***COMMON STRUCTURE FOR HIGH FIDELITY SIMULATION SCENARIO***

SCENARIO TITLE

Management of a patient with SCD (Sickle Cell Disease) in vaso-occlusive crisis

SCENARIO OVERVIEW

DUMMY TYPE:

HEALTHCARE SERVICE: Emergency service reception

TARGET GROUP[[1]](#footnote-1): 2 nurse students, 1 nurse, 1 intern student (medicine student who can prescribe drugs)

ESTIMATED SCENARIO DURATION: 15 minutes

SCENARIO SUMMARY[[2]](#footnote-2): Initial care of a sickle cell patient in a vaso-occlusive crisis as soon as he arrives at the emergency department. Treatment of pain.

EDUCATIONAL OBJECTIVES

GENERAL OBJECTIVES: Treatment of a hyperalgic patient on arrival at the emergency service

SCENARIO-SPECIFIC OBJECTIVES: to be determined

PARTICIPANTS’ ROLE

|  |  |  |  |
| --- | --- | --- | --- |
| STUDENT: 1 | **Nurse student at the emergency service reception** | **Nurse student at the emergency service reception** |  |
| PROFESSIONAL: 1 | **Nurse in the emergency service** |  |  |
| TRAINERS[[3]](#footnote-3) | Nurse   * Piloting dummy and voice | **Nurse**  **(facilitator)**   * **In case of material problem** * **debriefing** | **Intern** |

EQUIPMENT LIST[[4]](#footnote-4)

Medical supplies:

- Circulation[[5]](#footnote-5):

Catheter

Catheter for perfusion IV (22G, 20G, 18G)

Tubes for blood test

Compresses

Pump body and transfer

Syringe for gazometry

Pump

Syringes 10cc

Syringes 50cc (screw tip)

Single tubing

Anti-reflux tubing (PCA)

PCA

Syringe driver

- Ventilation[[6]](#footnote-6):

Oxygen glasses

Oxygen bottles

Or Oxygen manometer

Simple mask

Kit for MEONO (Mixing equimolar oxygen nitrous oxide)

- Miscellaneous[[7]](#footnote-7):

Electric blanket

Tank for hot packs

Stethoscope

Gloves (S, M, L) (non-sterile)

Medicines and solutes:

Documents[[8]](#footnote-8):

Sorting sheets (of the sorting nurse) corresponding to the service

Recommendations EBN/EBM about the vaso-occlusive crisis

Accessories[[9]](#footnote-9):

Pens, labels to identify the IV

Environment[[10]](#footnote-10): Wigs for dummies

SCENARIO PREPARATION

SIMULATION TYPE:

DUMMY TYPE:

SIMULATOR PREPARATION:

- Setting: corresponding to initial state (cf. table)

- Positioning[[11]](#footnote-11) : patient lying down

- Accessories[[12]](#footnote-12): no

ENVIRONMENT PREPARATION[[13]](#footnote-13): bed barrier and stretcher in high position

PREPARATION OF ADDITIONAL EXAMINATIONS[[14]](#footnote-14): no

PREPARATION OF STUDENTS/LEARNERS[[15]](#footnote-15): work clothes on

BRIEFING

TIME:

SITUATION[[16]](#footnote-16):

DOCUMENTS[[17]](#footnote-17):

PATIENT DATA[[18]](#footnote-18)

Surname: Age:

Name: Weight:

Date of birth: Height:

Allergies: Gender:

History:

Medical history:

Surgeries:

Ob/gyn:

Personal treatment:

FRAMES OF REFERENCE / EXPERTS RECOMMENDATIONS[[19]](#footnote-19)

DEBRIEFING IDEAS

SCENARIO PROGRESS

|  |  |  |  |
| --- | --- | --- | --- |
|  | | | |
| **Monitor setting** | **Patient dummy** | **Students’ interventions**  **(what we would like to see…)** | **Messages** | |
| **Beginning time of scenario:** | | | | |
| **Initial state:**  AP:  HR:  RR:  SpO2:  ECG curve [[20]](#footnote-20):  Clinical signs:  - eyes[[21]](#footnote-21)  - pupils[[22]](#footnote-22)  - pulmonary auscultation | Symptoms, voice |  |  | |
| **State 2:**  AP:  HR:  RR:  SpO2:  ECG curve:  Clinical signs:  - eyes[[23]](#footnote-23)  - pupils[[24]](#footnote-24)  - pulmonary auscultation |  |  |  | |
| **State 3:**  AP:  HR:  RR:  SpO2:  ECG curve:  Clinical signs:  - eyes[[25]](#footnote-25)  - pupils[[26]](#footnote-26)  - pulmonary auscultation |  |  |  | |
| **End time of scenario:** | | | | |

SCENARIO EVALUATION

POSITIVE ASPECTS:

TO IMPROVE:

REALISM:

USED PROTOCOLS:

PROTOCOLS TO IMPLEMENT:

1. Skill level and number of participants [↑](#footnote-ref-1)
2. Scenario key words [↑](#footnote-ref-2)
3. Control of dummy setting / Debriefing/ Dummy voice/ Facilitator/ Disruptive element/ external stakeholder (phone speaker) [↑](#footnote-ref-3)
4. Prefer Check-list for quick check-up [↑](#footnote-ref-4)
5. Catheters, infusion lines, needles (IV, intraosseous, subcutaneous), blood collection tubes, tourniquet… [↑](#footnote-ref-5)
6. Nasal cannulas, non-rebreather masks, intubation supplies… [↑](#footnote-ref-6)
7. Capillary glycaemia, urinary catheter, thermometer, stethoscope, gloves, hand sanitizer…. [↑](#footnote-ref-7)
8. Patient medical file, transmission sheet, ECG, recommendation summary sheet [↑](#footnote-ref-8)
9. Pen, phone, diagnostic penlight for pupils, work outfits (white coats…) [↑](#footnote-ref-9)
10. Wig, basin, tissues with blood, patient’s suitcase… [↑](#footnote-ref-10)
11. Half sit-up, lying down [↑](#footnote-ref-11)
12. Presence of oxygen, of a drip tube, already scoped… [↑](#footnote-ref-12)
13. Raised bed rails, presence of patients belongings, tissues, needed information received

    (Displayed thermometer, glycaemia…) [↑](#footnote-ref-13)
14. If foreseen in the scenario, prepare additional examinations to display (chest radiograph, blood test…) [↑](#footnote-ref-14)
15. Preliminary analysis of documents if needed [↑](#footnote-ref-15)
16. Location where the scenario takes place, information before entering the simulation room [↑](#footnote-ref-16)
17. Document handed during the briefing/ care record, biological results, written transmissions … [↑](#footnote-ref-17)
18. Care record layout or if not necessary to the scenario, voice memo for the trainer [↑](#footnote-ref-18)
19. Quoted sources, bibliography [↑](#footnote-ref-19)
20. Sinus, Fibrillation.... [↑](#footnote-ref-20)
21. Open, half-closed, closed [↑](#footnote-ref-21)
22. Miosis, mydriasis, anisocoria, normal-reactive [↑](#footnote-ref-22)
23. Open, half-closed, closed [↑](#footnote-ref-23)
24. Miosis, mydriasis, anisocoria, normal-reactive [↑](#footnote-ref-24)
25. Open, half-closed, closed [↑](#footnote-ref-25)
26. Miosis, mydriasis, anisocoria, normal-reactive [↑](#footnote-ref-26)