

UT SOUTHWESTERN DEPARTMENT OF SURGERY

TECHNICAL SKILLS COURSE OUTLINE

Course Title: Basic transthoracic echocardiography

Course Director: Name: Heidi Frankel, MD, FACS
Specialty: Surgery

Additional Course Faculty: Name: SICU Fellows
Specialty: Surgery

Participants: Specialty: Surgery
Level: PGY 3
Number of participants for the entire course: 16

Expected Attendance: 16

of Wednesday Morning Sessions Assigned to Each Trainee: 1
Duration of Each Session (max 2 hrs): 2 hrs
of Trainees per session: 8

Course Completion Verification – How do you know when a trainee has completed each component of the course and the overall course itself? Please specify for each course component, if applicable –Course completion verification will be attendance-based. A Powerpoint lecture will be shown and hands-on training will be offered.

Attendance-based – based on the trainees attending all designated sessions
Entire course – Is the entire course solely based on attendance?
Part of the Course-Is attendance to designated sessions required in addition to other components, as listed below?

Repetition-based – based on the trainee performing a specified number of Repetitions.

Component(s):
of Repetitions:

Proficiency-based – based on the trainee reaching a specified level of proficiency
Component(s):
Method for determining proficiency:

Written Testing – based on passing a written test
Component(s):

Documentation of Watching Videos/CD's/Web-based Materials – based on proctor or instructor verification that the trainee has watched the specified videos/CD's/Web-based materials
Component(s);

Other Methods (specify methods)
Component(s):

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: hrs.

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

Self-practice component(s): YES

Estimated time requirements for self-practice: 2 hrs

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

Annual practice session will be required

Training Location(s) Skills Lab

Equipment/Simulator(s): Sonosite Ultrasound Unit

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

Educational Scope:

Skills –

Component(s): Limited ECHO assessment of the ICU Patient

Cognitive –

Component(s): ECHO hemodynamic assessment

Judgement: Indications for ECHO assessment

Learning Objectives:

- 1) Understand benefits and limitations of ECHO imaging
- 2) Perform ECHO assessment of preload
- 3) Perform ECHO assessment of contractile function

Summary of Curriculum, Teaching Methods, and Resource Utilization: Powerpoint lecture and hands-on demonstrations of limited ECHO exam

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

Direct instructor feedback

Methods for Assessment of Learners:

Direct instructor feedback

Methods of Course Evaluation:

By Learners: E-Value online system
By Faculty: E-Value online system

Materials: Sonosite ECHO unit