Conway Medical Center

PHYSICIAN'S ORDERS

Thrombolysis/Stroke

Emergency Department/ ICU

Center Patient Admission Label Here

| t-PA Non-Hemorrhagic Stroke Protoco | t-PA | Non-He | emorrha | gic Stro | oke Pi | rotoco |
|-------------------------------------|------|--------|---------|----------|--------|--------|
|-------------------------------------|------|--------|---------|----------|--------|--------|

| A. Inclusion C | riteria: |
|----------------|---|
| = - | sis of ischemic stroke causing measurable neurological deficit |
| _ | f symptoms less than 3 hours before treatment begins |
| Age ≥ 1 | · |
| | EACH program patients, a longer interval may be considered, less than or equal to 4.5 hours, at the discretion of |
| · | er. Intra-arterial t-PA may be considered in cases with onset of symptoms greater than 4.5 hours or less than 6 |
| | re beginning treatment. |
| B. Exclusion C | |
| _ | nt head trauma or prior stroke in the previous 3 mo. |
| — · · | ns suggest SAH |
| _ | ouncture in non-compressible site in previous 7 days |
| = ' | of previous intracranial hemorrhage |
| _ | nial neoplasm, AVM, or aneurysm ntracranial or intraspinal surgery |
| = | blood pressure (systolic greater than 185 mmHg or diastolic greater than 110 mmHg) |
| = | ternal bleeding |
| = | eeding diathesis, including not limited to |
| | count less than 100000/mm |
| | received within 48 h resulting in abnormally elevated aPTT above the upper limit of normal |
| | use of anticoagulant with INR greater than 1.7 or PT greater than 15 s |
| | use of direct thrombin inhibitors or direct factor Xa inhibitors with elevated sensitive laboratory tests (eg, aPTT, elet count, ECT, TT, or appropriate factor Xa activity assays) |
| _ | ucose concentration less than 50 mg/dL (2.7 mmol/L) |
| | instrates multilobar infarction (hypodensity greater than 1/3 cerebral hemisphere) |
| C. Relative ex | clusion criteria: |
| | rience suggests that under some circumstances, with careful consideration and weighing of risks to benefit, |
| | y receive fibrinolytic therapy despite one or more relative contraindications. Consider risk to benefit of |
| • | rtPA administration carefully if any of these relative contraindications is present |
| Only mir | or or rapidly improving stroke symptoms (clearing spontaneously) |
| Pregnan | су |
| Seizure a | t onset with postictal residual neurological impairments |
| _ | rgery or serious trauma within previous 14 days |
| | astroinestinal or urinary tract hemorrhage (within previous 21 days) |
| _ | cute myocardial infarction (within previous 3 mo) |
| | Cooperative Acute Stroke Study 3 (treatment for 3 to 4.5 hours) additionally excluded patients \geq 80 years old with |
| | of previous stroke and DM or NIHSS score greater than 25. If t-PA is given in cases within onset of symptoms in 3 s, these criteria are not applicable *ECASS 3 = Trial to increase t-PA administration window |
| | s, these criteria are not applicable. ECA33.3 – That to increase t-PA administration window |
| Decision: | |
| Patient do | es NOT meet criteria for t-PA Patient meets criteria for t-PA (see drug administration order) |
| Notes: - Refer | to MUSC Tele stroke Neurology |
| | ludes some FDA-approved indications and contraindications for administration of intravenous rtPA for acute ischemic stroke. Recent |
| _ | ns have modified the original FDA-approved indications. A physician with expertise in acute stroke care may modify this list. |
| | fined as either the witnessed onset of sym0ptoms or the time last known normal if symptoms onset was not witnessed. |
| | out recent use of OACs or heparin, treatment with intravenous rtPA can be initiated before availability of coagulation test results but tinued if INR is greater than 1.7 or PT is abnormally elevated by local laboratory standards. |
| | out a history of thrombocytopenia, treatment with intravenous rtPA can be initiated before availability of platelet count but should |
| | if platelet count is less than 100000/mm |
| Physician | |
| Signature | Date Time |
| | |

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Thrombolysis/Stroke

Emergency Department/ ICU

Center Patient Admission Label Here

| Record time of stroke onset (last time patient seen without stroke symptoms) Date: Time: Unknown |
|--|
| CT BRAIN ATTACK without contrast STAT |
| NIHSS scale (upon arrival) |
| STAT LAB: PT/PTT, CBC, BEDSIDE GLUCOSE (may use EMS result if available), CMP, TROPONIN (For women of childbearing years w/o hysterectomy do UHCG) Call radiologist: There is a STAT READING of a Head CT. Indication: acute CVA and thrombolytic administration |
| Saline Lock (two 18g IV sites if tPA candidate) |
| Pulse Oximetry, Cardiac and Blood Pressure monitor |
| ☐ Place on Oxygen at 2 liters: maintain saturation at 94% or greater |
| ☐ EKG STAT |
| ☐ NPO including medications until bedside swallow screen complete |
| NIHSS scale (prior to tPA) |
| tPA Should not be used if symptoms are nearing baseline on repeat assessment or clearing spontaneously |
| Prior to tPA being given: 🔀 2 IV sites in place. (If unable to obtain consider central line placement prior to tPA) |
| DO NOT EXCEED 90 MG tPA |
| DO NOT ADMINISTER IF PAST THIS TIME: (3 - 4.5 hrs. post onset) (refer to MUSC Tele stroke) |
| TPA: Administer 0.9 mg/kg; mix as 1mg/ml: 10% over 1 minute then administer the remaining 90% over 1 hour. |
| Total Dose - WT/kg X 0.9 = |
| Waste Dose |
| Bolus Dose - 0.1X = |
| |
| Continuous infusion - 0.9 X = 2 RN verifications |
| Continuous infusion - 0.9 X = 2 RN verifications/ |
| |
| IV tPA Blood Pressure Management Guidelines |
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Emergency Department/ICU

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| When to stop IV tPA Infusion |
|---|
| Angioedema – Signs and symptoms include swelling around the mouth, throat, or tongue. Itchy skinn, hives or increased |
| respiratory effort. |

☐ Give Solu-medrol 125 mg and Benadryl 25 mg IV NOW

Sudden headache

Nausea and vomiting

Significant blood pressure change (hypotensive or hypertensive)

Sudden neurologic deterioration

☐ Do not restart tPA

| PHYSICIAN | Date / / Time | |
|-----------|---------------|---|
| SIGNATURE | | _ |

Conway Medical Center

PHYSICIAN'S ORDERS

Thrombolysis/Stroke

Emergency Department/ICU

Center Patient Admission Label Here

NIH Stroke Scale

| DATE: | | SIGNATURE: | | TOTAL: | | | | | |
|--|-----------------|------------------------------|------|-----------------|--|------------------------------------|-------------------|---|--|
| TIME: | | | | | 6a. Left Leg: Motor (5-second hold- | No drift | | 0 | |
| 1a. Level of Consciousness (LOC) | Alert | | 0 | | always test supine) | Drift | | 1 | |
| | Not / | Alert | 1 | | | Drift, some effort against gravity | | 2 | |
| No | | Alert, obtunded | 2 | | | No effort | against gravity | 3 | |
| | Unresponsiv | | 3 | | | No move | ment | 4 | |
| 1b. Level of Consciousness (LOC) | Both | l | 0 | | 1 | Amputation, joint fusion | | 9 | |
| (Year & age) | One | | 1 | | 6b. Right Let: Motor (5-second hold- | No drift | | 0 | |
| | Neith | Neither | | | always test supine) | Drift | | 1 | |
| 1c. LOC Commands (Open & Closes Eyes/grip) | Both | | 0 | | | Drift, son gravity | ne effort against | 2 | |
| | One | One | | | | No effort against gravity | | 3 | |
| | Neith | her | 2 | | | No move | No movement | | |
| 2. Best Gaze (Lateral Gaze Paresis) | Norn | nal | 0 | | 1 | Amputation, joint fusion | | 9 | |
| | Parti | al gaze palsy | 1 | | 7. Limb Ataxia (finger/nose & | Absent | | 0 | |
| | Force | ed Deviation | 2 | | heel/shine – test with eyes open | Present in one limb | | 1 | |
| 3. Visual Field Loss | No v | isual loss | 0 | | 1 | Present in two limbs | | 2 | |
| | Parti | al Hemianopia | | | | Amputati | on, joint fusion | 9 | |
| | Com | plete hemianopia | 2 | | 8. Sensory Loss (pinprick | Normal | | 0 | |
| | | eral hemianopia | 3 | arms/legs/face) | | Mild to moderate loss | | 1 | |
| 4. Facial Palsy | Norn | mal | 0 | |] | Severe to | total loss | 2 | |
| | Mino | or Paralysis | 1 | | | | | | |
| | Parti | al Paralysis | 2 | | 9. Best Language: Aphasia | No aphas | ia | 0 | |
| | Com | plete Paralysis | 3 | | (description/naming/reading) | Mild to m | oderate aphasia | 1 | |
| 5a. Left Arm: Motor (10-second | No d | rift | 0 | |] | Severe ap | hasia | 2 | |
| hold) | Drift | | 1 | | | Mute, glo | bal aphasia | 3 | |
| | Drift, gravi | , some effort against ity | 2 | | 10. Dysarthria (speech clarity – read or repeat words) | Normal | | 0 | |
| | No e | ffort against gravity | 3 | | | Mild to m | oderate | 1 | |
| | No m | novement | 4 | | | Severe | | 2 | |
| | Amp | utation, joint fusion | 9 | | | Intubated | d, other | 9 | |
| 5b. Right Arm: Motor (10-second | No d | rift | 0 | | 11. Extinction and Inattention | No abnor | mality | 0 | |
| hold) | Drift | | 1 | | (visual/tactile/auditory/spatial/pers onal) | Present | | 1 | |
| | Drift, gravi | , some effort against ity | 2 | | Citaly | Profound | | 2 | |
| | No e | ffort against gravity | 3 | | | | | | |
| | No m | novement | 4 | | | | | | |
| | Amp | utation, joint fusion | 9 | | | | | | |
| | • | Note | unte | stable ar | eas in progress notes | | | | |

Alteplase (Activase) Dosing and Administration

Alteplase (Activase) 50 mg vial (patients weighing up to 122 lbs or 55.5 kg)

| Weight | | Total Dose | Discard Qty | Bolus Dose | Infusion Dose | |
|--------|------|------------|-------------|--------------|---------------|--|
| (lb) | (kg) | | | (over 1 min) | (over 60 min) | |
| 90 | 40.9 | 36.8 | 13.2 | 3.7 | 33.1 | |
| 92 | 41.8 | 37.6 | 12.4 | 3.8 | 33.8 | |
| 94 | 42.7 | 38.4 | 11.6 | 3.8 | 34.6 | |
| 96 | 43.6 | 39.2 | 10.8 | 3.9 | 35.3 | |
| 98 | 44.5 | 40.1 | 9.9 | 4.0 | 36.1 | |
| 100 | 45.5 | 41.0 | 9.0 | 4.1 | 36.9 | |
| 102 | 46.4 | 41.8 | 8.2 | 4.2 | 37.6 | |
| 104 | 47.3 | 42.6 | 7.4 | 4.3 | 38.3 | |
| 106 | 48.2 | 43.4 | 6.6 | 4.3 | 39.1 | |
| 108 | 49.1 | 44.2 | 5.8 | 4.4 | 39.8 | |
| 110 | 50.0 | 45.0 | 5.0 | 4.5 | 40.5 | |
| 112 | 50.9 | 45.8 | 4.2 | 4.6 | 41.2 | |
| 114 | 51.8 | 46.6 | 3.4 | 4.7 | 41.9 | |
| 116 | 52.7 | 47.4 | 2.6 | 4.7 | 42.7 | |
| 118 | 53.6 | 48.2 | 1.8 | 4.8 | 43.4 | |
| 120 | 54.6 | 49.1 | 0.9 | 4.9 | 44.2 | |
| 122 | 55.5 | 50.0 | 0 | 5.0 | 45.0 | |

Alteplase (Activase) 100 mg vial dosing chart starts on the following page

Alteplase (Activase) 100 mg vial (patients weighing greater than 122 lbs or 55.5 kg)

| Weight | | Total Dose | Discard Qty | Bolus Dose | Infusion Dose | | |
|-----------------|--------|------------|-------------|--------------|---------------|--|--|
| (lb) | (kg) | | | (over 1 min) | (over 60 min) | | |
| 124 | 56.4 | 50.8 | 49.2 | 5.1 | 45.7 | | |
| 126 | 57.3 | 51.6 | 48.4 | 5.2 | 46.4 | | |
| 128 | 58.2 | 52.4 | 47.6 | 5.2 | 47.2 | | |
| 130 | 59.1 | 53.2 | 46.8 | 5.3 | 47.9 | | |
| 132 | 60.0 | 54.0 | 46.0 | 5.4 | 48.6 | | |
| 134 | 60.9 | 54.8 | 45.2 | 5.5 | 49.3 | | |
| 136 | 61.8 | 55.6 | 44.4 | 5.6 | 50.0 | | |
| 138 | 62.7 | 56.4 | 43.6 | 5.6 | 50.8 | | |
| 140 | 63.6 | 57.2 | 42.8 | 5.7 | 51.5 | | |
| 142 | 64.5 | 58.1 | 41.9 | 5.8 | 52.3 | | |
| 144 | 65.5 | 59.0 | 41.0 | 5.9 | 53.1 | | |
| 146 | 66.4 | 59.8 | 40.2 | 6.0 | 53.8 | | |
| 148 | 67.3 | 60.6 | 39.4 | 6.1 | 54.5 | | |
| 150 | 68.2 | 61.4 | 38.6 | 6.1 | 55.3 | | |
| 152 | 69.1 | 62.2 | 37.8 | 6.2 | 56.0 | | |
| 154 | 70.0 | 63.0 | 37.0 | 6.3 | 56.7 | | |
| 156 | 70.9 | 63.8 | 36.2 | 6.4 | 57.4 | | |
| 158 | 71.8 | 64.6 | 35.4 | 6.5 | 58.1 | | |
| 160 | 72.7 | 65.4 | 34.6 | 6.5 | 58.9 | | |
| 162 | 73.6 | 66.2 | 33.8 | 6.6 | 59.6 | | |
| 164 | 74.5 | 67.1 | 32.9 | 6.7 | 60.4 | | |
| 166 | 75.5 | 68.0 | 32.0 | 6.8 | 61.2 | | |
| 168 | 76.4 | 68.8 | 31.2 | 6.9 | 61.9 | | |
| 170 | 77.3 | 69.6 | 30.4 | 7.0 | 62.6 | | |
| 172 | 78.2 | 70.4 | 29.6 | 7.0 | 63.4 | | |
| 174 | 79.1 | 71.2 | 28.8 | 7.1 | 64.1 | | |
| 176 | 80.0 | 72.0 | 28.0 | 7.2 | 64.8 | | |
| 178 | 80.9 | 72.8 | 27.2 | 7.3 | 65.5 | | |
| 180 | 81.8 | 73.6 | 26.4 | 7.4 | 66.2 | | |
| 182 | 82.7 | 74.4 | 25.6 | 7.4 | 67.0 | | |
| 184 | 83.6 | 75.2 | 24.8 | 7.5 | 67.7 | | |
| 186 | 84.5 | 76.1 | 23.9 | 7.6 | 68.5 | | |
| 188 | 85.5 | 77.0 | 23.0 | 7.7 | 69.3 | | |
| 190 | 86.4 | 77.8 | 22.2 | 7.8 | 70.0 | | |
| 192 | 87.3 | 78.6 | 21.4 | 7.9 | 70.7 | | |
| 194 | 88.2 | 79.4 | 20.6 | 7.9 | 71.5 | | |
| 196 | 89.1 | 80.2 | 19.8 | 8.0 | 72.2 | | |
| 198 | 90.0 | 81.0 | 19.0 | 8.1 | 72.9 | | |
| 200 | 90.9 | 81.8 | 18.2 | 8.2 | 73.6 | | |
| 202 | 91.8 | 82.6 | 17.4 | 8.3 | 74.3 | | |
| 204 | 92.7 | 83.4 | 16.6 | 8.3 | 75.1 | | |
| 206 | 93.6 | 84.2 | 15.8 | 8.4 | 75.8 | | |
| 208 | 94.5 | 85.1 | 14.9 | 8.5 | 76.6 | | |
| 210 | 95.5 | 86.0 | 14.0 | 8.6 | 77.4 | | |
| 212 | 96.4 | 86.8 | 13.2 | 8.7 | 78.1 | | |
| 214 | 97.3 | 87.6 | 12.4 | 8.8 | 78.8 | | |
| 216 | 98.2 | 88.4 | 11.6 | 8.8 | 79.6 | | |
| 218 | 99.1 | 89.2 | 10.8 | 8.9 | 80.3 | | |
| <u>></u> 220 | >100.0 | 90.0 | 10.0 | 9.0 | 81.0 | | |

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Thrombolysis/Stroke

Emergency Department/ICU

Center Patient Admission Label Here

Protocol Guidelines

Management of intracrainial hemorrhage following the start of t-PA infusion: if there is any acute neurological deterioration, new headache, acute hypertension, or nausea and vomiting then:

If hemorrhage is suspected then do the following:

- Discontinue t-PA infusion unless other causes of neurological deterioration are apparent
- Immediate CT scan or other diagnostic imaging method sensitive to the presence of hemorrhage
- Draw blood for PT, aPTT, platelet count, fibrinogen and type and cross (may wait to do actual type and cross)
- Prepare for administration of 6-8 units of platelets

If Intracranial hemorrhage is present:

- Obtain fibrinogen results
- Consider administering cryoprecipatate or platelets if needed
- Consider altering and consulting a hematologist or neurosurgeon
- Consider decision regarding further medical and/or surgical therapy
- Consider second CT to assess progression of intracrainal hemorrhage

A plan for access to emergent neurosurgical consultation is highly recommended

Other orders: _____

| PHYSICIAN | | | | | | |
|-----------|------|------|---|----|------|--|
| SIGNATURE | | Date | / | _/ | Time | |