

11th Annual Comprehensive Review & Update of Perioperative Echo

Clinical Decision Making in the Cardiac Surgery Patient

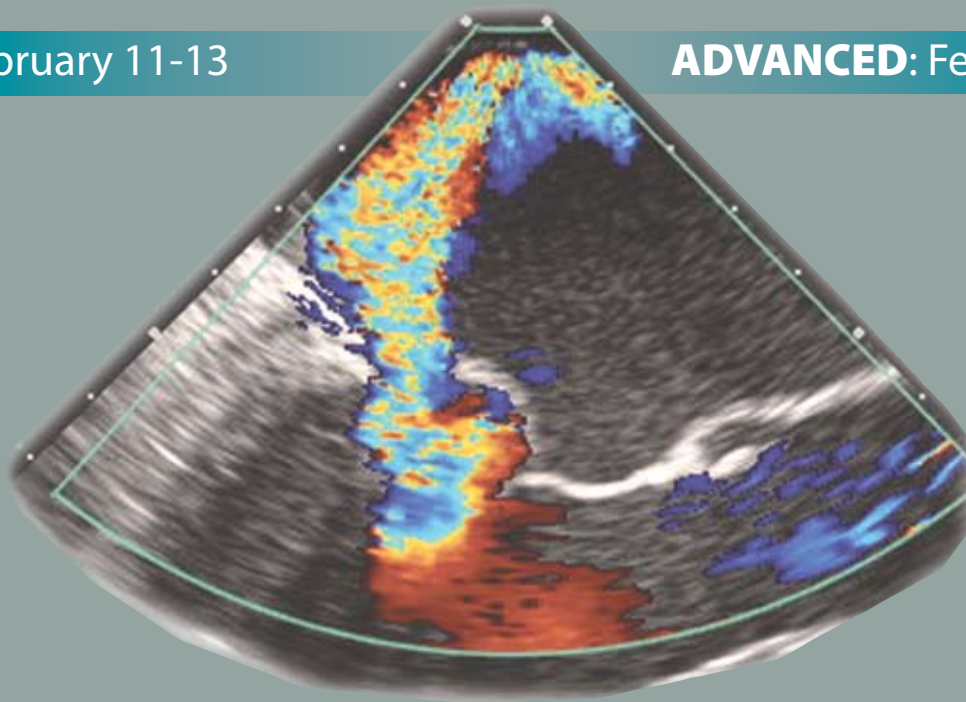
February 11 – 16, 2008

Sheraton San Diego Hotel & Marina • San Diego, CA

*For Cardiologists, Cardiothoracic Surgeons
and Cardiovascular Anesthesiologists*

BASIC: February 11-13

ADVANCED: February 14-16



Society of
Cardiovascular
Anesthesiologists

In Cooperation With



American
Society of
Echocardiography
Heart and Circulation Ultrasound Specialists

Society of Cardiovascular Anesthesiologists

2209 Dickens Rd. • Richmond, VA 23230-2005 • Phone: (804)282-0084 • Fax: (804) 282-0090 • E-mail: sca@societyhq.com

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

11th Annual Comprehensive Review & Update of Perioperative Echo

Statement of Need

Ultrasonography has become an integral tool for the perioperative management of surgical patients. Echocardiography, in particular, remains the fundamental diagnostic modality and monitor of perioperative cardiac performance, however its utility is no longer limited to cardiac surgical patients. Non-cardiac surgical applications of perioperative echocardiography are rapidly becoming appreciated and incorporated into routine practice. Furthermore applications of perioperative ultrasound have extended beyond echocardiography to include imaging of non-cardiac vascular structures and the facilitation of peripheral nerve blockade. In order to utilize these modalities, comprehensive knowledge and expertise in the ultrasound technology and its clinical applications are essential to optimally guide surgical procedures, and direct medical management of patients with cardiovascular dysfunction. The members of the Society of Cardiovascular Anesthesiologists (SCA) and the American Society of Echocardiography (ASE) have mandated interdisciplinary, patient-oriented educational programs to teach the requisite skills necessary to use these diagnostic and monitoring tools effectively, and to assure a positive impact on patient care. This interdisciplinary program sponsored by the SCA and offered in cooperation with the 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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Research Director, Cardiac Ultrasound Lab
Massachusetts General Hospital

BASIC: February 11 - 13

Monday, February 11, 2008

Cardiac Anatomy – Image Plane Correlation/Basics of Echocardiography

Moderator: GS Hartman

7:00 – 7:30 am	Continental Breakfast
7:30 – 7:40 am	Introductions and Overview GS Hartman/SK Shernan
7:40 – 8:15 am	Basic Challenging Cases GS Hartman
8:15 – 8:45 am	Probe Placement and Manipulation GS Hartman
8:45 – 9:15 am	Principles of Ultrasound AC Perrino, Jr.
9:15 – 9:45 am	Knobology for Image Optimization LB Heller
9:45 – 10:15 am	Comprehensive Exam JS Shanewise
10:15 – 10:45 am	Coffee Break

Anatomic Imaging Plane Workshop – Part I

Moderators: GS Hartman/NJ Skubas

10:45 am – 12:15 pm	Workshop Faculty A: GS Hartman, NJ Skubas, JS Shanewise, CA Troianos, J Fox, SK Shernan, K Rouine-Rapp, AS Lambert Faculty B: D Shook, KP Grichnik, LB Heller, AT Perrino, S Garwood, BC Spence, D Porembka
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Luncheon Series

12:15 – 12:30 pm	Box lunches served
12:30 – 1:10 pm	Nuts & Bolts of an Intraoperative Echo Service CA Troianos
1:10 – 1:50 pm	Certification & Recertification Update JS Shanewise

Anatomic Imaging Plane Workshop – Part II

Moderators: GS Hartman/NJ Skubas

2:00 – 3:30 pm	Workshop Faculty A: GS Hartman, NJ Skubas, JS Shanewise, CA Troianos, J Fox, SK Shernan, K Rouine-Rapp, AS Lambert Faculty B: D Shook, KP Grichnik, LB Heller, AT Perrino, S Garwood, BC Spence, D Porembka
3:30 – 4:00 pm	Coffee Break

Basic Principles of TEE

Moderator: KP Grichnik

4:00 – 4:30 pm	Artifacts LB Heller
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4:30 – 5:00 pm **Anatomic Pitfalls**
KP Grichnik

5:00 – 7:00 pm Dinner on Own

Demonstration of Imaging Principles/Chamber Quantification/Knobology and Image Optimization Workshops

Moderators: SK Shernan, KP Grichnik

7:00 – 9:00 pm	Workshop #1: Basic Hemodynamic Workshop AC Perrino, Jr.
	Workshop #2: Chamber Quantification and Basic Measurements S Garwood
	Workshop #3: Knobology and Image Optimization Faculty: LB Heller, KP Grichnik, D Shook

Participants will rotate through each workshop.

Tuesday, February 12, 2008

Basic Transesophageal Echocardiography I

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 S Garwood
9:00 – 9:30 am	Case Discussions with Faculty CA Troianos, MJ London, JB Mark, S Garwood
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 R Sniecinski
11:00 – 11:30 am	Aortic Aneurysms and Dissections DA Zvara
11:30 – 12 noon	Case Discussions with Faculty CA Troianos, R Sniecinski, DA Zvara

Luncheon Workshop Regional Wall Motion Workshop

Moderators: K Rouine-Rapp

12 noon – 12:15 pm	Box Lunches Served
12:15 – 12:45 pm	Regional Wall Motion Evaluation K Rouine-Rapp, AS Lambert
12:45 – 2:00 pm	Regional Wall Motion Unknown Case Presentations K Rouine-Rapp, AS Lambert, JA Fox

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

Basic Transesophageal Echocardiography II

Moderator: LB Heller

2:00 – 2:30 pm	Mitral Regurgitation AS Lambert
2:30 – 3:00 pm	Mitral Stenosis LB Heller
3:00 – 3:30 pm	Tricuspid Valve & Pulmonic Valve JB Mark
3:30 – 4:00 pm	Cases Discussions with Faculty LB Heller, AS Lambert, JB Mark
4:00 – 4:30 pm	Coffee Break with Exhibitors
4:30 – 5:00 pm	Prosthetic Valves AT Cheung
5:00 – 5:30 pm	Basic Congenital Heart Disease K Rouine-Rapp
5:30 – 7:00 pm	Dinner on Own

Ultrasound for Regional Anesthesia and Vascular Access Workshop

Moderator: KP Grichnik/BC Spence

7:00 – 9:00 pm	Group I – Vascular Access (mannequins/phantom and live demonstrations) G Hartman
	Group II –Regional Access B Spence

Wednesday, February 13, 2008

Cardiac Anatomy Wet Lab

Moderators: GS Hartman/D Shook

7:00 – 7:25 am	Continental Breakfast with Exhibitors
7:25 – 7:30 am	Overview & Announcements GS Hartman
7:30 – 8:00 am	Overview of Cardiac Anatomy D Shook
8:00 – 10:30 am	Wet Lab Heart Dissection N Smedira, D Shook, Surgeon TBA Faculty: NG Smedira, D Shook, B Bollen, SK Shernan, KA Glas, KP Grichnik, CA Troianos
10:30 – 11:00 am	TEE Correlations of Cardiac Anatomy D Shook
11:00 am – 2:00 pm	Lunch on Own

Non-Cardiac Surgical Applications of Echocardiography

Moderator: KE Glas

2:00 – 2:30 pm	Non-Operating Room Applications of TEE JG Ramsay
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Ultrasonographic Examination of the Aorta

Moderator: KE Glas

2:30 – 3:00 pm	Aortic Atheromatous Disease and Neurocognitive Outcome I Kronzon
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3:00 – 3:30 pm	Epicardial and Epi-aortic Ultrasound KE Glas
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3:30 – 4:00 pm	Coffee Break with Exhibitors
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Summary and Review of Basic Course

Moderators: GS Hartman/SK Shernan

4:00 – 5:00 pm	You're the Intraoperative Consultant: Basic Faculty: GS Hartman, SK Shernan, KP Grichnik, CA Troianos
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The Latest and Greatest in Ultrasound Technology

Moderators: GS Hartman/SK Shernan

5:00 – 7:00 pm	Industry-Sponsored Case Discussions Involving New Technology
7:00 – 8:30 pm	Reception for Attendees and Industry Representatives

Advanced: February 14 - 16

Thursday, February 14, 2008

Advanced Echocardiography I

6:45 – 7:30 am	Continental Breakfast
7:30 – 7:40 am	Announcements GS Hartman/SK Shernan

Ventricular Function

Moderators: SK Shernan/C Troianos

7:40 – 8:30 am	Advanced Challenging Cases KP Grichnik, CA Troianos
8:30 – 9:00 am	Advanced Systolic Function AT Cheung
9:00 – 9:30 am	Advanced Diastolic Function: "Beyond the E- and A-Wave" M Swaminathan
9:30 – 10:00 am	Tissue Doppler/Stress/Strain NJ Skubas
10:00 – 10:30 am	Coffee Break with Exhibitors
10:30 – 11:00 am	3D and 4D Echocardiography D Shook
11:00 - 12:00 noon	Case Discussions with Faculty AT Cheung, M Swaminathan, NJ Skubas, D Shook, SK Shernan

Luncheon Series (box lunch served)

12:00 – 12:15 pm	Box lunches served
12:15 – 1:30 pm	First Annual Arthur E. Weyman, MD Lecture AE Weyman

Echocardiography for Heart Failure and Cardiomyopathies

Moderator: AD Maslow

1:30 – 2:00 pm	Echocardiographic Evaluation of Cardiomyopathies AD Maslow
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2:00 – 2:30 pm	Pericardial Disease EG Avery
2:30 – 3:00 pm	Intraoperative Echo for Ventricular Assist Devices and Heart Transplantation TM Burch
3:00 – 3:30 pm	Coffee Break with Exhibitors

Advanced Echocardiography II: Aortic Valve – Advanced

Moderator: BA Bollen

3:30 – 4:00 pm	Timing of Surgery/Intervention in Asymptomatic Aortic Valve Disease AE Weyman
4:00 – 4:30 pm	Patient Prosthetic Mismatch and Pressure Recovery after Aortic Valve Replacement I Kronzon
4:30 – 5:00 pm	Aortic Valve Replacement or Repair? NG Smedira
5:00 – 6:00 pm	Case Discussions with Faculty BA Bollen, AE Weyman, I Kronzon, N Smedira
6:00 – 7:00 pm	Dinner on own

Advanced Hemodynamic Workshop

Moderators: AT Cheung/AD Maslow

7:00 – 7:30 pm	Review of Advanced Hemodynamic Principles and Quantitative Doppler AD Maslow
7:30 – 9:30 pm	Advanced Hemodynamic Case Discussions A Cheung, SK Shernan, SN Konstadt, CG Koch, AD Maslow

Friday, February 15, 2008

Advanced Echocardiography III

7:00 – 7:45 am	Continental Breakfast with Exhibitors
7:45 – 8:00 am	Announcements GS Hartman/SK Shernan

Advanced Mitral Valve

Moderator: BA Bollen

8:00 – 8:30 am	Your Patient is Scheduled for Mitral Valve Repair but Presents with Only 2+ Regurgitation by Intraoperative TEE: What Now? SN Konstadt
8:30 – 9:00 am	Ischemic Mitral Regurgitation S Aronson
9:00 – 9:30 am	Surgical Repair of the Mitral Valve Surgeon (TBA)
9:30 – 10:30 am	Case Discussions with Faculty BA Bollen, SN Konstadt, S Aronson, Surgeon TBA
10:30 – 11:00 am	Coffee Break with Exhibitors

Role of Echocardiography in Perioperative Clinical Decision-Making: Part I

Moderator: RM Savage

11:00 – 11:30 am	Role of Echocardiography in Percutaneous Approaches to Valve Dysfunction RM Savage
11:30 – 12:00 noon	Mitral Valve Dysfunction after Mitral Valve Repair SK Shernan

Luncheon Series (box lunch served)

12:00 – 12:15 pm	Box Lunches Served
12:15 – 1:00 pm	Surgeon (TBA)

Role of Echocardiography in Perioperative Clinical Decision-Making: Part II

Moderator: RM Savage

1:00 – 1:30 pm	How to Use Echocardiography to Help Wean from Bypass TM Burch
1:30 – 2:00 pm	Unanticipated Ascending Aortic Dilatation: How Big is Too Big? AT Cheung
2:00 – 2:30 pm	Echocardiographic Assessment of Myocardial Viability M Swaminathan
2:30 – 3:00 pm	Echocardiography for Adult Congenital Heart Disease IA Russell
3:00 – 3:30 pm	Stump the Panel: Unusual Cases from the Faculty RM Savage, TM Burch, AT Cheung, M Swaminathan, IA Russell
3:30 – 4:00 pm	Coffee Break

“Test Yourself”

Moderator: DA Zvara

4:00 – 5:30 pm	“Test Yourself” Mock Test Faculty: DA Zvara, BC Spence, TM Burch, EG Avery, CG Koch
5:30 – 7:30 pm	Dinner on Own
7:30 – 9:30 pm	Mock Exam Review Faculty: DA Zvara, BC Spence, TM Burch, EG Avery, CG Koch

Saturday, February 16, 2008

You’re the Intraoperative Echocardiography Consultant

Moderators: GS Hartman/SK Shernan

6:45 – 7:30 am	Continental Breakfast
7:30 – 8:30 am	Review of Advanced Cases GS Hartman, SK Shernan
8:30 – 10:30 am	You’re the Intraoperative Echocardiography Consultant Faculty: K Glas, AD Maslow, CG Koch, GS Hartman, SK Shernan



Scientific Program Registration

11th Annual Comprehensive Review & Update of Perioperative Echo

February 11 - 16, 2008 • Sheraton San Diego Hotel & Marina

(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 _____

Check One:	BASIC: February 11- 13		ADVANCED: February 14 - 16	
	Through Dec. 6, 2007	After Dec. 6, 2007	Through Dec. 6, 2007	After Dec. 6, 2007
<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* (SCA Member)	\$550	\$600	\$550	\$600
<input type="checkbox"/> Resident/Fellow* (Non-Member)	\$625	\$675	\$625	\$675
<input type="checkbox"/> Allied Health	\$850	\$900	\$850	\$900
If attending both the basic and the advanced sessions, please add both registration fees and fill in the total.				
		Basic \$ _____	Advanced \$ _____	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 #:** _____

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 6, 2007; 80% refund from December 7, 2007 through December 21, 2007; no refunds after December 21, 2007. 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 3, 2008 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.

Basic (February 11-13)

Course Objectives

The program will focus on the basic 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 anatomy and highlight the technical issues that 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 principles including fundamental physics of ultrasound, Doppler echocardiography and hemodynamic quantification. The participant will have a better understanding of the pathophysiology of valvular heart disease and ventricular function and dysfunction, diseases of the aorta and congenital heart disease.

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

- have an understanding of the basic principles of 2D echo, spectral and color Doppler echocardiography;
- be able to 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 of what is necessary to establish an Echo service that incorporates quality assurance as part of a perioperative TEE program and enhances patient care.
- have been exposed to the application of ultrasound for facilitation of vascular access and peripheral nerve blocks

Designation Statement

The Society of Cardiovascular Anesthesiologists designates this educational activity for a maximum of 26.75 **AMA PRA Category 1 Credit(s)**[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Advanced (February 14-16)

Course Objectives

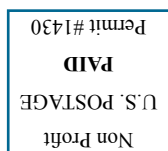
The program will focus on the advanced principles and perioperative applications of ultrasound technology. The program will include an in-depth review of the influence of perioperative echocardiography on the anesthetic management and surgical decision-making process of patients undergoing cardiac and 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:

- ventricular function and regional wall motion assessment and its correlation with other diagnostic studies such as coronary angiography;
- the role of diastolic dysfunction in heart failure;
- the pathophysiology of valvular heart disease and perioperative assessment;
- newer echocardiographic techniques including three-dimensional echocardiography, stress, strain and strain rate, myocardial viability assessment;
- the role of perioperative echocardiography used in guiding surgical decision making for cardiac patients undergoing myocardial revascularization, valve repair or replacement, myomectomy for left ventricular outflow tract obstruction, congenital heart disease, thoracic aortic repair, biventricular resynchronization and procedures for heart failure.
- the echocardiographic evaluation of ventricular assist devices and the role of TEE in the separation from cardiopulmonary bypass;
- the interaction between the different specialties: surgeons, cardiologists and anesthesiologists in complex decision making processes involved in the perioperative care of surgical patients with cardiovascular disease.

Designation Statement

The Society of Cardiovascular Anesthesiologists designates this educational activity for a maximum of 25 **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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