

Clinical Scenario: Stroke, Ischemic (CVA)

Scenario:

50, female c/o new onset left facial droop, numbness around her mouth, blurry vision and headache X 2 days. States felt unsteady when walking at home. AAOx3.

Initial VS: T 37 HR 70, RR 19, BP 133/80

Denies:

- Any other neurological deficit
- No sudden onset/thunderclap h/a
- Speech/ swallowing changes
- Trauma
- Any anticoagulation medications

ED Course: Tylenol PO

At Time of Decision:

- Blurry vision / headache improved
- + left facial droop
- Motor strength Left 4, Right 5
- Patient assisted to bathroom, very unsteady on feet, leans to left
- NIH Score 3

Medical History: obesity, HTN, IDDM Vital Signs: HR 68, RR 18, BP 156/80 Labs: WNL Imaging: CT/CTA neg, MRI ordered



- **C-** Consider appropriate care setting
 - Hospitalization
- A- Ask what the principal diagnosis is?
 - CVA/Stroke
- **R-** Review INPT guideline first, then OBS
- INPT criteria: MET
- E- Enter bed status / level of care order
- Inpatient
- D- Document criteria in medical record

 Inpatient care indicated, one: Acute ischemic with findings*, one: NIHSS > 2 Evidence of hemorrhage AMS* INPT PT/OT treatment/eval warranted Dysphagia Significant extremity weakness Aphasia Gait impairment + brain imaging (mass, edema) unclear (recurrent/worsening) Acute Ischemic CVA, + INPT care, one: Unstable vs Concerning cardiac arrythmia Respiratory abnormality Severe hypertension Extended telemetry > 24 hrs needed Suspected vasculitis Pregnancy Thrombolysis (plan or performed) Urgent INPT procedure planned 	 Observation care indicated, one: Vital sign abnormality** Appropriate evaluation (brain MRI, echocardiogram, carotid imaging) cannot be completed in emergency department time frame (3 to 4 hours). Cardiac embolic source suspected requiring cardiac telemetry monitoring beyond emergency department care time frame National Institutes of Health Stroke Scale (NIHSS) score less than or equal to 2 and monitoring of neurologic findings (eg, for worsening or recurrence of findings) beyond emergency department time frame (3 to 4 hours) is needed
*Can NOT be patient baseline	** Can NOT be patient baseline

Teaching Points:

- CVA = persistent deficit- therefore left arm weakness, and gait impairment and NIH score = 3
- Admission status is always based on provider judgement but with supportive documentation towards status

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- NIHSS score >2 supports INPT CVA Criteria selection
- NIHSS score ≤2 supports OBS CVA Criteria selection
- Documentation of criteria points, NIHSS score, abnormal VS, helps support admission status selection
- Contraindication of medications needs to be documented