



## TRAUMA SKILLS

### I. OBJECTIVES

*By the end of this laboratory session participants should be able to . . .*

- (1) Understand the technique of surgical cricothyroidotomy and tracheotomy.
- (2) Understand the technique of chest tube insertion.
- (3) Understand various techniques of peripheral venous access.
- (4) Understand the techniques of diagnostic peritoneal lavage.
- (5) Understand the technique of emergency thoracotomy.

### II. ASSUMPTIONS

Familiarity with scalpels and other surgical instruments, electrocautery, needles, catheters and syringes.

### III. SUGGESTED READING

Anatomy atlas of your choice as well as any information regarding emergency surgical procedures.

### IV. ANATOMICAL CONSIDERATION

As above.

### V. DESCRIPTION OF LABORATORY MODULE

Residents, under instruction from attending surgical faculty, will assist each other in performing trauma skills listed above on an anesthetized pig.

### VI. DESCRIPTION OF TECHNIQUE/PROCEDURE

- (1) Isolate trachea, insert endotracheal tube and assess ventilation.
- (2) Insert chest tubes. Discuss management.
- (3) Using Site Rite ultrasound or palpation, insert venous access catheters at available sites.
- (4) Perform diagnostic peritoneal lavage (DPL).
- (5) Perform thoracotomy and aortic cross-clamp.

## VII. EQUIPMENT NEEDED

- (1) Anesthetized pig (60-70 lbs.)
- (2) Surgical instrument trays, electrocautery, suction
- (3) Trauma Kit, DPL Kit, chest tubes (36 Fr), ET tubes (6 Fr)

## VIII. REFERENCES

Surgical Skills Manual.  
Surgical Atlas of your choice.