

# COMMON STRUCTURE FOR HIGH FIDELITY SIMULATION SCENARIO

## SCENARIO TITLE

### Blind Leadership

## SCENARIO OVERVIEW

DUMMY TYPE:

HEALTHCARE SERVICE: Inpatient surgical unit

TARGET GROUP<sup>1</sup>: specialisation and master students

ESTIMATED SCENARIO DURATION: 15 minutes

SCENARIO SUMMARY<sup>2</sup>:

The students are invited to solve, in group, the clinical condition of a patient in cardiac arrest caused by hypoglycaemia associated to extended fast. A student must take on leadership of the process, but will do so with a blindfold. The different participants will need orders from the leader to implement the actions.

## EDUCATIONAL OBJECTIVES

GENERAL OBJECTIVES:

To establish a structured and efficient communication; to lead a team in SAV

SCENARIO-SPECIFIC OBJECTIVES:

- To identify the patient's condition as critical, to obtain colleagues' help and specialised help
- to take commands, assign functions and guarantee their implementation
- to establish efficient communication within the team
- to take appropriate decision, taking priorities into account

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<sup>1</sup> Skill level and number of participants

<sup>2</sup> Scenario key words

## PARTICIPANTS' ROLE

STUDENT	1 -leader	3 –respond to request for help	
PROFESSIONAL	1 –doctor who answers the phone		
TRAINERS <sup>3</sup>	1 –managing the case	1 -debriefing	

## EQUIPMENT LIST<sup>4</sup>

Medical supplies:

- Circulation<sup>5</sup>: vein catheter in position; needles, syringes, drip systems
- Ventilation<sup>6</sup>: O2, vacuum, suction tubes, catheter and O2 masks, manual bag valve mask, stethoscope
- Miscellaneous<sup>7</sup>: pupil lamp; glucometer

Medicines and solutes: SF and Ringer's solution; glucose 20%, adrenalin, amiodarone

Documents<sup>8</sup>: patient's file

Accessories<sup>9</sup>: phone, protection equipment

Environment<sup>10</sup>: general surgery infirmary; patient with surgical plaster on the abdomen, with bloodstains, abdominal drain with bloodstains.

## SCENARIO PREPARATION

SIMULATION TYPE:

DUMMY TYPE:

SIMULATOR PREPARATION:

- Setting: corresponding to initial state (cf. table)
- Positioning<sup>11</sup>: patient lying, no breathing movements
- Accessories<sup>12</sup>: raised bed bars

ENVIRONMENT PREPARATION<sup>13</sup>:

- infirmary environment;

<sup>3</sup> Control of dummy setting / Debriefing/ Dummy voice/ Facilitator/ Disruptive element/ external stakeholder (phone speaker)

<sup>4</sup> Prefer Check-list for quick check-up

<sup>5</sup> Catheters, infusion lines, needles (IV, intraosseous, subcutaneous), blood collection tubes, tourniquet...

<sup>6</sup> Nasal cannulas, non-rebreather masks, intubation supplies...

<sup>7</sup> Capillary glycaemia, urinary catheter, thermometer, stethoscope, gloves, hand sanitizer....

<sup>8</sup> Patient medical file, transmission sheet, ECG, recommendation summary sheet

<sup>9</sup> Pen, phone, diagnostic penlight for pupils, work outfits (white coats...)

<sup>10</sup> Wig, basin, tissues with blood, **patient's suitcase...**

<sup>11</sup> Half sit-up, lying down

<sup>12</sup> Presence of oxygen, of a drip tube, already scoped...

<sup>13</sup> Raised bed rails, presence of patients belongings, tissues, needed information received (Displayed thermometer, glycaemia...)

- put a plaster on the abdomen with bloodstains;
- put an abdominal drainage bag with bloodstains;
- put a gastrostomy tube with remains

#### PREPARATION OF ADDITIONAL EXAMINATIONS<sup>14</sup>:

- if they ask for it, there is a radiograph of the thorax and one of the abdomen available – normal
- if they ask for it, there is the result of blood tests collected in the morning – normal

#### PREPARATION OF STUDENTS/LEARNERS<sup>15</sup>: professional outfit

- protection equipment
- if you ask for specialised help, a doctor answers the phone and say that you have to guarantee SAV, following the algorithm, help unavailable now because they are busy with other emergency situations

## BRIEFING

TIME: 16:30

#### SITUATION<sup>16</sup>:

The patient has undergone abdominal surgery (exploration laparotomy) two days ago. He has a plaster and a drain with bloodstains. His abdomen is distended and refers that the analgesics has little effect on pain.

He had a scanner 30 minutes ago to evaluate possible bowel obstruction. He arrived in the unit not long ago. He had analyses in the morning, and a thorax and abdomen radiograph. The results have not arrived yet.

Challenge: to exercise leadership with a blindfold.

The trainer leads the leader to the bedside and explains the rules: the leader must lead and guide the team. The scenario starts and the trainer says he hears a bell and, while arriving **to the patient's room, the other patient** in the room says he does not answer anymore.

#### DOCUMENTS<sup>17</sup>:

Read infirmary notes

## PATIENT DATA<sup>18</sup>

Surname: Silva Age: 48  
 Name: João Manuel Weight: 75 kg  
 Date of birth: 4<sup>th</sup> of January Height: 1.70  
 Allergies: no known allergies Gender: M  
 History: no relevant history until current disease  
 Medical history: colon tumour diagnosed two months ago  
 Surgeries: no prior surgery  
 Ob/gyn:

<sup>14</sup> If foreseen in the scenario, prepare additional examinations to display (chest radiograph, blood test...)

<sup>15</sup> Preliminary analysis of documents if needed

<sup>16</sup> Location where the scenario takes place, information before entering the simulation room

<sup>17</sup> Document handed during the briefing/ care record, biological results, written **transmissions** ...

<sup>18</sup> Care record layout or if not necessary to the scenario, voice memo for the trainer

## FRAMES OF REFERENCE / EXPERTS RECOMMENDATIONS<sup>19</sup>

- Follow SAV recommendations
- In 4H/4T evaluation you must suspect an allergy to the contrast agent and identify hypoglycaemia
- You must treat hypoglycaemia based on SAV recommendations
- Follow the “communication and leadership in emergency situations” protocol

## DEBRIEFING IDEAS

- How communication is established
- How leadership goes
- How the leader handles the situation

## SCENARIO PROGRESS

Monitor setting	Patient dummy	Students' interventions (what we would like to see...)	Messages
Beginning time of scenario:			
<p>Initial state:</p> <p>AP: HR: RR: SpO<sub>2</sub>:</p> <p>ECG curve <sup>20</sup>: pulseless SVT (PEA)</p> <p>Clinical signs: - eyes<sup>21</sup>: closed - pupils<sup>22</sup>: symmetrical, reactive, but with slow response - Pulmonary auscultation : clear, bilateral</p> <p>Glycaemia – 15 mg/dl</p>	Symptoms, voice	<ul style="list-style-type: none"> <li>- Evaluate ABCDE</li> <li>- Evaluate 4H and 4T</li> <li>- Correct hypoglycaemia administering 20% glucose (40-60 ml)</li> </ul>	The roommate patient says that Mr. João Silva was complaining and stopped talking (answering)

<sup>19</sup> Quoted sources, bibliography

<sup>20</sup> Sinus, Fibrillation...

<sup>21</sup> Open, half-closed, closed

<sup>22</sup> Miosis, mydriasis, anisocoria, normal-reactive

<p>State 2: After correcting hypoglycaemia</p> <p>AP: 100/60 HR: 120 RR: 12 SpO<sub>2</sub>: 92</p> <p>ECG curve: SR (120)</p> <p>Clinical signs: - eyes<sup>23</sup>: closed - pupils<sup>24</sup>: symmetrical, reactive - pulmonary auscultation: clear, bilateral Glycaemia – 105 mg/dl</p>			
End time of scenario:			

## SCENARIO EVALUATION

POSITIVE ASPECTS:

TO IMPROVE:

REALISM:

USED PROTOCOLS:

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<sup>23</sup> Open, half-closed, closed

<sup>24</sup> Miosis, mydriasis, anisocoria, normal-reactive

PROTOCOLS TO IMPLEMENT: