



<<Scenario Name>>

Section 1: Demographics

| Case Title: |
|------------------------------------|
| Case Description & Diagnosis: |
| Author(s): |
| Editor: Keith A. Beaulieu, MBA, BS |
| Date(s) of Development: |
| Target Audience: |
| Specialties: |

Section 2: Curricular Information

Educational Rationale:

Prerequisite Knowledge and Skills:

Required Knowledge Background

- Anatomy related to airway and breathing
- Progression of symptoms of high spinal
- Intubation techniques
- Oxygenation delivery methods
- Respiratory/droplet precautions
- Fluid and blood products administration
- ACLS

Required Background Skills

- Airway Assessment
- Emergency Airway Management
 - o Bag Mask Ventilation
 - o Proper use of oral and nasal airway
 - o Performing bronchoscopy
 - o Performing laryngoscopy
 - o Perform suctioning

Advanced Cardiac Life Support Protocols

ACGME Milestones

<<insert here>>

Patient Care (PC)
Medical Knowledge (MK)
System-based Practice (SBP)
Practice-based Learning and Improvement (PBLI)
Professionalism (P)
Interpersonal and Communication Skills (ICS)

Learning Objectives:

- X
- X
- X
- **Demonstrate** proper "time-out" protocol prior to invasive procedure(s), based on University of California Irvine Medical Center time out policy/protocols, without error.

References used:

Section 3: Preparation

- 1. Simulator
 - a. SimMan 3G
- 2. Machines
 - a. Anesthesia machine,
 - b. Code Cart
- 3. Misc
 - **a.** Monitors Basic Anesthesia and Patient Monitors Will need to have A-line and CVP options

Supplies (list specific quantities, sizes, and brand)

- 1. Airway
 - a. Adult nasal cannula
 - b. Adult face mask
 - c. Adult non-re-breather mask
 - d. Purple Oral airway
 - e. 26 Nasal airway
 - f. 7.0 or 7.5 endotracheal tube with lubricant on end to simulate mucous
 - g. Laryngoscope with size 3 MAC blade
 - h. Adult BVM
- 2. Medications/infusions
 - a. X
 - b. X
 - c. X
 - d. X
- 3. Kits
 - a. X
- 4. Misc
 - a. x

Supporting Materials:

- 1. Images
 - a. CXR
 - b. ECHO
- 2. Labs
 - a. ABG
 - b. CBC
 - c. Chemistry
 - d. Cardiac Enzymes
- 3. Handouts
 - a. None
- 4. Misc
 - a. Use EKG generated from Laerdal software (if required)
 - b. Ultrasound (not available)

CXR, ECG, ECHO, Labs (CBC, BMP, ABG), ultrasound not available. A-line, Central line

Standardized Actors/Roles: (indicate the actors or roles needed to successfully run the scenario; key actions required to elicit behavior; and how the role should be played-i.e. helpful, distracted, confrontational, etc.) Provide a script or typical questions and answers.

Time Duration

| Set-up | 15 minutes |
|-------------|------------|
| Preparation | 10 minutes |
| Simulation | 15 minutes |
| Debrief | 30 minutes |

Section 4: Simulation Exercise

Information for Participant

| Case Stem | to be | read | to | participants: |
|------------------|-------|------|----|---------------|
| (.): | | | | |

Additional information if asked (patient history, labs, physical findings, etc.):

Information for Facilitator/Simulator Operator Only

| Initial presentation: | |
|--|--|
| How the Scenario unfolds: | |
| Critical Action Items: | |
| Actual course of events and outcomes (for real patient cases): | |

Simulation Events Table

| Minute (State) | Participant action/ Trigger | Patient Status (Simulator response) & Operator Prompts | Monitor Display (Vital Signs) |
|------------------------|--------------------------------|--|----------------------------------|
| 0:00 (Baseline) | | Simulator voice: none Confederate script: | Rhythm: B/P: P: R: T: O2 sat: |
| 0:00-1:00 (State 1) | Time-out | Simulator voice: none Confederate script: | Rhythm: B/P: P: R: T: O2 sat: |
| 1:00-2:00 (State 2) | Induction | Simulator voice: none Confederate script: | Rhythm: B/P: P: R: T: O2 sat: |
| | | | Rhythm: B/P: P: R: T: O2 sat: |

Section 5: Debriefing & Evaluation

Debriefing

| Reaction | ns |
|----------|---|
| 1. | What Happened? |
| 2. | How did you feel about? |
| Underst | anding (advocacy/inquiry) |
| 1. | What were you thinking when happened? |
| 2. | It looked to me that? |
| 3. | I felt that you? |
| 4. | I saw you do/use? |
| 5. | What led you down that road? |
| 6. | Has this happened in your practice, if so how was it addressed? |
| 7. | Now that you have completed this simulation, how will this (if any) |
| | change your practice? |
| Summar | у |
| 1. | What did you do well? |
| 2. | What could you have done better/differently? (+/▲) |
| 3. | Takeaway |

Teaching Points

| I | Pathophysiology/etiology | | Corresponding Learning Objective |
|---------------|--------------------------|-------|----------------------------------|
| | • | | |
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| | • | | |
| <u>Evalua</u> | <u>ition</u> | | |
| X | Instructor Evaluation | Pre-T | 'est |
| | Performance Checklist | Post- | Гest |
| | BAT | Team | Evaluation |
| | ANTS | | |

Section 6: Instructor's Notes

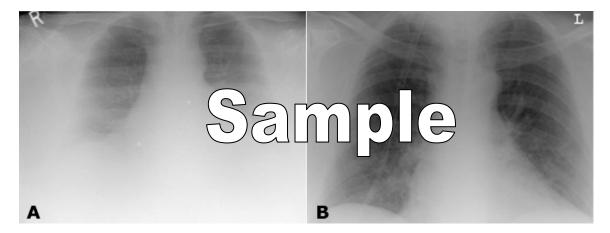
- Ensure the simulation environment is properly set-up (see section 3)
- Orientation (start of session) done in operating room
- Create a simulated OR environment

Briefing at start of session

- Capabilities of simulator and simulation environment (done by simulation specialists)
- Instructor the learner to call out all medications that are to be given and the associated dosages
- 3. Discussion of resources available
- 4. The learner should not assume there is a problem with the simulator
- 5. Establish a safe environment by explaining this is a training environment
- 6. Learner will sign both a consent and a video recording policy letter

Appendix A Imagery File Descriptions

Chest X-ray



Just a CXR of obese male with poor penetration, and panel B is better penetration (if they ask for a new CXR)

Appendix B

Handout: Labs

CBC

WBC: 7.2 cells/uL Hgb: 10.5 g/dL

Hct: 32%

Plt: 280,000 cells/uL



Chemistry

Na: 138 mEq/L K: 4.1 mEq/L Cl: 101 mmol/L HC03: 25 mmol/L BUN: 11 mg/dL Cre: 1.1 mg/dL Gluc: 122 mg/dL CA: 10.1 mg/dL Mg: 2.0 mg/dL Phos: 3.1 mg/dL

Coagulation Panel

PT: 11 sec PTT: 27.1 sec INR: 1.1

UA (probably will not ask for this)

Prot: 78 mg/dL Gluc: 89 mg/dL Leuk: Neg Nitrite: Neg WBC: <2/hpf RBC: 0/hpf Bacteria:none



Cardiac Enzymes

Total CK: 51U/L (normal) TropI: <.01 ng/mL (normal) CK-MB: 3.4 ng/mL (normal)

Brain Naturietic Peptide (BNP)

2pg/mL

ABG

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(if patient progresses to loss of consciousness/cardiac arrest)
pH 7.28
pCO2 44
pO2 85
HCO3 20
(if pt is resuscitated)
pH 7.38
pCO2 38
pO2 160
HCO3 23
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