
Do not give ASA, Heparin

Patient weight _____ (kg)

Total dose = 0.9 mg/kg X _____ (weight) = _____ mg

Give 10% of total _____mg over 1 minute Time given _____

Give 90% of total _____mg over 1 hour Time given _____

Continue to monitor vitals and neurologic exam q15 minutes.

Suspect Intracranial hemorrhage if acute worsening, new severe headache or acute hypertension or sudden nausea with vomiting.

Date: _____/_____/_____ **Time:** _____ **Physician Signature** _____



Montana Stroke Initiative Modified NIH Stroke Scale

Item Name	Scoring Guide	Patient Score
LOC Questions 1. Age 2. Name	0=Answers both correctly 1=Answers one correctly 2=Answers neither correctly	
LOC Commands 1. Open and close eyes 2. Open and close hand	0=Performs both correctly 1=Performs one correctly 2=Performs neither correctly	
Gaze	0=normal 1=partial gaze palsy 2=total gaze palsy	
Visual Field Cut (homonymous)	0=no visual loss 1=partial field cut 2=complete field cut 3=no vision	
Left Arm Motor	0=no drift 1=drift before 10 seconds 2=falls before 10 seconds 3=no effort against gravity 4=no movement	
Right Arm Motor	0=no drift 1=drift before 10 seconds 2=falls before 10 seconds 3=no effort against gravity 4=no movement	
Left Leg Motor	0=no drift 1=drift before 5 seconds 2=falls before 5 seconds 3=no effort against gravity 4=no movement	
Right Leg Motor	0=no drift 1=drift before 5 seconds 2=falls before 5 seconds 3=no effort against gravity 4=no movement	
Sensory	0=normal 1=abnormal	
Language	0=normal 1=mild aphasia 2=severe aphasia 3=mute or global aphasia	
Neglect	0=normal 1=mild 2=severe	

Total Score (out of 31) _____



Montana Stroke Initiative

tPA Dosing Guidelines

Weight in lbs	Conversion to kg	Total IV t-PA dose (mg) at 0.9mg/kg	t-PA bolus (mg) 10% of total	t-PA bolus (ml)	Discard dose t-PA (not for infusion)	Infusion dose (mg)	Infusion rate (ml/hr)
220+	100	90	9	9	10	81	81
210	95.5	85.9	8.6	8.6	14.1	77.3	77.3
200	90.9	81.8	8.2	8.2	18.2	73.6	73.6
190	86.4	77.7	7.8	7.8	22.3	70	70
180	81.8	73.6	7.4	7.4	26.4	66.3	66.3
170	77.3	69.5	7	7	30.5	62.6	62.6
160	72.7	65.5	6.5	6.5	34.5	58.9	58.9
150	68.2	61.4	6.1	6.1	38.6	55.2	55.2
140	63.6	57.3	5.7	5.7	42.7	51.5	51.5
130	59.1	53.2	5.3	5.3	46.8	47.9	47.9
120	54.5	49.1	4.9	4.9	50.9	44.2	44.2
110	50	45	4.5	4.5	55	40.5	40.5
100	45.5	40.9	4.1	4.1	59.1	36.8	36.8