

QUICK SOLUTION GUIDE

OCCLUSION M1 SEGMENT OF THE LEFT
MCA



SCENARIO

#144

NAME

SILVIA RUTH

SPECIALTY

Neurology

DIFFICULTY LEVEL

ADVANCED

SIMULATION ENVIRONMENT

INTRA HOSPITAL - EMERGENCY ROOM

Dialogues

Ask the following questions to the patient:

Greeting and Introduction

- Could you please tell me your name?
- Could you please tell us your age?

History Taking

Chief Complaint

- How are you feeling?
- Do you know what month it is?

History of Present Illness

- Do you know where you are right now?
- Can you please repeat: MAMA, TIP-TOP, FIFTY-FIFTY, THANKS, HUCKLEBERRY, BASEBALL PLAYER.

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)
- Double simultaneous stimulation
- Facial motor assessment
- Language assessment
- Left ankle strength
- Left hip strength

- Left knee strength
- Mingazzini manoeuvre
- Pronator drift
- Response to simple verbal commands
- Right ankle strength
- Right hip strength
- Right knee strength
- Visual fields

Medical tests

Request the following medical tests:

Imaging

- Cerebral angiography
- Cerebral perfusion CT
- Head CT

Lab tests

- Complete blood count

Treatments

Administer the following treatments:

Medications - Antiplatelets. One of the following:

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

Call - Stroke Unit

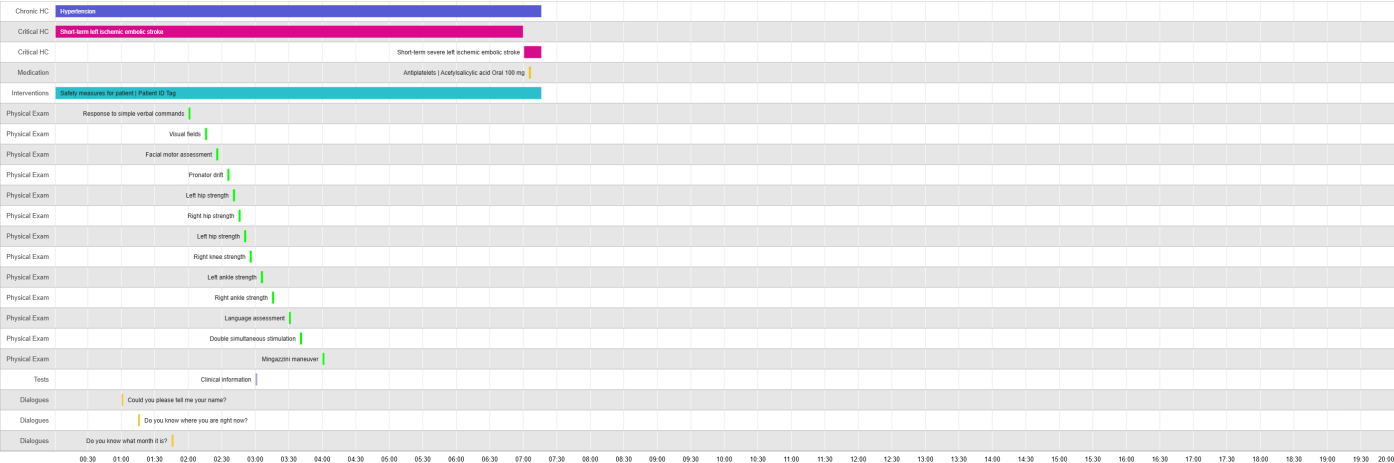
- Call | Stroke unit

Interventions - Oxygen. One of the following:

- Interventions | Oxygen | High flow mask
- Interventions | Oxygen | Nasal cannula

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.

Language assessment question:

Question

How would you classify the patient's speech?

Correct answer

Global aphasia

2 Incorrect answer(s)

Wernicke aphasia

Dysarthria

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)

Subdural hematoma

Transient ischemic attack

Head CT question:

Question

Does this CT have signs of any intracranial hemorrhage?

Correct answer

Yes

1 Incorrect answer(s)

No

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

1 Incorrect answer(s)

No

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

No changes. ASPECTS: 10

Cerebral angiography question:

Question

Does this patient have an indication for thrombectomy?

Correct answer

No, considering the established injury and premorbid functional status

2 Incorrect answer(s)

Yes

No, because the patient is > 80 years old

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)

Subdural hematoma

Hemorrhagic stroke

Cerebral venous thrombosis

Formative Multiple Choice Question:

Question

What is the patient's total NIHSS score at presentation?

Correct answer

26

2 Incorrect answer(s)

21

16

Formative Multiple Choice Question:

Question

What is the patient's NIHSS score in the motor assessment of upper and lower limbs?

Correct answer

8

2 Incorrect answer(s)

6

4

Formative Multiple Choice Question:

Question

Which of the following approaches may improve the patient's outcome?

Correct answer

Motor rehabilitation

2 Incorrect answer(s)

Hemicraniectomy

Carotid endarterectomy

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.