

# 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

This patient is not a real patient, and the clinical scenario, while clinically plausible, is fictional.

**BODY INTERACT™**  
VIRTUAL PATIENTS

# 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

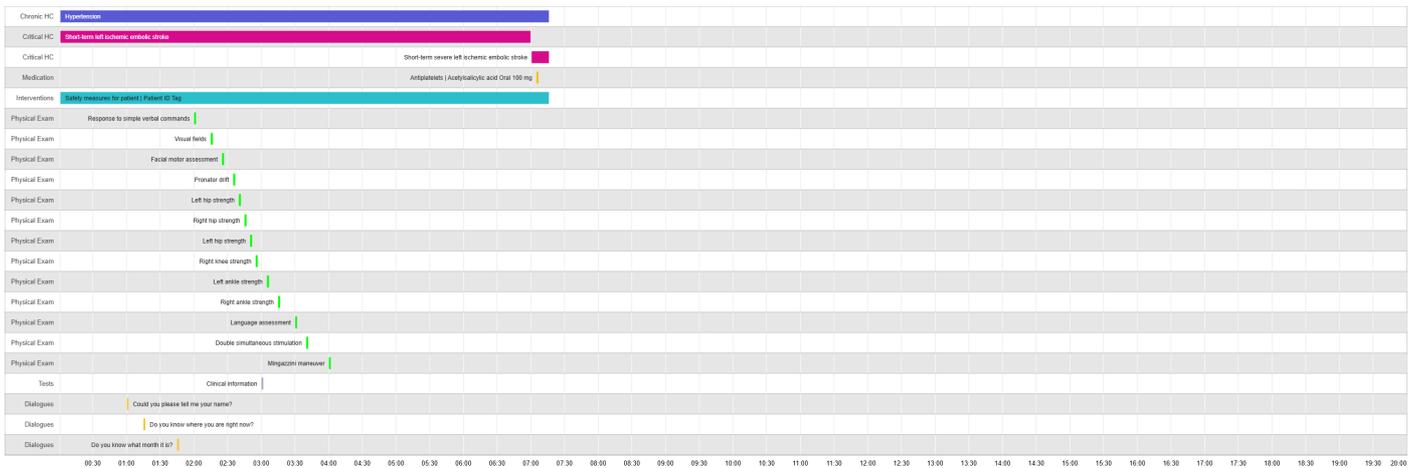
- Call | Stroke unit

### 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 premonitory 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.