

## Transesophageal Echocardiography (TEE) Indications, Privileges and Procedure

### Indications

1. Cardiac arrest using **CASA** (Cardiac Arrest Sonographic Assessment)
2. Intubated patients

### Kaweah Delta Medical Center TEE privilege requirements:

1. Credentialed in TTE emergency ultrasound
2. Complete 4 hours of TEE specific CME or didactics/web-learning/Sim
  - a. [www.kaweahem.com/ultrasound](http://www.kaweahem.com/ultrasound)
  - b. [www.5minsono.com/TEE](http://www.5minsono.com/TEE)
  - c. [www.pie.med.utoronto.ca/TEE/](http://www.pie.med.utoronto.ca/TEE/)
  - d. [www.openanesthesia.org/course-in-basic-tee/](http://www.openanesthesia.org/course-in-basic-tee/)
3. Do 10 TEE exams (max of 5 can be Sim). Submit these 10 cases to medical staff.
4. Once given TEE privileges (ED/MEC/BOT), get proctored on 5 more (can be images/live).

### TEE Procedure (TEE should be in Room 20 cabinet, if not check the top of the Pyxis cabinet)

1. Cases: Text Dr. Hipskind at 559-287-1212 6am-9pm; he will reply if available
2. Technique:
  - a. Pre-insertion: No contra-indications, intubated, sheath, pre-loaded bite block
  - b. Components and movements (do not lock with the level or use the little wheel)
    - i. Big wheel: ante-flex and retro-flex
    - ii. Omni-plane buttons rotate beam clockwise and counter-clockwise
    - iii. Advance or retract
    - iv. Rotate probe right or left
3. 11\* views comprise the basic TEE series (**bolded** ones while performing CASA)
  - a. **Mid-esophageal 4 chamber (ME 4C) (pulse checks)**
    - i. Advance probe to about 30 to 40 cm until it is behind the LA
    - ii. Keep Omni-plane (omni) at 0° to 20°, +/- *slight* retroflexion
  - b. **ME long axis (ME LAX) (compression checks)**
    - i. Keep probe at same depth and increase omni to 120° - 140°
    - ii. Keep MV in center of screen and AV to right of screen
  - c. Refer to TEE pictural guide for remainder of views.
4. Post procedure probe maintenance
  - a. Disconnect from US unit
  - b. Wipe off gross contaminants (avoid touching transducer connector)
  - c. Place probe in tray, put red cover over tray, and call x2675 for cleaning