

Preliminary Information for Student Preparation

Patient Data

Patient Name, Age, and Gender:	Jack Frost 45 y/o male
Date of Birth:	June 22, 1963
Medical Records #:	0001
Chief Complaint:	V. Fib Cardiac arrest
History of Present Illness:	45 y/o male patient complaining of severe sharp chest pain with radiation to the left arm. Three minutes prior to EMS arrival, pt collapsed and bystander CPR (compression only) was initiated. Upon EMS arrival, ACLS guidelines were initiated for VF; pt was given 2 mg of epinephrine, intubated, defibrillated 2 times and ROSC was achieved. Pt was given 2 liters of cooled NS in the field.
Past Medical History:	HTN, DM, CAD
Current Medications:	<ol style="list-style-type: none"> 1. Lopressor 25 mg PO BID 2. ASA 81mg PO Every day
Allergies:	NKDA
Height / Weight	5' 10" / 70KG
Levels Of End Of Life Care:	Full Code

Scenario Data

Admission Date:	Today
Admission Diagnosis:	V. Fib arrest
Admitting Physician:	Dr. Feelgood
Admission Orders:	<ul style="list-style-type: none"> • See Therapeutic Hypothermia order set

Procedures Performance Evaluation Checklists & Learning Objectives

Procedures Performance Evaluation Checklists:	AACN procedures: <ol style="list-style-type: none"> 1. #59 Arterial Catheter Insertion (Assist), Care and Removal 2. #86 Bispectral Index Monitoring 3. #60 Blood Sampling From an Arterial Catheter 4. #66 Central Venous/Right Atrial Pressure Monitoring 5. #65 Central Venous Catheter Site Care
Learning Objectives:	By the end of this scenario, the participant will be able to: <ol style="list-style-type: none"> 1. Determine appropriate nursing and medical interventions <ol style="list-style-type: none"> a. Titration of antilytic drips b. Titration of analgesic drips 2. Describe the appropriate hypothermia care for patients after a cardiac arrest, based on the protocol approach. 3. Recall safety issues and risks for mild therapeutic hypothermia care. 4. Integrate theoretical knowledge from sciences and nursing into professional practice. 5. Utilizes evidence base, critical thinking, and the nursing process as a framework for patient care. 6. Determine nursing priorities by formulating an individualized hypothermia plan of care. 7. Evaluate the effectiveness of therapeutic interventions and makes appropriate care choices accordingly.

Scenario Development	
<p>Summary of Scenario Stage by Stage</p> <p>Please use "<u><i>Scenario Progression</i></u>" sheets for Stage by Stage Details</p>	<ol style="list-style-type: none"> 1. Is critical but stable, on ventilator & drips (gtt) Versed & Fentanyl. A line/CVP/NGT/Foley and BIS in place. Participants to place Arctic Sun device. 2. Temp drops, pt. shivers and becomes unstable 3. After titration of gtt's and addition of Demerol pt stabilizes and temp drops to 33°C <p>For ICU only</p> <ol style="list-style-type: none"> 4. Re-warming phase begins and Arctic Sun device is set to warm. 5. Patient begins to shiver and drops BP. Immediately give fluids. 6. Patient is re-warmed and stable.
Simulator Required:	iStan with all fluids
Equipment Required:	<ol style="list-style-type: none"> 1. 1 triple IV pump or 3 regular pumps 2. 2 pressure bags for rapid infusion of fluids 3. 2 pressure bags for pressure lines 4. Vigileo simulator laptop with extra monitor display 5. ETT Tube (shortened) with Fixator, ETT Connector, and short Large-bore tubing 6. Arctic Sun Cooling Device 7. Arctic Sun Cooling Pads 8. Arctic Sun Temperature Generator
Supplies Required:	<ol style="list-style-type: none"> 1. A-Line set up with drain tubing for manikin 2. Triple channel CVP set up with drain tubing for manikin 3. Foley catheter for manikin 4. NGT with suction canister for manikin 5. IV primary tubing 6. Hypothermia Order Set with Policy and Procedures 7. Esophageal Temperature Probe 8. 1 box of 10ml pre-filled syringes for bolus meds 9. 1 box of 1 liter 0.9% NS bags for fluid infusion 10. 1 pack of 100ml 0.9% NS bags for drips 11. 3 – 250mL 0.9% NS bags for drips
Medications Required:	<p>Simulated drugs needed:</p> <ol style="list-style-type: none"> 1. Nimbex – (1mg/1mL) labels for bolus 2. Fentanyl – (20mcg/1mL) labels for bolus 3. Fentanyl – (1mg in 100mL) labels for drip bags 4. Versed – (1mg/1mL) labels for bolus 5. Versed – (100mg/100mL) labels for drip bags 6. Demerol – (2.5mg/1mL) labels for bolus 7. Magnesium – (2gm in 100ml NS) labels for drip bags 8. Albumin 5% in 250mL labels for drip bags 9. Calcium Chloride (100mg-1mL) labels for bolus
Lab Reports:	<ul style="list-style-type: none"> • See scenario progression
X-Ray Reports:	<ul style="list-style-type: none"> • See scenario progression
ECG Reports:	<ul style="list-style-type: none"> • See scenario progression
Physician Admission/Progress Notes:	<ul style="list-style-type: none"> • SEE Therapeutic Hypothermia order set

References:

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- American Heart Association (2008). *ACLS Resource Text for Instructors and Experienced Providers*. Dallas, TX: American Heart Association. (American Heart Association, 2008)
- American Heart Association (2005). Postresuscitation Support. *Circulation: Journal of the American Heart Association*, 112, 84-88. doi:10.1161/CIRCULATIONAHA.105.166560
- Bernard, S. (2006). Therapeutic Hypothermia after Cardiac Arrest. *Neurologic Clinics*, 24, 61-71.
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- Pyle, K., Pierson, G., Lepman, D., & Hewett, M. (2007). Keeping Cardiac Arrest Patients Alive with Therapeutic Hypothermia. *American Nurse Today*, 2(7), 32-36.