

QUICK SOLUTION GUIDE

INTRACRANIAL HEMORRHAGE WITH
VITAMIN K ANTAGONIST



SCENARIO

#68

NAME

BRIDGETTE THATCHER

SPECIALTY

Neurology

DIFFICULTY LEVEL

ADVANCED

SIMULATION ENVIRONMENT

INTRA HOSPITAL - EMERGENCY ROOM

Dialogues

Ask the following questions to the patient:

History Taking

Chief Complaint

- Currently, how do you feel?

Past Medical/Surgical History

- Do you have any other health problems?
- Have you ever had any cardiovascular disease?

Medications and Allergies

- Are you currently taking any medication?
- Have you taken exactly the same doses that your doctor instructed you to take?

Physical examination

Perform the following physical examinations:

Airway

- Airway observation

Breathing

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

Circulation

- Blood pressure (mmHg)
- Capillary refill time (s)
- Extremities to touch
- Heart rate (bpm)
- Pulse palpation

Disability

- Glasgow Coma Scale
- Pupil light reflex

Medical tests

Request the following medical tests:

Decision aids

- Stroke scale (NIHSS)

Imaging

- Head CT

Lab tests

- Biochemistry
- Coagulation tests

Treatments

Administer the following treatments:

To treat: Right intracerebral hemorrhage

- Medications | Procoagulants | Vitamin K

To treat: Right intracerebral hemorrhage. One of the following:

- Medications | Procoagulants | APCC
- Medications | Procoagulants | PCC
- Medications | Procoagulants | Plasma

To treat: Hypertension. One of the following:

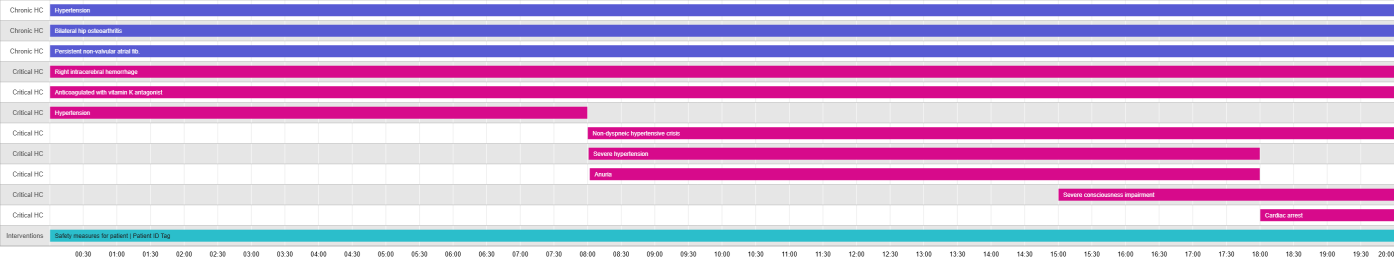
- Medications | Antihypertensives | Labetalol
- Medications | Antihypertensives | Urapidil
- Medications | Vasodilators | Glyceryl trinitrate

Neurology

- Call | Neurology

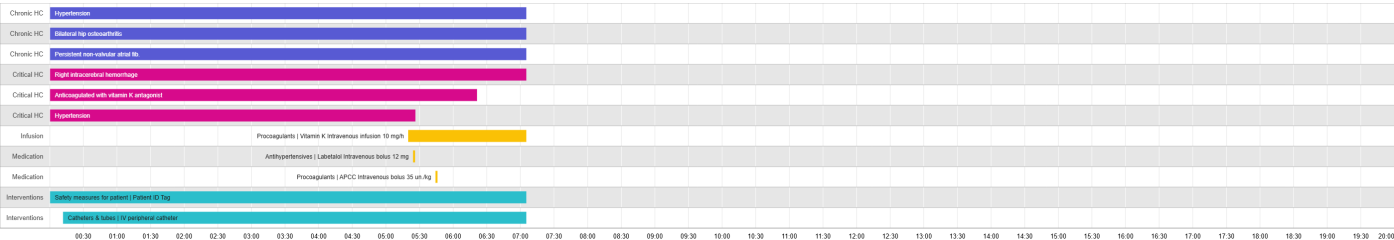
Baseline

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

Hemorrhagic stroke

2 Incorrect answer(s)

Acute ischemic stroke

Subarachnoid hemorrhage

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

Coagulation tests question:

Question

Is it mandatory to reverse coagulation in this patient?

Correct answer

Yes

1 Incorrect answer(s)

No

Cerebral CT angiography question:

Question

Which vascular lesion is visible?

Correct answer

No occlusion nor vascular malformations are visible

2 Incorrect answer(s)

Occlusion of the right MCA

Arterio-venous malformation in the right cerebral hemisphere

Cerebral CT 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

Intracerebral hemorrhage

3 Incorrect answer(s)

Cerebral venous thrombosis

Acute ischemic stroke

Cerebral abscess

Formative Multiple Choice Question:

Question

At what level of INR is it mandatory to reverse coagulation?

Correct answer

1,7

2 Incorrect answer(s)

1,0

2,5

Formative Multiple Choice Question:

Question

What is the maximum accepted level of systolic BP in patients with acute intracerebral hemorrhage?

Correct answer

140 mmHg

2 Incorrect answer(s)

185 mmHg

220 mmHg

Formative Multiple Choice Question:

Question

In which hospital department is it recommended that this patient be admitted?

Correct answer

Stroke Unit or Intensive Care Unit

2 Incorrect answer(s)

Medical Ward or Stroke Unit

Medical Ward

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.