

Critical Care Nursing Core Competency Individual Assessment

Name: _____ Orientation Start Date: _____ Completion Date: _____

Instructions: Pre-Assessment-the nurse will rate each knowledge, skill, or attitude (KSA) from 1 (novice) to 5 (expert) in each box. Following orientation or training, the nurse and preceptor will collaboratively provide a post-assessment. **Bold/asterisked ()** KSAs must be rated "competent" for independent practice.

Competency (Knowledge, Skill, Attitude)	Assessment		Method	Comments	References (See Appendix A)
	Pre	Post			
Foundational/Generic Nursing Competencies (consistent for all RNs)	CRITICAL THINKING:		Demonstrates common nursing skills, knowledge, and attitudes for safe and effective independent nursing practice		
Identifies signs and symptoms of Traumatic Brain Injury. Demonstrates awareness of early cognitive and behavioral changes					2: Chapters; 1,10,11
Identifies signs and symptoms of Post-Traumatic Stress Disorder. Demonstrates awareness of early cognitive and behavioral changes					
Critically reviews patient or family past and planned deployment cycle and any change in <u>substance</u> use/misuse					
Apply operational/occupational stress control concepts to assess patients, peers, and units. Applies Stress First Aid to patients, peers, and units.					
Cardiovascular and Hemodynamic disorders	CRITICAL THINKING:		Able to assess, care for, manage, evaluate, and troubleshoot cardiovascular and hemodynamic disorders and equipment; identify and appropriately respond to potential or actual life-threatening cardiovascular/hemodynamic emergencies		
Continuous and 12-lead cardiac monitoring		*			1: Cardiovascular Disorders, Lesson II; 2: Chapter 3 3: Chapters 57,60
Hemodynamic monitoring, including waveform interpretation		*			1: Cardiovascular Disorders, Lesson II; 2: Chapter 3 3: Chapters 63,67,70,76
Cardiac Disorders:					
• ACS		*			1: Cardiovascular Disorders, Lesson III; 2: Chapter 3
• Cardiac contusion		*			
• Cardiogenic shock		*			1: Multi-system Disorders, Lesson I
• Cardiomyopathy		*			1: Cardiovascular Disorders, Lesson III; 2: Chapter 3
• Heart failure		*			1: Cardiovascular Disorders, Lesson III; 2: Chapter 3
• Hypertensive crisis		*			2: Chapter 3
• Pulmonary edema		*			1: Cardiovascular Disorders, Lesson III; 2: Chapter 2,3
• Alular disease		*			1: Cardiovascular Disorders, Lesson III; 2: Chapter 3
Pulmonary	CRITICAL THINKING:		Able to assess, care for, manage, evaluate, and troubleshoot pulmonary disorders and equipment; identify and appropriately respond to potential or actual life-threatening pulmonary emergencies		
Respiratory Disorders:					
• Acute Lung Injury (ALI)/ARDS		*			1: Pulmonary Disorders, Lesson II; 2: Chapter 2
• COPD		*			1: Pulmonary Disorders, Lesson II; 2: Chapter 2
• Flail chest		*			

Self-Assessment

- 1 = **Novice** (minimal skills, knowledge & judgment. Rigid)
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Evaluation Method

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I = Interactive Class
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• Hemo/Pneumothorax		*			1: Pulmonary Disorders, Lesson II; 2: Chapter 2
• Pneumonia		*			1: Pulmonary Disorders, Lesson II; 2: Chapter 2
• Pulmonary contusion		*			
• Pulmonary embolism		*			1: Pulmonary Disorders, Lesson II; 2: Chapter 2
• Respiratory insufficiency/failure		*			1: Pulmonary Disorders, Lesson II; 2: Chapter 2
Airway management and respiratory therapies, including indications, expected outcomes, contraindications, and equipment troubleshooting:					
• Airway adjuncts (laryngeal mask, naso/oropharyngeal airways)		*			1: Pulmonary Disorders, Lesson III; 2: Chapter 2; 3: Chapters 1,7,10,11
• Artificial Airways:					
o Cricothyroidotomy					3: Chapter 9
o Endo/Orotracheal		*			1: Pulmonary Disorders, Lesson III; 2: Chapter 2; 3: Chapters 3,4,6,13
o Tracheostomy		*			1: Pulmonary Disorders, Lesson III; 2: Chapter 2; 3: Chapters 13, 14
• Closed Chest Drainage Systems		*			1: Pulmonary Disorders, Lesson II; 2: Chapter 2; 3: Chapters 21,24
• Continuous End-Tidal CO2 Monitoring					2: Chapter 2; 3: Chapter 15
• Continuous Pulse Oximetry		*			2: Chapter 2; 3: Chapter 17
• Conventional Mechanical Ventilation		*			1: Pulmonary Disorders, Lesson III; 2: Chapter 2; 3: Chapters 3,6,12,32
• Endotracheal intubation, including Rapid Sequence Intubation (RSI), and extubation		*			1: Pulmonary Disorders, Lesson III; 2: Chapter 2; 3: Chapters 3, 6
• Nebulizer Therapy		*			1: Pulmonary Disorders, Lesson III; 2: Chapter 2
• Oxygen Therapy		*			1: Pulmonary Disorders, Lesson III; 2: Chapter 2
Neurological/Neurosurgical	CRITICAL THINKING: Able to assess, care for, manage, evaluate, and troubleshoot neurological/neurosurgical disorders and equipment; identify and appropriately respond to potential or actual life-threatening neurological/neurosurgical emergencies				
Neurological Disorders:					
• CVA/Intracranial Hemorrhage					2: Chapter 4; Trauma Nursing Core Course (TNCC)
• Guillain-Barre Syndrome					4
• *Head Injury/Trauma (Closed, TBI)		*			
• Hyper/Hypothermia					
• *Increased Intracranial Pressure		*			
• Infections (encephalitis, meningitis)					
• Seizures					

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	Pre	Post			
<ul style="list-style-type: none"> *Spinal Cord Injury (including cervical spine stabilization and care for patient requiring spinal immobilization device) 		*			
Understands and implements measures to minimize secondary brain injury (environmental control, MAP sustainment, oxygenation, positioning, temperature management)					
Renal	CRITICAL THINKING: Able to assess, care for, manage, evaluate, and troubleshoot renal disorders and equipment; identify and appropriately respond to potential or actual life-threatening renal emergencies				
Renal Disorders:					
<ul style="list-style-type: none"> Acid-Base Imbalances 					1: Renal Disorders, Lesson I; 2: Chapter 5
<ul style="list-style-type: none"> Electrolyte Imbalances 					1: Renal Disorders, Lesson II; 2: Chapter 5
<ul style="list-style-type: none"> Renal Insufficiency/Acute Renal Failure 					1: Renal Disorders, Lesson III; 2: Chapter 5
Gastrointestinal and Nutrition	CRITICAL THINKING: Able to assess, care for, manage, and evaluate gastrointestinal/nutrition disorders; identify and appropriately respond to potential or actual life-threatening gastrointestinal/nutrition emergencies				
GI/Nutrition Disorders:					
<ul style="list-style-type: none"> *Acute abdomen 		*			1: Gastrointestinal Disorders, Lesson II; 2: Chapter 8
<ul style="list-style-type: none"> *Abdominal compartment syndrome 		*			2: Chapter 8; 3: Chapter 106
<ul style="list-style-type: none"> *GI bleed 		*			1: Gastrointestinal Disorders, Lesson II; 2: Chapter 8 3: Chapter 104,105,110
<ul style="list-style-type: none"> Hepatic failure 					1: Gastrointestinal Disorders, Lesson II; 2: Chapter 8
<ul style="list-style-type: none"> *Open abdominal wounds 		*			2: Chapter 8
<ul style="list-style-type: none"> Pancreatitis 					1: Gastrointestinal Disorders, Lesson II
GI/Nutrition Therapies:					
<ul style="list-style-type: none"> *Manages various GI tubes (PEG,NG, OG, J, colostomies) 		*			2: Chapter 8 3: Chapters 132,133,134
<ul style="list-style-type: none"> Altered nutritional requirements (post-op, weaning, wounds) 					1: Gastrointestinal Disorders, Lesson III; 2: Chapter 8
<ul style="list-style-type: none"> Supplemental nutrition (enteral or parenteral nutrition) 					1: Gastrointestinal Disorders, Lesson III; 2: Chapter 8 3: Chapters 132,133,134

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Endocrine	CRITICAL THINKING: Able to assess, care for, manage, and evaluate endocrine disorders; identify and appropriately respond to potential or actual life-threatening endocrine emergencies				
Endocrine Disorders:					
• Diabetes Insipidus					1: Endocrine Disorders, Lesson II; 2: Chapter 6; 18: Insulin Therapy
• SIADH					
• Diabetes Mellitus					
• Diabetic Ketoacidosis					
• HHNS					
• Thyroid Storm					
Hematologic	CRITICAL THINKING: Able to assess, care for, manage, and evaluate hematologic disorders; identify and appropriately respond to potential or actual life-threatening hematologic emergencies				
Hematologic Disorders:					
• DIC					1: Hematologic Disorders, Lesson II; 2: Chapter 7
• Thrombocytopenia					
• HIT					
* Blood product infusion, including auto-transfusion		*			2: Chapter 7 3: Chapters 115
Integumentary and Burns	CRITICAL THINKING: Able to assess, care for, manage, and evaluate integumentary disorders and burns; identify and appropriately respond to potential or actual life-threatening integumentary emergencies and burns				
Integumentary Disorders:					
• Skin breakdown: Identifies risk for skin breakdown, especially in patients being transported, and implements preventive measures					3: Chapter 123,130
• Burns: Initial TBSA % assessment, fluid management, dressings, infection control, complications					3: Chapters 119,120,121
• *Open and closed surgical and non-surgical wounds		*			3: Chapters 125,126,128,129,131
Vascular Access/Line Management:					
• *Set-up, care, removal, blood sampling		*			3: Chapters 62-66, 68, 69, 82, 84, 85
Musculoskeletal	CRITICAL THINKING: Able to assess, care for, manage, and evaluate musculoskeletal disorders; identify and appropriately respond to potential or actual life-threatening musculoskeletal emergencies				
Musculoskeletal Disorders:					
• Amputations					3: Chapters 122, 124, 125, 126
• *Compartment Syndrome		*			3: Chapter 122
• Rhabdomyolysis					
Musculoskeletal Therapies:					
• Doppler Devices					
• *Dressings/Wounds		*			3: Chapters 119-121,125,126,128,129
• External Fixators					3: Chapter 97-99
• *Splints		*			
• Peripheral Nerve Blocks (assist)		*			3: Chapter 100
• *Traction					
Multi-System Disorders	CRITICAL THINKING: Able to assess, care for, manage, and evaluate multi-system disorders; identify and appropriately respond to potential or actual life-threatening multi-system emergencies				

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Multi-System Disorders:					
• Multi-Organ Dysfunction Syndrome (MODS)		*			1: Multi-System Disorders, Lesson II; 2: Chapter 9
• Shock:					
o Hypovolemic Shock		*			
o Septic Shock		*			
• SIRS/Sepsis/Severe Sepsis (signs, symptoms, treatments, and protocols)		*			1: Multi-System Disorders, Lesson II; 2: Chapter 9
Age-related needs (pediatric, geriatric: emergencies, IV access, fluid administration, medication administration, airway/ventilation management, I/O monitoring)		*			1: Multi-System Disorders, Lesson III; 2: Chapter 9
Implements pain and sedation management strategies for variety of patients with pain control and/or sedation needs, including pain management via epidural catheters		*			1: Multi-System Disorders, Lesson IV; 2: Chapter 9; 3: Chapters 101, 102, 103
• Management of Overdose					
Understands and implements measures to prevent secondary complications: DVT prophylaxis, PUD prophylaxis					
Laboratory Values	CRITICAL THINKING: Able to identify normal/abnormal laboratory values; appropriately respond to potential or actual life-threatening abnormal laboratory values				
*Able to differentiate normal/abnormal values, interpret results, and recognize appropriate interventions for abnormal ABGs, cardiac enzymes, CBC, coagulation panels, electrolytes		*			1: Cardiovascular Disorders, Lesson I; Pulmonary Disorders, Lesson I; Renal Disorders, Lesson II; Gastrointestinal Disorders, Lesson I; Endocrine Disorders, Lesson I; Hematologic Disorders, Lessons I, II
Pharmacology	CRITICAL THINKING: Able to safely administer critical care pharmacotherapeutics				
Able to describe the indications, expected effects, adverse/side effects, and demonstrate appropriate administration of analgesics, antiarrhythmics, anxiolytics, beta blockers, calcium antagonists, inotropes, neuromuscular blocking agents, sedatives, vasodilators, vasopressors		*			1: Multi-System Disorders, Lesson IV; 2: Chapters 2-9 3: Chapter 139
Describe the indications, expected effects, adverse/side effects, and demonstrate appropriate administration of electrolytes (calcium, magnesium, potassium) and insulin		*			2: Chapters 5, 6, 8
Describe the indications, expected effects, adverse/side effects, and demonstrate appropriate administration of IV anticonvulsants, diuretics (Mannitol), and steroids		*			2: Chapter 4
Post-Anesthesia Care	CRITICAL THINKING: Able to assess, care for, manage, evaluate, and troubleshoot care of patients recovering from anesthesia; able to identify and appropriately respond to potential or actual life-threatening post-anesthesia emergencies				

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	Pre	Post			
*Able to care for patient receiving or recovering from moderate (conscious) sedation, deep sedation, general anesthesia, or epidural anesthesia.		*			6; 7
Understands and utilizes ASPAN Guidelines and appropriately manages care					
*Demonstrates airway management in the post-anesthesia patient		*			6; 7
Demonstrates care of post-operative nausea and vomiting					5; 7
*Demonstrates care of post-operative pain and discomfort		*			6; 7
Demonstrates care of post-operative hypothermia					
Patient Transport	Critical Thinking: Able to identify need, prepare, and care for patient requiring (intra- or inter-hospital) transport				
Performs assessment, anticipates and prepares for needs: <ul style="list-style-type: none"> • Medications • Supplies • Documentation[H&P, diagnostics, labs/tests, medical plan] • Secures airway • Provides for adequate respiratory function • Secures invasive lines • Provides for spinal immobilization as needed • Reinforces dressings • Knowledgeable in the use of transport equipment (airworthy NATO litters, IV pump, monitor/defibrillator, SMEED, suction, ventilator) • Provides for adequate pain control/sedation • Anticipates and provides for post-transport issues and needs (i.e., jet lag). 					
Psychosocial and End-of-life needs	CRITICAL THINKING: Able to assess, care for, manage, and evaluate psychosocial and end-of-life needs; identify and appropriately respond to potential or actual life-threatening mental health emergencies				
Able to recognize mental health disorders (depression, ICU psychosis, PTSD) and respond appropriately to emergencies (suicidal ideation, suicidal attempts)					12
Patient's understanding and wishes related to advance directives and end-of-life care, including cultural and religious beliefs					3: Chapter 136, 137 10 12
Withholding/withdrawing life-sustaining treatment					3: Chapter138 10 11 12
Identification of potential organ donors					3: Chapter 136
Care of the organ donor					10 11 12
States hospital's Do Not Resuscitate policy					10
Evidence-Based Practice	CRITICAL THINKING: Able to comprehend and implement evidence-based practices				
AACN Practice Alerts					16

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Competency (Knowledge, Skill, Attitude)	Assessment		Method	Comments	References (See Appendix A)
	Pre	Post			
Catheter Associated UTI					22
Central Line Bundle					11; 17
Healthy Work Environment					17; 18
Intensive Insulin Therapy					11; 19
Sepsis Bundle					20
Ventilator and VAP Bundles					21

Recommended Result

Result	Total Post-Assessment Points (520 points max of 104 items)	Outcome
	104 - 156	Novice
	157 – 260	Advanced beginner
	261 – 364	Competent
	365 – 468	Proficient
	469 -520	Expert

All Competency knowledge, skills, and attitudes marked in **bold** with an asterisk (*) are critical for independent professional nursing practice; they must be rated “competent” or above for the nurse to be overall “competent”.

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Critical Care Nursing Core Competency

Appendix A: References

1. AACN Essentials of Critical Care Orientation
2. AACN Core Curriculum for Critical Care Nursing
3. AACN Procedure Manual for Critical Care
4. The Clinical Practice of Neurological and Neurosurgical Nursing
5. ASPAN: PeriAnesthesia Nursing Core Curriculum: Preoperative, Phase I and Phase II PACU Nursing
6. ASPAN Standards of Perianesthesia Nursing Practice
7. ASPAN's Evidence-Based Clinical Practice Guideline for the Prevention and/or Management of PONV/PDNV
8. AACN Guidelines for Transfer of the Critically-Ill Patient
9. Command Specific Instructions
10. ICU Standards Manual (unit-specific nursing policies)
11. Nursing Standards Manual (command nursing policies)
12. Nursing Procedure Manual (command nursing procedures)
13. ICU Procedure Manual (unit-specific nursing procedures not covered in AACN Procedure Manual)

Internet References

14. AACN Practice Alerts: <http://www.aacn.org/wd/practice/content/practicealerts.pcms?menu=practice>
15. Central Line Bundle: <http://www.ih.org/resources/Pages/Changes/ImplementtheCentralLineBundle.aspx>
16. AACN Healthy Work Environments: <http://www.aacn.org/wd/hwe/content/hwehome.pcms?menu=hwe>
17. Implement Effective Glucose Control: <http://www.ih.org/resources/Pages/Changes/ImplementEffectiveGlucoseControl.aspx>
18. Sepsis Bundle: <http://www.ih.org/resources/Pages/Tools/SevereSepsisBundles.aspx>
19. Ventilator Bundle: <http://www.ih.org/resources/Pages/Changes/ImplementtheVentilatorBundle.aspx>
20. Catheter Associated Urinary Tract Infections: <http://www.ih.org/resources/Pages/Tools/CompendiumofStrategiestoPreventHAIsinHospitals.aspx>

Note: references provided are illustrative and may be substituted for locally held alternates. In the absence of a standardized Nursing Procedural Manual, use your command standard such as the following:

- Mosby Nursing Skills [Web Based Procedure Manual by Subscription]. Available at <http://www.mosbynursingskills.com>
- Springhouse Nursing Procedures [Web Based or local cached Procedure Manual by Subscription] Available at <http://LWW.com/LNPS>
- Perry, A. G. & Potter, P.A. (2008) *Clinical Nursing Skills & Techniques*, 8th ed. Elsevier Mosby, St. Louis.
- Springhouse, *Lippincott's Manual of Nursing Practice*, 10th ed. Lippincott Williams & Wilkins

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Critical Care Nursing Core Competency

Appendix B: Advanced Critical Care Competency for Medical Centers

Competency	Assessment		Method	Comments	References
	Pre-	Post-			
Assess and care for the patient with psychosocial and end-of-life needs	CRITICAL THINKING: Able to assess, care for, manage, and evaluate psychosocial and end-of-life needs; identify and appropriately respond to potential or actual life-threatening mental health emergencies				
Renal replacement therapies, including indications, expected outcomes, contraindications, and equipment troubleshooting					1: Renal Disorders, Lesson III; 2: Chapter 5; 3: Chapter 112
Pre- and post-procedure specific to unit, including indications, expected outcomes, contraindications, and equipment troubleshooting:					
• Cardiac catheterization					1: Cardiovascular Disorders, Lesson IV; 2: Chapter 3
• Cardiothoracic/cardiovascular surgery					1: Cardiovascular Disorders, Lesson IV; 2: Chapter 3
• Intra-Aortic Balloon Pump (ABP) therapy					2: Chapter 3; 3: Chapter 55
• Pacemaker insertion (permanent, temporary)					1: Cardiovascular Disorders, Lesson IV; 2: Chapter 3; 3: Chapters 51,52,54
• Percutaneous Coronary Interventions (PCI)					1: Cardiovascular Disorders, Lesson IV 2: Chapter 3
ICP monitoring, including indications, expected outcomes, contraindications, troubleshooting equipment, waveform identification					2: Chapter 4; 3: Chapter 89,92 5
Ventriculostomy, including indications, expected outcomes, contraindications, system set-up, leveling, site care					
Manage patients undergoing continuous renal replacement therapy					
Manage the patient with severe burns					
Manage patients S/P surgical or traumatic amputation					
Population-specific care					
• Obstetrics					
• Pediatric care					

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Critical Care Nursing Core Competency Appendix C: Remedial Case Study

Instructions: The nurse and preceptor/evaluator will select a representative case to review in-depth to demonstrate coherent awareness, critical judgment, and critical thinking skills.

OUTLINE	POSSIBLE SCORE	SCORE
Admission Data <ul style="list-style-type: none"> • Age, gender, diagnosis • Date, time of ICU admission • Chief complaint/presentation • History of present illness • Status prior to transfer • Emergency course 	25	
History <ul style="list-style-type: none"> • Social • Medical • Surgical • Medications/devices used at home 	10	
Physical Assessment/Data Interpretation <ul style="list-style-type: none"> • Completed physical assessments • 24 hours data collection/interpretation: VS, vent, I&O, hemodynamics, labs 	25	
Nursing Diagnoses <ul style="list-style-type: none"> • Identify 3 diagnoses 	5	
Discussion <ul style="list-style-type: none"> • Hospital course • Pathophysiology of illness • Interventions, rationale • Medications, drips • Mechanical ventilation • Hemodynamic monitoring • Procedures (medical, surgical) • Outcome 	25	
Expected Outcomes	5	
Questions, Answers	5	

Minimum passing score is 80; if scored below 80, must repeat presentation on a different case

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5 = Expert (Consultant and super-trainer. Intuitively assesses and acts)

Evaluation Method

- D = Demonstration** Observation
I = Interactive Class
T = Test
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Critical Care Nursing Core Competency Appendix C: Remedial Case Study

Assess and care for patients with cardiovascular and/or hemodynamic disorders	
Skill Sets	Procedures
<ul style="list-style-type: none"> • Able to manage the care of patients requiring continuous cardiac monitoring • Able to manage the care of patients requiring hemodynamic monitoring (invasive arterial pressure monitoring, CVP monitoring, CO determination, fluid resuscitation) • Cares for patient with cardiac instability (ACS, cardiac contusion, cardiomyopathy, HF, pulmonary edema, valvular disease) • Cares for patient pre- and post-surgery (cardiothoracic surgery) 	<ul style="list-style-type: none"> • Electrophysiologic Monitoring: Hardwire and Telemetry • Extra Electrocardiographic Leads: Right Precordial and Left Posterior Leads • Twelve-Lead Electrocardiogram • Arterial Catheter Insertion (assist), Care, Blood Sampling, and Removal • Non-invasive Cardiac Output Measurement Techniques • Single- and Multiple-Pressure Transducer Systems • Central Venous Catheter Insertion (assist), Site Care, Pressure Monitoring, Blood Sampling, and Removal • Temporary Transvenous and Epicardial Pacing • Pericardiocentesis (assist) • Pericardial Catheter Management
Assess and care for patients with pulmonary disorders	
Skill Sets	Procedures
<ul style="list-style-type: none"> • Able to provide immediate and continual assessment and intervention to stabilize and manage patients with respiratory insufficiency/failure (ALI, ARDS, COPD, pneumonia, pulmonary embolism) and pulmonary pathology (contusion, flail chest, hemo/pneumothorax) • Able to manage the care of patients requiring airway adjuncts, artificial airways (cricothyroidotomy, endotracheal, orotracheal, tracheostomy tubes), closed chest drainage systems, continuous end-tidal CO₂ monitoring, continuous pulse oximetry, conventional mechanical ventilation, oxygen/nebulizer delivery • Assists with endotracheal intubation, including Rapid Sequence Intubation (RSI), and extubation • Understands reasons for, and implements, measures to prevent Ventilator Associated Pneumonia 	<ul style="list-style-type: none"> • Chest Tube Placement (assist) and Removal (assist) • Closed Chest Drainage System • Artificial Airway (Endotracheal, Orotracheal, Tracheostomy) Tube Care, Cuff Care, Suctioning, and Oral Care • Naso/Oropharyngeal Airway Insertion • Continuous End-Tidal Carbon Dioxide Monitoring • Oxygen Saturation Monitoring by Pulse Oximetry • Indices of Oxygenation • Ventilatory Management—Volume and Pressure Modes • Weaning Criteria and Process • Endotracheal Intubation (assist) • Extubation/Decannulation (assist) • Cricothyroidotomy and Tracheostomy Tube Insertion (assist) • Oxygen Tank Preparation and Set-Up • Needle Thoracostomy (assist) • Arterial Puncture
Assess and care for patients with neurologic disorders	
Skill Sets	Procedures
<ul style="list-style-type: none"> • Able to verbalize immediate and provide continual neurological assessment and intervention to stabilize and manage patients with CVA/intracranial hemorrhage, head injury/trauma, hyper/hypothermia, increased intracranial pressure, seizures, spinal cord injury (including cervical spine stabilization and care for patient requiring spinal immobilization device), traumatic brain injury • Able to implement nursing measures to minimize secondary brain injury (environmental control, MAP/CPP sustainment, oxygenation, positioning, temperature management) • Cares for patient requiring ICP monitoring (troubleshoot equipment, identify waveforms) • Cares for patient with ventriculostomy 	<ul style="list-style-type: none"> • External Warming/Cooling Devices • Ice-Water Caloric Testing for Vestibular Function (assist) • Intraventricular Catheter Insertion (assist), Monitoring, Care, Troubleshooting, and Removal • Neurologic Drainage and Pressure Monitoring System • Cerebrospinal Fluid Drainage Assessment

Self-Assessment

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Critical Care Nursing Core Competency Appendix D: Skill to Procedure Crossmap

Assess and care for patients with renal disorders	
Skill Sets	Procedures
<ul style="list-style-type: none"> • Able to provide immediate and continual assessment and intervention to stabilize and manage patients with acid-base imbalances, altered renal function (acute renal failure, renal insufficiency), DKA, electrolyte imbalances 	<ul style="list-style-type: none"> • None
Assess and care for patients with gastrointestinal/nutrition disorders	
Skill Sets	Procedures
<ul style="list-style-type: none"> • Able to provide immediate and continual assessment and intervention to stabilize and manage patients with acute abdomen, GI bleed, hepatic failure, open abdominal wounds, pancreatitis • Manages various GI tubes (NG, OG, J, colostomies), (open) abdominal wounds • Provides care for patients with altered nutritional requirements (post-op, weaning, wounds) • Provides care for patients receiving artificial nutrition (enteral or parenteral nutrition) 	<ul style="list-style-type: none"> • Gastric Lavage in Hemorrhage and Overdose • Intraabdominal Pressure Monitoring • Nasogastric Tube Insertion, Care, and Removal • Enteral/Parenteral Nutrition • Percutaneous Endoscopic Gastrostomy (PEG), Gastrostomy, or Jejunostomy Tube Care • Small-Bore Feeding Tube Insertion and Care
Assess and care for patients with endocrine disorders	
Skill Sets	Procedures
<ul style="list-style-type: none"> • Cares for patient with endocrine disorder (DI, diabetes mellitus, SIADH) 	
Assess and care for patients with hematologic disorders	
Skill Sets	Procedures
<ul style="list-style-type: none"> • Provides care for patient with hematologic dysfunction (DIC, thrombocytopenia, HIT) • Provides care for patient requiring blood product infusion, including auto-transfusion 	<ul style="list-style-type: none"> • Blood and Blood Component Administration • Massive Infusion Devices • Transfusion Reaction Management
Assess and care for patients with integumentary disorders/burns	
Skill Sets	Procedures
<ul style="list-style-type: none"> • Cares for patient with potential skin breakdown: Identifies risk for skin breakdown, especially in patients being transported, and implements preventive measures • Cares for patient with burns: initial TBSA % assessment, fluid management, dressings, infection control, complications • Cares for patient with open and closed surgical and non-surgical wounds 	<ul style="list-style-type: none"> • Suture Removal • Burn Wound Care • Cleaning, Irrigating, Culturing, and Dressing an Open Wound • Dressing Wounds with Drains • Vacuum-Assisted Closure (VAC) System for Wounds
Assess and care for patients with musculoskeletal injuries	
Skill Sets	Procedures
<ul style="list-style-type: none"> • Cares for patient with musculoskeletal injuries and amputations: rhabdomyolysis, traction, splints, compartment syndrome, external fixators, wounds/dressings, doppler devices 	<ul style="list-style-type: none"> • Tong and Halo Pin Site Care • Traction Maintenance • Tourniquet Use and Care • Intracompartmental Pressure Monitoring • Peripheral Nerve Block (assist)
Assess and care for patients with multi-system disorders, including those resulting from trauma	
Skill Sets	Procedures
<ul style="list-style-type: none"> • Able to provide immediate and continual assessment and intervention to stabilize and manage patients with shock (cardiogenic, hypovolemic, septic) • Able to troubleshoot and manage the care of patients requiring fluid resuscitation • Provides care for patient with clinical presentation suggestive of sepsis and/or MODS • Implements pain and sedation management strategies for variety of patients with pain control and/or sedation needs, including pain management via epidural catheters • Implements measures to prevent secondary complications: DVT prophylaxis, PUD prophylaxis 	<ul style="list-style-type: none"> • Massive Infusion Devices • Epidural Catheters: Assisting with Insertion and Infusion Management • Management of continuous infusion devices
Differentiate normal/abnormal laboratory values	

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Critical Care Nursing Core Competency Appendix D: Skill to Procedure Crossmap

Skill Sets	Procedures
<ul style="list-style-type: none"> Able to differentiate normal/abnormal values, interpret results, and recognize appropriate interventions for abnormal ABGs, cardiac enzymes, CBC, coagulation panels, electrolytes 	<ul style="list-style-type: none"> Blood sampling from vascular access devices
Safely and effectively administer critical care pharmacology	
Skill Sets	Procedures
<ul style="list-style-type: none"> Able to describe the indications, expected effects, adverse/side effects, and demonstrate appropriate administration of ACLS/emergency drugs, analgesics, antiarrhythmics (amiodarone, lidocaine), anxiolytics, beta blockers, calcium antagonists, inotropes (dobutamine, dopamine), paralytics, sedatives, vasodilators (nitroglycerine, nitroprusside), vasopressors (levophed, neosynephrine) Describe the indications, expected effects, adverse/side effects, and demonstrate appropriate administration of electrolytes (calcium, magnesium, potassium), and insulin Describe the indications, expected effects, adverse/side effects, and demonstrate appropriate administration of IV anticonvulsants, diuretics (Mannitol), and steroids 	<ul style="list-style-type: none"> Calculating Doses, Flow Rates, and Administration of Continuous Intravenous Infusions
Assess and care for patients recovering from anesthesia	
Skill Sets	Procedures
<ul style="list-style-type: none"> Cares for patient recovering from moderate (conscious) sedation, deep sedation, general anesthesia, or epidural anesthesia Able to assess patient utilizing ASPAN guidelines and appropriately manage care Able to effectively manage the airway, including recognition of laryngospasm and rapid appropriate intervention Able to properly assess and manage post-operative nausea and vomiting Able to effectively assess and manage post-operative pain and discomfort Able to properly assess and manage unplanned post-operative hypothermia 	
Assess and care for patients requiring (intra- or inter-hospital, ground or air) transport	
Skill Sets	Procedures
<ul style="list-style-type: none"> Performs assessment, anticipates and prepares for needs (meds, supplies, forms/documents, [H&P, diagnostics, labs/tests, medical plan]), secures airway, provides for adequate respiratory function, secures invasive lines, provides for spinal immobilization (as needed, reinforces dressings, knowledgeable in the use of transport equipment (airworthy NATO litters, IV pump, monitor/defibrillator, SMEED, suction, ventilator), provides for adequate pain control/sedation 	
Assess and care for the patient with end-of-life needs	
Skill Sets	Procedures
<ul style="list-style-type: none"> Ascertain patient's understanding of condition/prognosis and respects their wishes related to advance directives and end-of-life care 	<ul style="list-style-type: none"> Withholding and Withdrawing Life-Sustaining Therapy Identifies resources to assist patient, family and care givers

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Critical Care Nursing Core Competency Summary Assessment

The nurse below has demonstrated professional nursing competencies in the comprehensive assessment, planning, implementation and evaluation of care to include:

- Recognizes key symptomology of combat operational stress, PTSD, and traumatic brain injury. Identifies need for referral/evaluation of stress reduction, psychoeducation, and behavioral health interventions for the prevention of and reduction of operational stress disorders for patient or family
- Able to assess, care for, manage, evaluate, and troubleshoot cardiovascular and hemodynamic disorders and equipment; identify and appropriately respond to potential or actual life-threatening cardiovascular/hemodynamic emergencies
- Able to assess, care for, manage, evaluate, and troubleshoot pulmonary disorders and equipment; identify and appropriately respond to potential or actual life-threatening pulmonary emergencies
- Able to assess, care for, manage, evaluate, and troubleshoot neurological/neurosurgical disorders and equipment; identify and appropriately respond to potential or actual life-threatening neurological/neurosurgical emergencies
- Able to assess, care for, manage, evaluate, and troubleshoot renal disorders and equipment; identify and appropriately respond to potential or actual life-threatening renal emergencies
- Able to assess, care for, manage, and evaluate gastrointestinal/nutrition disorders; identify and appropriately respond to potential or actual life-threatening gastrointestinal/nutrition emergencies
- Able to assess, care for, manage, and evaluate endocrine disorders; identify and appropriately respond to potential or actual life-threatening endocrine emergencies
- Able to assess, care for, manage, and evaluate hematologic disorders; identify and appropriately respond to potential or actual life-threatening hematologic emergencies
- Able to assess, care for, manage, and evaluate integumentary disorders and burns; identify and appropriately respond to potential or actual life-threatening integumentary emergencies and burns
- Able to assess, care for, manage, and evaluate musculoskeletal disorders; identify and appropriately respond to potential or actual life-threatening musculoskeletal emergencies
- Able to assess, care for, manage, and evaluate multi-system disorders; identify and appropriately respond to potential or actual life-threatening multi-system emergencies
- Able to identify normal/abnormal laboratory values; appropriately respond to potential or actual life-threatening abnormal laboratory values
- Able to safely administer critical care pharmacotherapeutics
- Able to assess, care for, manage, evaluate, and troubleshoot care of patients recovering from anesthesia; able to identify and appropriately respond to potential or actual life-threatening post-anesthesia emergencies
- Able to identify need, prepare, and care for patient requiring (intra- or inter-hospital) transport
- Able to assess, care for, manage, and evaluate psychosocial and end-of-life needs; identify and appropriately respond to potential or actual life-threatening mental health emergencies
- Able to comprehend and implement evidence-based practices

Treatment Facility: _____

Date Assessed: _____

Nurse Name: _____

Assessed Competency Result: _____

Preceptor's Printed Name: _____

Signature: _____

Critical Care Nursing Advanced Competency for Medical Centers Summary Assessment

The nurse below has demonstrated professional nursing competencies in the comprehensive assessment, planning, implementation and evaluation of care to include:

- Manage patients undergoing cardiovascular interventions and therapies:
 - Cardiac catheterization
 - Cardiothoracic/cardiovascular surgery
 - Intra-Aortic Balloon Pump augmentation
 - Pacemaker insertion
 - Percutaneous Coronary Intervention (PCI)

- Manage patients with neurological/neurosurgical disorders and assist with associated interventions and therapies:
 - Head injury/trauma
 - ICP monitoring
 - Spinal cord injury
 - Ventriculostomy
- Manage patients undergoing continuous renal replacement therapy
- Manage patients with severe burns
- Manage patients S/P surgical or traumatic amputation
- Population-specific care
 - Obstetrics
 - Pediatric care

Treatment Facility: _____

Date Assessed: _____

Nurse Name: _____

Assessed Competency Result: _____

Preceptor's Printed Name: _____

Signature: _____