

Suspected Stroke

History

- Previous CVA, TIA's
- Previous cardiac / vascular surgery
- Associated diseases: diabetes, hypertension, CAD
- Atrial fibrillation
- Medications (blood thinners)
- History of trauma
- Sickle Cell Disease
- Immune disorders
- Congenital heart defects
- Maternal infection / hypertension

Signs and Symptoms

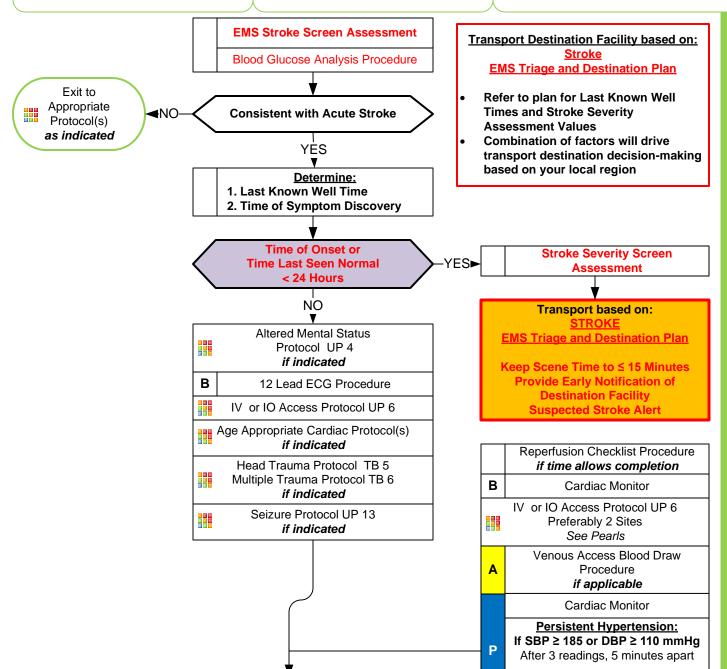
- Altered mental status
- Weakness / Paralysis
- Blindness or other sensory loss
- Aphasia / Dysarthria
- Syncope
- Vertigo / Dizziness
- Vomiting
- Headache
- Seizures
- · Respiratory pattern change
- Hypertension / hypotension

Differential

- See Altered Mental Status
- TIA (Transient ischemic attack)
- Seizure
- Todd's Paralysis
- Hypoglycemia
- Stroke

Thrombotic or Embolic (~85%) Hemorrhagic (~15%)

- Tumor
- Trauma
- Dialysis / Renal Failure



UP 14

Notify Destination or

Contact Medical Control

Contact Receiving Facility for

guidance on hypertension treatment



Suspected Stroke

Jniversal Protocol Sectio

Pearls

- Recommended Exam: Mental Status, HEENT, Heart, Lungs, Abdomen, Extremities, Neuro
- Items in Red Text are key performance measures used in the EMS Acute Stroke Care Toolkit.
- Acute Stroke care is evolving rapidly. Time of Onset/ Last Seen Normal may be changed at any time depending on the capabilities and resources of your regional hospital(s).
- Refer to your Stroke: EMS Triage and Destination Plan which should be updated when community resources change.
- Time of Onset or Last Seen Normal:

One of the most important items the pre-hospital provider can obtain, of which all treatment decisions are based.

Be very precise in gathering data to establish the time of onset and report as an actual time (i.e. 13:47 NOT "about 45 minutes ago.")

Without this information patient may not be able to receive thrombolytics at facility.

Wake up stroke: Time starts when patient last awake or symptom free.

• Time of Symptom Discovery:

Time when symptoms of stroke are first noticed by patient, bystanders, witnesses, or family/ caregivers.

• Sources of information pertaining to Last Known Well Time or Symptoms Onset:

You are often in the best position to determine the actual Time of Onset while you have family, friends or caretakers available.

Often these sources of information may arrive well after you have delivered the patient to the hospital. Delays in decisions due to lack of information may negatively impact patient care.

Obtain contact information (phone number and name) of best witnesses and give to hospital providers.

- The Reperfusion Checklist should be completed for any suspected stroke patient as time allows.
- If possible place 2 IV sites, preferably above the wrists, and if possible both in the left upper extremity.
- Blood Draw:

Many stroke centers utilize EMS venous blood samples. Follow your local policy and procedures.

- The differential listed in the UP 4 Altered Mental Status Protocol should also be considered.
- Be alert for airway problems (swallowing difficulty, vomiting/aspiration).
- Hypoglycemia can present as a localized neurologic deficit, especially in the elderly.
- Document the EMS Stroke Screen, Stroke Severity Score, and Stroke Alert notification time in the ePCR or PCR.
- Agencies may use validated pre-hospital stroke screen of choice.
- Pediatrics:

Strokes do occur in children, they are slightly more common in ages < 2, in boys, and in African-Americans. Newborn and infant symptoms consist of seizures, extreme sleepiness, and using only one side of the body. Children and teenagers symptoms may consist of severe headaches, vomiting, sleepiness, dizziness, and/or loss of balance or coordination.