

## UT SOUTHWESTERN DEPARTMENT OF SURGERY

### TECHNICAL SKILLS COURSE OUTLINE

Course Title: Advanced Trauma Life Support

Course Director: Name: Shahid Shafi, M.D.  
Specialty: Surgery

Additional Course Faculty: Name: BTCC Faculty and Fellows  
Specialty: Surgery

Participants: Specialty: Surgery  
Level: PGY 1 – just prior to start of clinical duties  
Number of participants for the entire course:

Expected Attendance: 39

Duration of Each Session (max 2 hrs): 1 time/ 2 day course  
# of Trainees per session: 39

#### Course Completion Verification –

Course participants must attend didactic and hands-on portions of the course and pass written and practical proficiency tests.

#### Self-study or Self-practice (is self-study or self-practice an expectation of this course?)

Yes – Course manual to be read pre-course

Self-study component(s):

Estimated time requirements for self-study: 3 hrs.

During what phase(s) of the course is self-study to be completed? Pre-course

Self-practice component(s): No

Estimated time requirements for self-practice:

During what phase(s) of the course is self-practice to be completed?

Training Location(s): E6.200

Equipment/Simulator(s): ATLS simulators

Other Resources (Textbooks, CD-ROMS, Videos, etc): ATLS manual

#### Educational Scope:

Skills –

Component(s): Surgical airway, chest tube insertion, DPL performance

Cognitive –

Component(s): Initial care and stabilization of the injured patient

Judgement: Through clinical scenarios, trainees will prioritize treatment of the injured patient

### Learning Objectives:

- A. Demonstrate concepts and principles of primary and secondary patient assessment.
- B. Establish management priorities in a trauma situation.
- C. Initiate primary and secondary management necessary within the “golden hour” for the emergency care of acute life-threatening emergencies.
- D. Demonstrate, in a given simulated clinical and surgical skill practicum, the following skills used in the initial assessment and management of patients with multiple injuries:
  1. Primary and secondary assessment of a patient with simulated, multiple injuries
  2. Establishing a patent airway and initiating one-and two-person ventilation
  3. Orotracheal and nasotracheal intubation on adult and infant manikins
  4. Pulse oximetry and carbon dioxide monitoring
  5. Cricothyroidotomy
  6. Assessment and management of the patient in shock, including initiation of percutaneous venous access and recognition of life-threatening hemorrhage
  7. Pleural decompression via needle thoracentesis and chest tube insertion
  8. Pericardiocentesis
  9. X-ray identification of thoracic injuries
  10. Peritoneal lavage, ultrasound, and CT evaluation of the abdomen
  11. Head and neck trauma assessment and management with Glasgow Coma Scale scoring
  12. Identification of intracranial lesions by CT scan
  13. X-ray identification of spine injuries
  14. Neurotrauma evaluation
  15. Musculoskeletal trauma assessment and management

Summary of Curriculum, Teaching Methods, and Resource Utilization: Didactic and hands-on experience with initial assessment, stabilization and treatment of the injured patient. Basic resuscitative skills listed above will be taught.

### Methods for giving feedback to learners (Formative and Summative):

Immediate response by instructor

### Methods for Assessment of Learners:

Post Test (written) and successful completion of triage scenarios. Completion of airway refresher during Anesthesiology rotation

Methods for Remediation: (How are individuals who need remediation identified and how is remediation facilitated?)

Re-testing (written) or repeat triage scenario.

### Methods of Course Evaluation:

By Learners: E-Value online system

By Faculty: E-Value online system

### Materials:

ATLS manuals

Simulator

Chest tubes, catheters, moulage victims