SAN FRANCISCO EMERGENCY MEDICAL SERVICES AGENCY

Effective: 01/07/13 Protocol: P-024

Supersedes: 01/01/11

STROKE

SUBJECTIVE FINDINGS

- **Check surroundings** for syringes, insulin, medication bottles [e.g.: anti-hypertensives, ASA, blood thinners, NTG preparations].
- Check for evidence of mechanical fall or recent seizure.
- **Abrupt Change in Mental Status:** Altered speech, change in gait, changes in behavior, confusion, headache, focal neurological findings and visual disturbances.
- **ONSET TIME** for signs and symptoms. See PRECAUTIONS AND COMMENTS.
- Medical History: hypertension, atrial fibrillation, prior stroke, TIAs, unexplained syncope, coronary disease, vascular disease, diabetes, and / or smoking.

OBJECTIVE FINDINGS

- LOC and neurological assessment.
- Facial asymmetry, hemiparesis, loss of sensation, visual field disturbance or visual field loss.
- Dysarthria or aphasia.
- Pupil size and reactivity, extra-ocular movements.
- Medical alert bracelet .
- Abnormal blood glucose.
- Cranial nerve palsy.
- Ataxia.
- CINCINNATI PREHOSPITAL STROKE SCALE (CPSS)*
 - Facial droop
 - Language
 - Motor (Pronator drift)

BLS Treatment	ALS Treatment
Routine Medical Care. Oxygen administration. Consider C-Spine immobilization consistent with C-Spine policy.	 IV access [see PRECAUTIONS AND COMMENTS]. Protect airway. Consider advanced airway management if comatose and no gag reflex. Consider hypoglycemia. See ALTERED MENTAL STATUS Protocol (P-006). Consider 500CC fluid challenge if SBP <90.
	Pre-hospital screening for thrombolytic therapy. pital with Advance Notification

Immediate Transport to Hospital with Advance Notification

If **potential STROKE** is suspected with symptoms present for **4.5 hours or less**, immediately transport patient to a designated STROKE Receiving Hospital (See EMS Policy 5000 Destination). **Notify hospital**.

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DOCUMENTATION

Neurologic exam including Cincinnati Pre-Hospital Stroke Scale

- Blood glucose check
- Symptom onset time recorded
- Notification and rapid transport to a designated stroke center for symptoms present for 4.5 hours or less

PRECAUTIONS AND COMMENTS

- Minimize scene time.
- If at all possible, place IV in the **right anticubital fossa**. If the patient requires CT scan the dye contrast has better quality when injected in the right limb.
- Bring patient to appropriate Stroke Receiving Hospital per Policy 5000 Destination.

*CINCINNATI PREHOSPITAL STROKE SCALE (CPSS): Apply CPSS if you suspect that the sudden neurological impairment is due to stroke. If patient scores "abnormal" in any of the following 3 tests, there is a 72% likelihood of stroke.

1. **Facial Droop** - Have patient show teeth or smile:

Normal: both sides of face move equally.

Abnormal: one side of face does not move as well as the other side.

2. **Pronator Drift** - Patient closes eyes and holds both arms straight out for 10 seconds:

Normal: both arms move the same or both arms do not move at all.

Abnormal: one arm does not move or one arm drifts down compared with the other.

3. **Abnormal Speech** - Have the patient repeat a statement such as, "You can't teach an old dog new tricks":

Normal: patient uses correct words with no slurring.

Abnormal: patient slurs words, uses the wrong words, or is unable to speak.