# SUSPECTED STROKE

### **ALL PROVIDERS/EMT**

☐ Focused history and physical exam Blood glucose, temperature and oxygen saturation assessment. Keep NPO. Document symptom onset time or time last seen normal. ☐ Continuous cardiac, blood pressure, ETCO2, and pulse oximetry monitoring when available. ☐ 12 Lead EKG, if available and does not delay transport. ☐ Treatment Plan Perform Cincinnati Stroke Scale (CSS) to determine if a stroke is likely present (below) If CSS positive, perform a Cincinnati Stroke Triage Assessment Tool (C-STAT) to determine if a large vessel occlusion (LVO) stroke is likely present (below). An LVO stroke may be best treated with an endovascular thrombectomy (direct clot removal) at a specialized stroke center (TSC or CSC, below). Determine Last Known Well (LKW) time (the time when the patient was last seen without new stroke symptoms) Destination guidelines for stroke patients: If LVO score (C-STAT) is positive AND you will arrive at the destination hospital within: • 0-4 hours since LKW: Transport to nearest IV tPA-capable hospital (with pre-notification and possible LVO transport protocol activated by hospital). (MVH, UVH, TRH, AFH & Mountain Point) • 4-24 hours since LKW: Transport to thrombectomy-capable center if no more than 30 minutes of added transport time over transport to a closer SRF / PSC. (UVH only) • > 24 hours since LKW: Transport to closest stroke center (any level of certification) If LVO scale (C-STAT) is negative, EMS to transport to closest stroke center (any level of certification. Consider air medical transport to facilitate rapid transport when needed. Acquire the cell phone number of family members/next of kin to provide to clinicians so they can call them and ask questions if needed. Alert the receiving emergency department that you are transporting a suspected stroke patient as soon as you have made a destination decision. Inform them if the patient is "C-STAT" positive and of their presenting symptoms. **☐** Pediatric Considerations Children can have strokes too. Some risk factors include; sickle cell disease, congenital and acquired heart disease, head and neck infections, systemic conditions, (e.g. inflammatory bowel disease and autoimmune disorders), head trauma or dehydration. **ADULT** PEDIATRIC (<15 years of Age) NOTE: Pediatric weight-based dosing should not

exceed Adult dosing.

	EMT		EMT
	Apply oxygen to maintain oxygen saturation 90 - 95%		Apply oxygen to maintain oxygen saturation 90 - 95%
	Evaluate and Document Cincinnati Stroke Scale (CSS) during assessment. The scale is		Evaluate and Document Cincinnati Stroke Scale (CSS) during assessment. The scale is

positive (a stroke is likely) if ANY of following are abnormal:

## Facial Droop

- Normal: Both sides of face move equally
- Abnormal: One side of face does not move as well as the other (or not at all)

#### Arm Drift

- Normal: Both arms move equally or not at all
- Abnormal: One arm does not move, or drifts down compared to the other

## • Speech

- Normal: Patient uses correct words with no slurring
- Abnormal: Slurred or inappropriate words or mute
- ☐ Evaluate and Document Cincinnati Stroke
  Triage Assessment Tool (C-STAT) during
  assessment. The scale is positive (a LVO stroke
  is likely) if the score is 2 or greater:
  - 2 points Conjugate Gaze Deviation (eyes deviated to one side and unable to track across the midline)
  - 1 Point Mental Status: Incorrectly performs a combination of the following:
    - o Tell correct age or current month
    - AND, is unable to follow at least one of two commands (e.g. close eyes, open or close hand)
  - 1 Point Weakness: Cannot hold up one arm for 10 seconds before it falls to the bed

## AEMT

☐ Advanced airway, vascular access and fluid therapy.

# PARAMEDIC

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  assessment. The scale is positive (a LVO stroke
  is likely) if the score is 2 or greater:
  - 2 points Conjugate Gaze Deviation (eyes deviated to one side and unable to track across the midline)
  - 1 Point Mental Status: Incorrectly performs a combination of the following:
    - Tell correct age or current month, if able by age and ability.
    - AND, is unable to follow at least one of two commands (e.g. close eyes, open or close hand)
  - 1 Point Weakness: Cannot hold up one arm for 10 seconds before it falls to the bed.

### **AEMT**

☐ Advanced airway, vascular access and fluid therapy.

# **PARAMEDIC**

