

QUICK SOLUTION GUIDE

ACUTE ISCHEMIC STROKE WITH
CONTRAINDICATION TO ALTEPLASE



SCENARIO

#34

NAME

JAMES KEVINSON

SPECIALTY

Neurology

DIFFICULTY LEVEL

ADVANCED

SIMULATION ENVIRONMENT

INTRA HOSPITAL - EMERGENCY ROOM

Dialogues

Ask the following questions to the patient:

History Taking

Chief Complaint

- How are you feeling?
- What happened to you?

Physical examination

Perform the following physical examinations:

Airway

- Airway observation

Breathing

- O2 Sat (%)
- Respiratory rate (/min)

Circulation

- Blood pressure (mmHg)
- Heart rate (bpm)

Disability

- Blood glucose (mg/dL)

Medical tests

Request the following medical tests:

Decision aids

- Stroke scale (NIHSS)

Imaging

- Cerebral angiography
- Cerebral perfusion CT
- Head CT

Treatments

Administer the following treatments:

To treat: ISCHEMIC EMBOLIC LEFT STROKE / SEVERE ISCHEMIC EMBOLIC LEFT STROKE WITH ALTEPLASE CONTRAINDICATION. One of the following:

- Medications | Antiplatelets | Acetylsalicylic acid
- Medications | Antiplatelets | Clopidogrel

Stroke Unit

- Call | Stroke unit

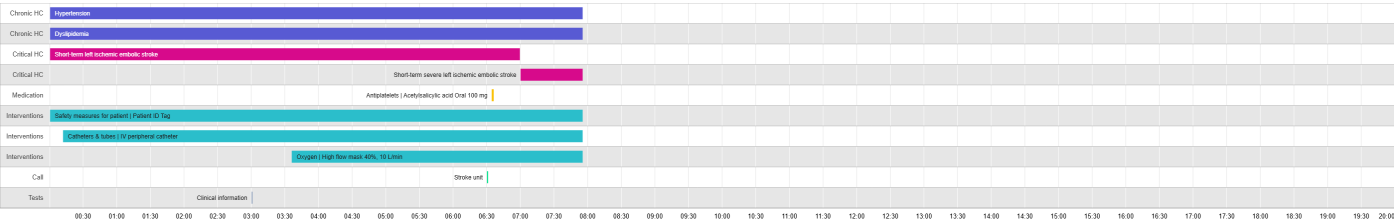
Baseline

Visualize the baseline approach. The baseline predicts scenario behavior assuming no actions by the trainee, which usually represents the worst-case scenario.



Optimal approach

Visualize the optimal approach to end your simulation successfully.



Question(s) during the simulation

Questions presented to the trainee in order to have a more detailed evaluation of the use of the clinical scenario.

Head CT question:

Question

Based on the patient's clinical assessment and the head CT findings, select the most likely diagnosis:

Correct answer

Acute ischemic stroke

2 Incorrect answer(s)

Hemorrhagic stroke

Subarachnoid hemorrhage

Head CT question:

Question

Does this CT have signs of any intracranial hemorrhage?

Correct answer

No

1 Incorrect answer(s)

Yes

Head CT question:

Question

Based on the neurological assessment, please rate the stroke severity:

Correct answer

Severe stroke

2 Incorrect answer(s)

Moderate stroke

Minor stroke

Head CT question:

Question

Are there any contraindications for thrombolysis?

Correct answer

Yes, because the patient has a large ischemic lesion

2 Incorrect answer(s)

Yes, because the symptoms started 4 hours ago

No, the patient has no contraindications to alteplase

Cerebral angiography question:

Question

Which vascular lesion is visible?

Correct answer

Occlusion of the left M1 MCA segment

2 Incorrect answer(s)

No occlusion is visible

Occlusion of the left M3 MCA segment

Cerebral angiography question:

Question

What is the extent of the established ischemic infarct in the CT scan?

Correct answer

Large infarct. ASPECTS: 0

2 Incorrect answer(s)

No changes. ASPECTS: 10

Moderate lesion. ASPECTS: 6

Cerebral angiography question:

Question

Does this patient have an indication for thrombectomy?

Correct answer

No

1 Incorrect answer(s)

Yes

Question(s) after simulation

Questions presented to the trainee in order to have a more detailed evaluation of the use of the clinical scenario.

Summative Multiple Choice Question:

Question

What is the most likely diagnosis?

Correct answer

Ischemic stroke

3 Incorrect answer(s)

Cerebral tumor

Hemorrhagic stroke

Encephalitis

Formative Multiple Choice Question:

Question

Which of the following interventions can improve the clinical outcome?

Correct answer

Admission to Stroke Unit, use of antiplatelet

2 Incorrect answer(s)

Admission to Stroke Unit, external Ventricular Drainage

Aggressive Blood Pressure control, prevention of infectious complications

Formative Multiple Choice Question:

Question

Will this patient have an indication for hemicraniectomy?

Correct answer

Yes, the patient may need hemicraniectomy within the first 48 hours

2 Incorrect answer(s)

Yes, the patient should undergo hemicraniectomy within the first 24 hours after stroke

No, this patient will never have an indication for hemicraniectomy

Handoff question

Question presented to the trainee to assess their ability to effectively communicate patient information during a transition of care. This question is optional.

Question

Summarize this Body Interact scenario using a structured handoff pattern.

Review handoff pattern

SBAR (Situation, Background, Assessment, Recommendation): Includes current condition and reason for handoff, relevant history and context, assessment details, and recommended actions.

SOAP (Subjective, Objective, Assessment, Plan): Covers patient-reported symptoms and history, measurable data and findings, clinical impressions and diagnoses, and the treatment plan.

I-PASS (Illness Severity, Patient Summary, Action List, Situation

Awareness and Contingency Planning, Synthesis by Receiver): Encompasses illness status, patient background, tasks and actions, potential changes and plans, and confirmation of understanding.

AT-MIST (Age, Time of incident or onset of symptoms, Mechanism of injury/Medical Complaint, Injuries or Inspections head-to-toe, vital Signs, and Treatments): Describes the cause of injury or medical complaint, findings from head-to-toe inspection, vital signs, and treatments provided.