

2008 Workshop Learning Objectives
WEDNESDAY, JUNE 18, 2008

Workshop #1: Leveraging Your TEE Knowledge in the OR
Moderators: M Brady/J Miller

The Upset Stomach: How and when to incorporate epicardial imaging into your practice.
Speaker: J Abernathy

At the conclusion of this session the participants should be able to: Understand the principles, image/probe orientation and views required to obtain a useful, diagnostic epicardial echocardiographic examination. Verbalize the strengths and limitations of epicardial imaging compared with transthoracic and transesophageal echocardiographic imaging. Describe common clinical situations when epicardial imaging should be used to improve decision making in cardiac surgery

A Picture is Worth a 1000 Words: Clinically relevant echocardiographic and anatomic correlations.

Speaker: F Mahmood

At the conclusion of this session the participants should be able to: Visualize, identify and describe the location of structures within the cardiac chambers. Use echocardiography to evaluate extracardiac structures (e.g. intravascular tumors, etc.) and to guide placement of extracardiac interventions (e.g. shunts, etc.) Image and correctly identify the individual leaflets/cusps of all cardiac valves

Quantitate or not to quantitate? Appropriate use of qualitative Doppler imaging in clinical practice.

Speaker: W Whitley

At the conclusion of this session the participants should be able to: Describe all necessary machine adjustments to obtain and optimize a clinically useful color-flow Doppler image. Verbalize clinical situations where qualitative Doppler imaging techniques may not be accurate. Understand the differences between individual color maps and describe when variance maps may improve clinical diagnosis.

Great image...now what?

Speakers: J Abernathy/F Mahmood/W Whitley/M Brady/J Miller

At the conclusion of this session the participants should be able to: Be familiar with the learning points associated with the case examples shown. Verbalize techniques to yield clinical diagnoses when only suboptimal or limited echocardiographic images are obtained. Verbalize when a change in echocardiographic imaging modality is necessary to produce clinical decisions

Workshop #2: Hands on Thoracic Anesthesia
Moderators: L Cooper/E Cohen

The first part of the workshop will review the methods of lung separation (DLTs and Endobronchial Blockers and Thoracic Epidural). The second part will provide a unique opportunity to participate in the hands-on demonstration of the methods of lung separation. Several stations with fiberoptic scopes attached to video cameras and mannequins with lung models, will be available for demonstration and practice. These will include the insertion and positioning

of left and right-sided double lumen tubes. Univent tubes, Arndt Endobronchial blocker, Cohen Flexitip endobronchial Blocker and a Thoracic Epidural with the torso model. Some Stations will include Tube Exchangers for difficult airway.

Workshop #3: TEE: New and Review

Moderator: K Rehfeldt

At the conclusion of the workshop the participant will recognize the importance of intraoperative echocardiography in the anatomic and physiologic assessment of patients undergoing cardiovascular surgery. In addition, participants will understand how newer modalities such as tissue Doppler and strain rate imaging complement the traditional echo exam. Furthermore, participants will review the utility of intraoperative echo in the evaluation of patients with mechanical assist devices.

Intraoperative assessment of the thoracic aortic: TEE and epiaortic scanning

Speaker: M Kanchuger

At the conclusion of this lecture, participants will be able to recognize a variety of pathologic conditions affecting the thoracic aorta and understand their impact in patients undergoing cardiovascular surgery. In addition, participants will understand the indications and relative benefits of epiaortic ultrasound imaging in the cardiac operating room.

Diastolic function: Intraoperative case studies

Speaker: M Swaminathan

At the conclusion of this lecture, participants will be able to review the two-dimensional and Doppler components used to assess diastolic function. Furthermore, participants will recognize via case presentations, how TEE can be used intraoperatively to assess diastolic function and left heart filling pressures

Balloon pump and beyond: Echo assessment of assist devices

Speaker: T Burch

At the conclusion of this lecture, participants will understand the utility of echocardiography in assessing patients who may be candidates for mechanical circulatory support devices. Also, participants will understand the role of intraoperative echo in the evaluation of proper assist device function as well as complications that may arise related to the use of these devices.

Introduction to tissue Doppler and strain rate imaging

Speaker: N Skubas

At the conclusion of this lecture, participants will understand the basic principles behind tissue Doppler and strain rate imaging. In addition, participants will recognize how tissue Doppler and strain imaging complement the traditional echo examination in the assessment of a variety of cardiac disease states.

Workshop #4: Adults with Congenital Heart Disease: Arrhythmias, Sequelae and Recent Advances in non-Surgical Management

Moderators: K Rouine-Rapp/C Ramamoorthy

Arrhythmias in adults with CHD

Speaker: E Mossad

Following this lecture the participant will describe the prevalence of arrhythmias in adult patients with CHD. He/she will identify specific CHD lesions associated with arrhythmias. Following a case-based discussion of management, the participant will construct an anesthetic plan for an adult patient with CHD presenting for AICD in the cath lab.

Sequelae of CHD in the adult

Speaker: P Reynolds

Following this lecture the participant will identify specific sequelae that occur following palliation or surgical correction of a congenital heart defect. He/she will predict lesion-specific sequelae and anticipate how such sequelae will alter patient physiology.

Recent advances in the non-surgical management of CHD

Speaker: J DiNardo

At the conclusion of this lecture the participant will focus on current interventional management of CHD lesions. Following attendance, the participant will update his/her knowledge of procedures used to treat adults with CHD, including percutaneous pulmonary valve replacement, closure of ASD, VSD and PFO.

Workshop #5 Handheld Ultrasound for regional, vascular and TTE
**Speakers: M Byas-Smith/B Spence/F Beique/A Mittnacht/G Hartmann/
D Oxorn/K Glas/K Grichnick/L Heller**

At the conclusion of this lecture the participant shall be able to: 1) Identify vascular structures; 2) Distinguish nerves from other anatomic structures; 3) Recognize and assess cardiac structures; 4) Apply the handheld US skills to achieve successful nerve blockade; 5) Apply the handheld US skills to avoid vascular structure complications. Each session shall have didactics related to the use of US for vascular, regional and TTE (session 1 only) followed by hands on demonstrations during which the participants identify structures with US on live models. No blocks or vascular access will be performed during the sessions.

Workshop #6: Essentials of CPB

Moderator: M Swaminathan

At the conclusion of this session the participants should be able to: Identify important considerations for initiation and discontinuation of extracorporeal circulation. Delineate strategies used during cardiopulmonary bypass to manage hematocrit, hemodilution, temperature and effect neuroprotection. Discuss cardiopulmonary bypass management of patients with heparin induced thrombocytopenia. Describe cardiopulmonary bypass management strategies in aortic surgery.

Workshop #7: TEE Advance Clinical Cases

Moderator: N Skubas/K Rehfeldt

Quantitation of Regurgitant Lesions

Speaker: A Perrino

At the conclusion of this lecture the participant will understand the background of the Doppler techniques of proximal isovelocity surface area (PISA), vena contracta, jet area, and continuity equation, and review their application in the quantitative evaluation of regurgitant valve lesions.

3-D: Imaging Tomorrow

Speaker: D Shook

At the conclusion of this lecture, the participant will comprehend the physics of 3-, and 4-dimensional ultrasound and review the applications of 3-dimensional imaging in valvular pathology and ventricular function.

Challenging cases in prosthetic valve assessment

Speaker: A Cheung

At the conclusion of this lecture, the participant will review the hemodynamic calculations used in the evaluation of prosthetic valve function, the associated echocardiographic demonstrations of intra- and para-prosthetic leaks as well as the unique lesions associated with prosthetic valve endocarditis.

Echocardiographic findings in systemic disease

Speaker: K Rehfeldt

At the conclusion of this lecture, the participant will understand the echocardiographic differences between adaptive and pathologic ventricular hypertrophy, and review the echocardiographic manifestations of infiltrative diseases, diabetes mellitus, carcinoid, and radiation- and drug-induced valvular disease.