Trauma Ce	Trified Registered Nurse (TCRN) Examination Content Outline	Total items
1. Clinical Prac	tice: Head and Neck	33
A. Neuro	logic trauma	
1.	Traumatic brain injuries	
2.	Spinal cord injuries	
B. Maxillofacial and neck trauma		
1.	Facial fractures	
2.	Ocular trauma	
3.	Neck trauma	
2. Clinical Practice: Trunk		37
A. Thorac		
1.	Chest wall injuries	
2.	Pulmonary injuries	
3.	Cardiac injuries	
4.	,	
B. Abdominal trauma		
1.	Hollow organ injuries	
2.	Solid organ injuries	
3.	Diaphragmatic injuries	
4.	Retroperitoneal injuries	
C. Genitourinary trauma		
	rical trauma	
1.	Imminent or emergent delivery	
2.	Complications of trauma in pregnancy	
3. Clinical Practice: Extremity and Wound		25
	loskeletal trauma	
1.	Vertebral injuries	
2.	Pelvic injuries	
3.	Compartment syndrome	
4.	Amputations	
5.	Extremity fractures	
6.	Soft-tissue injuries	
B. Surface and burn trauma		
1. 2.	Chemical burns (any body part, including the eye) Electrical burns	
2.	Thermal burns	
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4.	Inhalation injuries	

4. Clinical Practice: Special Considerations		
A. Psychosocial issues related to trauma (e.g., post-traumatic stress, acute stress		
disorder, coping)		
B. Shock 1. Hypovolemic		
 Obstructive (e.g., tamponade, tension pneumothorax) 		
3. Distributive (e.g., neurogenic, septic)		
4. Cardiogenic		
C. Systemic Inflammatory Response Syndrome (SIRS)		
1. Multiple organ dysfunction syndrome (MODS)		
2. Sepsis		
3. Acute Respiratory Distress Syndrome (ARDS)		
a. Prevention and recognition		
b. Ventilation strategies		
D. Victims of domestic abuse/child abuse/elder abuse and neglect E. Bariatric		
F. Substance use		
G. Victims of violence		
1. Evidence collection and preservation		
2. Chain of custody		
H. Patients with self-inflicted injuries		
I. Comorbidities		
J. Hemostatic resuscitation		
1. Blood administration/massive transfusion		
2. Coagulant therapy		
3. Damage control		
4. Trauma triad		
K. Complications (e.g., DVT/VTE, VAP, CAUTI, TRALI) L. Special needs (e.g., developmentally and intellectually disabled)		
M. Pediatrics		
N. Geriatrics		
5. Continuum of Care for Trauma	15	
A. Injury prevention		
B. Pre-hospital care		
C. Resuscitation		
D. Patient transfer		
1. Intrafacility (within a facility, across departments)		
2. Interfacility (from one facility to another)		
E. Acute Care		
 Reassessment Consequences of resuscitation 		
 Consequences of resuscitation Tertiary exam 		
4. Nutritional support		
F. Rehabilitation (OT, PT, Speech)		
G. Discharge planning		
1. Patient/Family education		
2. Complications or barriers		

3. Home readiness (e.g., safety concerns, transition of care)		
H. End-of-life issues		
1. Organ/tissue donation		
2. Advanced directives		
3. Family presence		
4. Palliative care		
5. Brain death		
6. Professional Issues	15	
A. Trauma quality improvement		
1. Performance improvement		
a. Over and under triage		
b. Missed injuries/delay in diagnosis		
c. Mortality/morbidity reviews		
2. Trauma registry (e.g., data collection)		
3. Outcomes follow-up and feedback (e.g., referring facilities, EMS)		
4. Evidence-based practice (e.g., best practice guidelines)	_	
B. Research		
C. Documentation (e.g., clinical documentation)		
D. Patient safety		
1. Patient handoff (e.g., SBAR)		
2. Event reporting		
E. Disaster management		
1. Triage (MCI, Disaster Planning/Emergency Preparedness)		
2. Decontamination		
F. Trauma team well-being		
1. Peer support		
2. Psychological first-aid		
3. Work-life balance		
4. Staff safety (e.g., workplace violence)		
G. Regulations and standards		
 HIPAA/privacy EMTALA 		
 Designation/verification (e.g., trauma center/trauma systems) H. Education and outreach for interprofessional trauma teams, and the public 		
1. Stop the bleed		
2. Car seat safety		
I. Ethical issues		
J. Advocacy		
K. Team dynamics		
1. Communication (e.g., handoff, closed loop)		
2. Defined roles		
Overall To	tal 150	

Testable Tasks

1. Assessment

- A. Establish mechanism of injury
- B. Assess, intervene and stabilize patients with immediate life-threatening conditions
- C. Assess pain
- D. Assess for adverse drug and blood reactions
- E. Obtain complete patient history
- F. Obtain a complete physical evaluation
- G. Use Glasgow Coma Scale to evaluate patient status
- H. Assist with Focused Abdominal Sonography for Trauma (FAST) examination
- I. Calculate burn surface area
- J. Hemodynamic monitoring
- K. Assessment not otherwise specified

2. Analysis

- A. Provide appropriate response to diagnostic test results (laboratory and/or radiological)
- B. Prepare equipment that might be needed by the team
- C. Identify the need for diagnostic tests
- D. Determine the plan of care
- E. Identify desired patient outcomes
- F. Determine the need to transfer to a higher level of care
- G. Determine the need for emotional or psychosocial support
- H. Hemodynamic monitoring
- I. Analysis not otherwise specified

3. Implementation

- A. Incorporate age-specific needs for patient population served
- B. Respond with decisiveness and clarity to unexpected events
- C. Demonstrate knowledge of pharmacology
- D. Assist with or perform the following procedures:
 - 1. Airway management
 - 2. Surgical airway
 - 3. End-tidal CO2
 - 4. Needle decompression
 - 5. Chest tube
 - 6. Hemodynamic monitoring devices (e.g., arterial line, SCV02)
 - 7. Central line insertion
 - 8. Intraosseous needles
 - 9. Volume resuscitation and bleeding control
 - a. Burn fluid resuscitation
 - b. Hypertonic solution
 - c. Permissive hypotension
 - d. Massive transfusion protocol (MTP)
 - e. Autotransfusion
 - f. Blood and blood products
 - g. Tranexamic acid (TXA)
 - h. Factor replacement
 - 10. Tourniquets
 - 11. Pelvic stabilizer
 - 12. Pericardiocentesis

- 13. Bedside open thoracotomy
- 14. Resuscitative endovascular balloon occlusion of the aorta (REBOA)
- 15. Compartment syndrome monitoring devices
 - a. Abdominal
 - b. Extremity
- 16. Temperature control devices (e.g., warming and cooling)
- 17. Immobilization devices
- 18. ICP monitoring devices
- 19. Continuous Renal Replacement Therapy (CRRT)
- E. Manage patients who have had the following procedures:
 - 1. Advanced airway
 - 2. Surgical airway
 - 3. End-tidal CO2
 - 4. Needle decompression
 - 5. Chest tube
 - 6. Hemodynamic monitoring devices (e.g., arterial line, SCV02)
 - 7. Central line insertion
 - 8. Intraosseous needles
 - 9. Volume resuscitation and bleeding control
 - a. Burn fluid resuscitation
 - b. Hypertonic solution
 - c. Permissive hypotension
 - d. Massive transfusion protocol (MTP)
 - e. Autotransfusion
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 - 17. Immobilization devices
 - 18. ICP monitoring devices
 - 19. Continuous Renal Replacement Therapy (CRRT, CVVH, SLED, intermittent HD)
- F. Manage patients' pain and sedation by providing
 - 1. pharmacologic interventions
 - 2. non-pharmacologic interventions
- G. Provide complex wound management
 - 1. Ostomies
 - 2. Drains
 - 3. Wound VAC
 - 4. Open abdomen
 - 5. Amputations
- H. Implementation not otherwise specified

4. Evaluation

- A. Evaluate patients' response to interventions
- B. Monitor patient status and report findings to the team
- C. Adapt the plan of care as indicated
- D. Evaluation not otherwise specified

5. Continuum of Care

- A. Ensure proper level of care for injured patients
- B. Restore patient to optimal health
- C. Coordinate the multidisciplinary plan of care
- D. Involve patient and family in care, teaching, and discharge planning
- E. Recognize need for social/protective service consults
- F. Participate in multi-disciplinary rounds
- G. Provide trauma patients and their families with psychosocial support
- H. Provide information to patient and family regarding community resources
- I. Continuum of Care not otherwise specified

6. Professional Issues

- A. Monitor, implement, and evaluate for opportunities for improvement related to:
 - 1. patient outcomes
 - 2. trauma programs
 - 3. trauma systems
- B. Maintain the performance improvement programs
- C. Collect, analyze, and use data for the purpose of:
 - 1. improving patient outcomes
 - 2. benchmarking
 - 3. decreasing incidence of trauma
- D. Research
- E. Adhere to regulatory requirements related to trauma center verification/designation
- F. Participate in and promote continuing competency
- G. Act as an advocate (e.g., for patients, families, and colleagues) related to ethical, legal, cultural, and psychosocial issues
- H. Professional Issues not otherwise specified