

10th Annual Comprehensive Review & Update of Perioperative Echo Clinical Decision Making in the Cardiac Surgery Patient

Basic - February 5-7, 2007

Advanced - February 8-10, 2007

Sheraton San Diego Hotel & Marina
San Diego, CA

For Cardiologists, Cardiothoracic Surgeons, and Cardiovascular Anesthesiologists



**Society of
Cardiovascular
Anesthesiologists**



**American
Society of
Echocardiography**

Heart and Circulation Ultrasound Specialists

Society of Cardiovascular Anesthesiologists

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www.scahq.org
Watch the website for meeting
updates and online registration

10th Annual Comprehensive Review & Update of Perioperative Echo

Statement of Need

Perioperative echocardiography has become an integral tool in the management of patients undergoing various cardiac surgical procedures. However, the development of expertise demands an understanding of ultrasound technology and its utilization in the evaluation and guidance of the surgical and medical management of cardiovascular dysfunction. The members of the Society of Cardiovascular Anesthesiologists (SCA) and the American Society of Echocardiography (ASE) have demanded interdisciplinary, patient-oriented educational programs to teach the requisite skills necessary to use this diagnostic and monitoring tool effectively, and assure a favorable impact on patient care. This interdisciplinary program sponsored by the SCA and offered in cooperation with ASE has been developed to meet the growing demand for such educational needs.

Target Audience

This course is designed for anesthesiologists, cardiologists, cardiac surgeons, and sonographers as a comprehensive review of perioperative echocardiography.

PROGRAM DIRECTORS

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PROGRAM COMMITTEE

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Medical Care Line Executive
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Affairs Medical Center

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Assistant Professor of Anesthesiology
& Cardiology
University of Utah

BASIC: FEBRUARY 5 - 7

Monday, February 5, 2007

Cardiac Anatomy – Image Plane Correlation/ Basics of Echocardiography

Moderator: GS Hartman

7:15 – 7:45 am	Continental Breakfast
7:45 – 8:00 am	Introductions and Overview GS Hartman, SK Shernan
8:00 – 8:30 am	Principles of Ultrasound AC Perrino, Jr.
8:30 – 9:00 am	Knobology for Image Optimization ST Reeves
9:00 – 9:30 am	Probe Placement and Manipulation GS Hartman
9:30 – 10:00 am	Comprehensive Exam JS Shanewise
10:00 – 10:30 am	Coffee Break

Anatomic Imaging Plane Workshop – Part I

Moderator: GS Hartman

10:30 am – 12:30 pm	Workshop Faculty: JA Fox; KP Grichnik; GS Hartman; MJ London; AC Perrino, Jr.; JS Shanewise; SK Shernan; M Swaminathan; CA Troianos
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Luncheon Series

12:30 – 12:45 pm	Box lunches served
12:45 – 1:15 pm	Nuts & Bolts of an Intraoperative Echo Service CA Troianos
1:15 – 1:45 pm	Certification & Recertification Update DM Thys

Anatomic Imaging Plane Workshop – Part II

Moderator: GS Hartman

2:00 – 3:00 pm	Workshop Faculty: JA Fox; KP Grichnik; GS Hartman; MJ London; AC Perrino, Jr.; JS Shanewise; SK Shernan; M Swaminathan; CA Troianos
3:00 – 3:30 pm	Coffee Break

Basic Principles of TEE

Moderator: KP Grichnik

3:30 – 4:00 pm	Artifacts LB Heller
4:00 – 4:30 pm	Anatomic Pitfalls KP Grichnik
4:30 – 5:00 pm	Basic Hemodynamics AC Perrino, Jr.
5:00 – 7:00 pm	Dinner on Own

Demonstration of Imaging Principles Basic Hemodynamics Fundamentals of Measurements

Moderators: GS Hartman, SK Shernan

7:00 - 9:30 pm	Workshop #1: Basic Hemodynamics BC Spence
	Workshop #2: Basic Measurements NJ Skubas
	Workshop #3: Hands-on Transthoracic Faculty: BA Bollen, KE Glas, KP Grichnik, GS Hartman, LB Heller, ST Reeves, SK Shernan, D Shook, L Shore-Lesserson, DA Zvara

Participants will rotate through each workshop.

Tuesday, February 6, 2007

Basic Transesophageal Echocardiography

Moderator: CA Troianos

6:45 – 7:15 am	Continental Breakfast with Exhibitors
7:15 – 7:30 am	Announcements SK Shernan
7:30 – 8:00 am	Left Ventricular Global Systolic Function MJ London
8:00 – 8:30 am	Right Ventricular Global Systolic Function JB Mark
8:30 – 9:00 am	Diastolic Function M Swaminathan
9:00 – 9:30 am	Questions & Answers with faculty
9:30 – 10:00 am	Coffee Break with Exhibitors
10:00 – 10:30 am	Aortic Regurgitation CA Troianos
10:30 – 11:00 am	Aortic Stenosis L Shore-Lesserson
11:00 – 11:30 am	Aortic Aneurysms and Dissections DA Zvara
11:30 – 12 noon	Questions & Answers with faculty

Luncheon Series

12:00 – 12:15 pm	Box lunches served
12:15 – 1:00 pm	Performing an Exam: Structure-directed vs Esophageal Level BC Spence

Basic Transesophageal Echocardiography

Moderator: LB Heller

1:00 – 1:30 pm	Mitral Regurgitation AS Lambert
1:30 – 2:00 pm	Mitral Stenosis LB Heller
2:00 – 2:30 pm	Tricuspid Valve/Pulmonic Valve JB Mark
2:30 – 3:00 pm	Questions & Answers/Cases with faculty
3:00 – 3:30 pm	Coffee Break with Exhibitors
3:30 – 4:00 pm	Prosthetic Valves AT Cheung
4:00 – 4:30 pm	Cardiac Masses L Shore-Lesserson
4:30 – 5:00 pm	Basic Congenital K Rouine-Rapp
5:00 – 7:00 pm	Dinner on Own

Regional Wall Motion Workshop

Moderator: K Rouine-Rapp

7:00 – 7:30 pm **Regional Wall Motion Evaluation**
D Vezina

7:30 – 9:00 pm **Regional Wall Motion Case Presentations**
AS Lambert; K Rouine-Rapp; D Vezina

Wednesday, February 7, 2007

Cardiac Anatomy Wet Lab

Moderator: GS Hartman

6:45 – 7:15 am Continental Breakfast with Exhibitors

7:15 – 7:30 am **Announcements**
GS Hartman

7:30 – 8:00 am **Overview of Cardiac Anatomy**
GS Hartman

8:00 – 10:30 am **Wet Lab Heart Dissection**
C Duran
Additional Faculty: BA Bollen, JA Fox, KE Glas,
KP Grichnik, GS Hartman, LB Heller,
RM Savage, SK Shernan, D Shook,
NJ Smedira, International Montana Heart
Institute Faculty

10:30 – 11:00 am **TEE Correlations of Cardiac Anatomy**
BA Bollen

11:00 am – 12:30 pm Lunch on Own

Non-cardiac Surgical Applications of Echocardiography

Moderator: RM Savage

1:30 – 2:00 pm **Echocardiography in the Emergency Room**
ST Reeves

2:00 – 2:30 pm **Echocardiography in the ICU**
JG Ramsay

2:30 – 3:00 pm **Echocardiography in the Cardiac Cath and EP Labs**
M Garcia

TEE for Off-pump CABG

3:00 – 3:30 pm **TEE for Off-pump CABG**
JS Shanewise

3:30 – 4:00 pm Coffee Break with Exhibitors

Non-TEE Applications of Perioperative Echocardiography

Moderator: KE Glas

4:00 – 4:30 pm **Epicardial Echocardiography**
KE Glas

4:30 – 5:00 pm **Ultrasound for Vascular Cannulation**
GS Hartman

Industry-sponsored Case Discussions (No CME credit awarded)

Moderators: GS Hartman, SK Shernan

5:00 – 6:30 pm **Industry-sponsored Case Discussions Involving New Technology**

ADVANCED: FEBRUARY 8 - 10

Thursday, February 8, 2007

Advanced Echocardiography I

7:00 – 7:45 am Continental Breakfast

7:45 – 8:00 am **Announcements**
GS Hartman, SK Shernan

Ventricular Function

Moderator: SK Shernan

8:00 – 8:30 am **Advanced Systolic Function**
AT Cheung

8:30 – 9:00 am **Advanced Diastolic Function: "Beyond the E- and A-Wave"**
M Garcia

9:00 – 9:30 am **Non-invasive Catheterization**
I Kronzon

9:30 – 10:00 am Coffee Break with Exhibitors

Echocardiography for Heart Failure and Cardiomyopathies

Moderator: D Shook

10:00 – 10:30 am **Echocardiographic Evaluation of Cardiomyopathies**
AD Maslow

10:30 – 11:00 am **Intraoperative Echo for Assist Devices and Heart Transplantation**
TBA

11:00 – 11:30 am **Pericardial Disease**
EG Avery

Aortic Disease

Moderator: NJ Skubas

11:30 am – 12 noon **Atheromatous Disease and Neurological Outcomes**
I Kronzon

Luncheon Series

12:00 – 12:15 pm Box lunches served

12:15 – 1:30 pm **The Future of Echocardiography**
BA Carabello

Advanced Echocardiography II New Technologies

Moderator: D Shook

1:30 – 2:00 pm **3D/4D Echocardiography**
D Shook

2:00 – 2:30 pm **Tissue Doppler/Strain**
NJ Skubas

2:30 – 3:00 pm Coffee Break with Exhibitors

Aortic Valve – Advanced

Moderator: RM Savage

- 3:00 – 3:30 pm** **Utility of Echo for Timing of Surgery Intervention in Asymptomatic AV Disease**
BA Carabello
- 3:30 – 4:00 pm** **Utility of Echo for Intraoperative Assessment of Aortic Valve Disease**
SN Konstadt
- 4:00 – 4:30 pm** **Surgeon's Approach to Aortic Valve Disease**
NG Smedira

Aortic Valve Cases

Moderator: BA Bollen

- 4:30 – 5:30 pm** **Cases**
BA Carabello, SN Konstadt, NG Smedira

Advanced Hemodynamic Workshop

Moderator: SK Shernan

- 7:00 – 7:30 pm** **Review of Advanced Hemodynamic Principles**
JS Shanewise
- 7:30 – 9:30 pm** **Advanced Hemodynamic Case Discussions**
SN Konstadt, AD Maslow, JS Shanewise, SK Shernan

Friday, February 9, 2007

Role of Echocardiography in Perioperative Clinical Decision-making

Moderator: RM Savage

- 7:00 – 7:45 am** Continental Breakfast with Exhibitors
- 7:45 – 8:00 am** **Announcements**
GS Hartman, SK Shernan
- 8:00 – 8:30 am** **Ischemic MR**
D Rubenson
- 8:30 – 9:00 am** **Mitral Valve Dysfunction after Repair**
SK Shernan
- 9:00 – 9:30 am** **PISA, Vena Contracta or Jet Area for MR?: Review of ASE Guidelines**
TBA
- 9:30 – 10:00 am** Coffee Break
- 10:00 – 10:30 am** **Surgery for MV Repair**
TBA

Mitral Valve Cases

Moderator: RM Savage

- 10:30 – 11:30 am** **Cases**
D Rubenson, SK Shernan, TBA
- 11:30 – 12 noon** **Echocardiography for Adult Patients with Congenital Heart Disease**
IA Russell

Luncheon Series

- 12:00 – 12:15 pm** Box lunches served
- 12:15 – 1:30 pm** **The Future of Cardiac Surgery**
TBA

Advanced Perioperative Decision-making

Moderator: S Aronson

- 1:30 – 2:00 pm** **Echocardiography to Wean from CPB**
RF Brooker
- 2:00 – 2:30 pm** **Echocardiography for Myocardial Viability**
S Aronson
- 2:30 – 3:00 pm** **Unanticipated Ascending Aortic Dilation: How Big is Too Big?**
AT Cheung
- 3:00 – 3:30 pm** **Echocardiographic Evaluation of Unanticipated Intracardiac Mass Endocarditis, Thrombus, Tumor, Artifact**
AD Maslow
- 3:30 – 4:00 pm** Coffee Break

"Test Yourself"

Moderator: DA Zvara

- 4:00 – 5:30 pm** **"Test Yourself" Mock Test**
Faculty: EG Avery, RF Brooker, BC Spence, DA Zvara
- 5:30 – 7:30 pm** Dinner on Own
- 7:30 – 9:30 pm** **Mock Exam Review**

Saturday, February 10, 2007

You're the Intraoperative Echocardiography Consultant

Moderator: GS Hartman, SK Shernan

- 6:45 – 7:30 am** Continental Breakfast with Exhibitors
- 7:30 – 10:30 am** **You're the Intraoperative Echocardiography Consultant**
Faculty: EG Avery, RF Brooker, GS Hartman, AD Maslow, IA Russell, SK Shernan

The Society of Cardiovascular Anesthesiologists is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.



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Heart and Circulation Ultrasound Specialists



Scientific Program Registration

10th Annual Comprehensive Review & Update of Perioperative Echo

February 5-10, 2007

(Please print or type)

Name _____ MD PhD Other _____
Last First MI

Address _____

City, State, Zip _____

Office Phone () _____ Home Phone () _____

Fax () _____ Email _____

Anesthesiologist Cardiologist Surgeon Resident (CA 1, CA 2, CA 3) Other _____

	Basic (February 5-7)		Advanced (February 8-10)	
	(Thru Dec. 4, 2006)	(After Dec 4, 2006)	(Thru Dec 4, 2006)	(After Dec 4, 2006)
<input type="checkbox"/> Member (SCA)	\$750	\$800	\$750	\$800
<input type="checkbox"/> Member (ASE)	\$750	\$800	\$750	\$800
<input type="checkbox"/> Non-Member (MD, DO, PhD)	\$950	\$1,000	\$950	\$1,000
<input type="checkbox"/> Resident/Fellow*	\$550	\$600	\$550	\$600
<input type="checkbox"/> Allied Health	\$850	\$900	\$850	\$900

If attending both the basic and advanced sessions, please add both registration fees and place a total here.

\$ _____ + _____ = \$ _____

→ Total \$ _____

*When accompanied by a letter from Department Chairperson, verifying Resident/Fellow Status.

Included in the registration fee are:

Basic: Continental Breakfasts, Coffee Breaks, Lunches, Course Syllabus and Wet Lab.

Advanced: Continental Breakfasts, Coffee Breaks, Lunches, and Course Syllabus.

Optional Evening Sessions: Beverages and Snacks.

SCA members only: As a member benefit, SCA will directly forward your CME credits that you earn from this meeting to your own personal Maintenance of Certification in Anesthesiology (MOCA) account at the American Board of Anesthesiology.

ABA #: _____

**Registration Is Limited
Please Register Early**

Check (Made payable to SCA) Credit Card: VISA MasterCard Discover American Express

Card No. _____ Exp. Date _____

Signature _____ Printed Name on Card _____

Refund Policy: A full refund through December 4, 2006; 80% refund from December 5, 2006 through December 19, 2006; no refunds after December 19, 2006. Refunds will be determined by date written cancellation is received.

Americans with Disabilities Act: The Society of Cardiovascular Anesthesiologists has fully complied with the legal requirements of the ADA and the rules and regulations thereof. If any participant in this educational activity is in need of accommodations, please contact SCA at (804) 282-0084 by January 4, 2007 in order to receive service.

Mail or Fax to:
SCA, 2209 Dickens Road, Richmond, VA 23230-2005
Phone (804) 282-0084 • Fax (804) 282-0090

If you do not receive a confirmation letter from the SCA office within 30 days of submitting your registration form, please call the office to confirm that your registration material has been received.



Hotel Reservation Form

10th Annual Comprehensive Review & Update of Perioperative Echo

February 5-10, 2007

The Sheraton San Diego Hotel and Marina Welcomes the Society of Cardiovascular Anesthesiologists

Sheraton San Diego Hotel and Marina

Send Reservations to →

Reservations Department
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Reservations: Phone (877) 734-2726 • Fax (619) 692-2312
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Please Reserve:

_____ Rooms My Arrival Date is: _____ Arrival Time: _____ My Departure Date is: _____

Check in time is 3:00 pm, but we try to accommodate early arrivals, check out time is 12 noon. For suites, please contact hotel directly.

Name _____
Last First MI

Preferred Mailing Address _____

City, State, Zip _____ Email Address _____

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Accompanying Person(s) Name(s) _____ #Adults _____ #Children _____

Extra Adults in a room are \$20 per night. There is no additional charge for children under the age of eighteen.

- | | | | | |
|---------------|--------------------------|--------------------|--------------------------|---------------------------------|
| Standard Room | <input type="checkbox"/> | \$245 Single | <input type="checkbox"/> | \$265 Double |
| Premium Room | <input type="checkbox"/> | \$255 Single | <input type="checkbox"/> | \$275 Double (Guaranteed Views) |
| Club Room | <input type="checkbox"/> | \$275 Single | <input type="checkbox"/> | \$295 Double |
| Suites | <input type="checkbox"/> | \$500 Lanai Suites | <input type="checkbox"/> | \$750 Executive Suites |

(Club Rooms and Suites include: Continental Breakfast for 2, Health Club Access, Local Phone Calls, and Self Parking)
(If your requested room and bedding type is not available, an alternate will be assigned.)

- Non Smoking Smoking King 2 Double Beds Request Crib (Based on availability)

Special Requests: _____ Starwood Preferred Guest # _____

All reservations must be accompanied by a deposit for the first night room and 10.565% tax. There is no penalty for cancellations 7 days prior to the date of arrival. The deposit will be non refundable if the reservation is not cancelled 7 days prior to arrival.

Reservations include complimentary use of the Health Club and a high-speed internet connection.

- Enclosed is my Check/Money Order in the amount of \$ _____ (Please make payable to Sheraton San Diego Hotel & Marina)

Please charge first night's deposit to my: VISA MasterCard Discover American Express
 Enroute JBC Diners Club

Card No. _____ Exp. Date _____

Signature _____ Printed Name on Card _____

Cut-off date: January 4, 2007

All rooms are subject to availability

Basic (February 5-7)

Course Objectives

The program will focus on the basic physical principles and perioperative applications of ultrasound technology. The program will include didactics and interactive case discussions to review the role of perioperative echocardiography in diagnosing cardiac and great vessel pathology in patients undergoing cardiac and non-cardiac surgical procedures. A "wet lab" experience with pig hearts will be available to demonstrate surgical cardiac anatomy and highlight the technical issues which should be addressed during an intraoperative echocardiographic examination.

Upon completion of this course, the participant will be capable of understanding the application of basic echocardiographic diagnostic principles in the surgical patient including the correlation of surgical and echocardiographic anatomy of the heart, and the technical considerations involved in mitral valve repair, aortic valve/root repair or replacement, obstructive hypertrophic cardiomyopathy, and surgical management of congestive heart failure.

After attending the Basic Transesophageal Echo educational activity the participant will:

- Understand the basic principles of 2D echo, spectral and color Doppler echocardiography;
- Recognize the components of the comprehensive perioperative echocardiographic examination
- Learn to recognize basic cardiac and great vessel anatomy, and evaluate basic function of the ventricles and heart valves;
- Be aware of common artifacts and misinterpretations of cardiac anatomy;
- Have the basic knowledge necessary to establish an Echo Service that incorporates quality assurance as part of a perioperative TEE program and enhances patient care.

Designation Statement

The Society of Cardiovascular Anesthesiologists designates this educational activity for a maximum of 27.5 **AMA PRA Category 1 Credit(s)**[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Advanced (February 8-10)

Course Objectives

The program will focus on advanced physical principles and perioperative applications of ultrasound technology. The program will include an in-depth review of the influence of perioperative echocardiography on the anesthetic management and surgical decision-making process of patients undergoing cardiac and non-cardiac surgical procedures utilizing didactics and interactive case presentations.

Upon completion of this course, the participant will be capable of understanding the application of advanced echocardiographic diagnostic principles in the surgical patient including:

- The physics of ultrasound and its incorporation into current echocardiographic technology
- Ventricular function and regional wall motion assessment and its correlation with other diagnostic studies such as coronary angiography
- The pathophysiology of valvular heart disease and its perioperative assessment
- Newer echocardiographic techniques including three-dimensional echocardiography, strain and strain rate, myocardial viability assessment
- The role of perioperative echocardiography used in guiding surgical decision making for cardiac surgical patients undergoing myocardial revascularization, valve repair or replacement, myectomy for left ventricular outflow tract obstruction, congenital heart disease, thoracic aorta repair, biventricular resynchronization and procedures for heart failure

Designation Statement

The Society of Cardiovascular Anesthesiologists designates this educational activity for a maximum of 24.5 **AMA PRA Category 1 Credit(s)**[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.

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