



First Notice



*Society of Cardiovascular
Anesthesiologists*

**24TH ANNUAL MEETING &
WORKSHOPS**

April 20-24, 2002

*New York Marriott Marquis
New York, NY*

**Register Online:
www.scahq.org**

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



Roger A. Moore, MD
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Committee Chair*

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Education Committee

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David A. Zvara, MD
Scott T. Reeves, MD (ad hoc)
Erin Sullivan, MD (ad hoc)



STATE OF NEW YORK

GEORGE E. PATAKI
GOVERNOR

November 14, 2001

Dear Friends:

September 11 will always be remembered as one of the darkest days in our history. The tremendous losses we have suffered are shared by all New Yorkers, Americans and people of the world. I salute the courage and compassion displayed by members of the medical profession in the wake of this disaster, as well as remembering all our friends and compatriots who were lost.

These cowardly and vicious attacks were intended to undermine our way of life, sap our strength and erode our freedoms. We will not allow that to happen. Our spirit is strong, and our resolve is unshakeable. We will rebuild, we will recover, and we will continue to stand as the world's beacon of freedom, hope and opportunity.

We all continue to mourn, but as the President has urged us to do, we all must resume our normal lives and business to keep our nation moving forward. It is in that spirit that New York looks forward to welcoming the Society of Cardiovascular Anesthesiologists for their 24th Annual Meeting in April 2002. As you and your colleagues gather together in New York City in April, you will be joining us in demonstrating our resolve to stand together and undaunted.

Your presence in New York City for the 2002 SCA Annual Meeting will help send a powerful message that New York and America are forging ahead. There can be no doubt that our future is bright, and that together we will lift our city and our nation to their greatest day.

With best wishes for a successful conference and gratitude for your continued solidarity with the people of New York.

Very truly yours,

A handwritten signature in black ink that reads "George Pataki". The signature is written in a cursive, flowing style.

EXECUTIVE CHAMBER STATE CAPITOL ALBANY 12224
<http://www.state.ny.us>



SCA 24th Annual Meeting & Workshops • April 20-24, 2002

New York Marriott Marquis, New York, NY

General Information

Workshops/Fireside Chats/PBL's

Included: Fee includes workshop or fireside chat, continental breakfast (morning workshops), breaks, lunch (afternoon workshops), snacks (fireside chats), and syllabus for workshops.

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

The Society of Cardiovascular Anesthesiologists designates these educational activities for a maximum of 4.0 hours in category 1 credit towards the AMA Physician's Recognition Award. Each physician should claim only those hours of credit that he/she actually spent in the educational activity.

Registration Limitations: Please note limitations. Pre-registration of workshops and fireside chats is available to SCA Members only. If space is available, sessions will be open to non-members on site.

24th Annual Meeting

Location: All scientific sessions and workshops will be held at the New York Marriott Marquis, 1535 Broadway, New York, NY.

Included: Scientific fee includes (4) continental breakfasts, (8) coffee breaks, (2) lunches, (1) reception and the meeting syllabus.

Accompanying Person Fee: The Accompanying Person Fee provides for admission to the Monday evening reception, hospitality suite and exhibit hall. This fee does not include lunch in the exhibit hall on Monday and Tuesday.

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

The Society of Cardiovascular Anesthesiologists designates this educational activity for a maximum of 24 hours in category 1 credit towards the AMA Physician's Recognition Award. Each physician should claim only those hours of credit that he/she actually spent in the educational activity.

Refund Policy

For the Workshops/Fireside Chats, Annual Meeting and PBLDs a full refund will be provided through March 15, 2002; an 80% refund will be provided from March 16 through April 1, 2002. After April 1, 2002, the Society will not refund any registration fees. Refunds will be determined by the date the **written** cancellation is received in the SCA's headquarters office and the postmark.

Hotel Reservations

A hotel reservation form is included in this program. In order to receive the group rate, please send your completed hotel reservation form directly to the hotel. All rooms are subject to availability. Reservations may not be guaranteed past the cut-off date of **March 29, 2002**.

Transportation

Association Travel Concepts (ATC) has been selected as the official travel agency for the Society of Cardiovascular Anesthesiologists Annual Meeting & Workshops in New York April 20-24, 2002. As the official agency, ATC has negotiated discounts with United, Continental, Amtrak and Alamo Rental Car to bring you special airfares, rail rates and car rental rates that are lower than those available to the public. When calling ATC, you will save 10% to 15% off on United and Continental Airline tickets purchased more than 60 days prior to the meeting. For tickets purchased less than 60 days prior, the discounts will be 5% to 10% off of the lowest available fares. Some restrictions may apply and a service fee may apply. ATC will also search for the lowest available fare on **ANY** airline serving New York.

ATC provides personalized service, advance seat assignments, special meal requests on airline flights, frequent flier programs, electronic ticketing, E-mail access for convenient booking of your tickets and more. Take advantage of these new services offered by ATC: Power Pricing—a computer software search for the best fare on all airlines; RESFAX—fax-back service with 36 options and prices for your requested travel times.

To take advantage of these great rates and personalized service, call ATC at **1-800-458-9383**; email to atc@atcmeetings.com; www.atcmeetings.com; or fax to **(858) 581-3988**.

Above discounts apply for travel April 17 through 27, 2002. ATC is available for reservations from 9:00 am until 7:30 pm Eastern Time, Monday through Friday. You may also call your own agency or the vendors directly and refer to the following I.D. numbers listed:

United:	556EG	800-521-4041
Continental:	U2HPLR	800-468-7022
Amtrak:	X314-931	800-872-7245
Alamo:	72620 GR	800-732-3232

Estimated travel time on Amtrak from select cities to New York City's Penn Station:

Philadelphia, PA – 1.5 hours	Boston, MA – 3.75 hours	Washington DC – 2.75 hours
Hartford, CT – 3 hours	Trenton, NJ – 1 hour	Richmond, VA – 6 hours
Wilmington, DE – 1.5 hours	Rochester, NY – 6.5 hours	

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Giveaway Drawings

NEW for SCA meeting attendees who are also registered guests at the New York Marriott Marquis Hotel (residents of New York City and vicinity automatically included).

During exhibit hours on April 22-23, 2002, the SCA will hold several drawings for prizes. Some of the prizes to be given away are:

- complimentary guest room at the New York Marriott Marquis during the 2002 SCA annual meeting
- complimentary dinner for two at the Marriott Marquis' signature restaurant (to be used during the 24th Annual Meeting & Workshops)
- recently published textbooks
- complimentary airline ticket to Miami for next year's annual meeting
- complimentary hotel room at the Fontainebleau Hilton in Miami during the 2003 SCA annual meeting
- complimentary meeting registration for any SCA 2003 meeting

In order to be eligible to win, you must be:

- a registered guest at the New York Marriott Marquis Hotel or a meeting registrant within commuting distance of the hotel
- a registrant for the 24th Annual Meeting & Workshops

Make your hotel reservations today by calling (212) 704-8700 and be sure to tell the reservations agent that you will be attending the SCA Conference.

(Prize list subject to change. Registrants need not be present in the exhibit hall to win. Certain prizes may be transferable and will be announced before the drawing.)

A Sampling of New York City Landmarks

When the New York Times newspaper constructed their offices atop the subway station at Longacre Square in 1904, one of the busiest, brightest, and most entertaining districts was born - **Times Square!**

A place where half a million people ring in each New Year and where every day, 1.7 million New Yorkers and tourists converge in a bustling, breathtaking example of the urban experience. What makes Times Square is 40 Broadway theaters, the 50 supersigns, the 27 hotels containing over 12,500 rooms, and the more than 250 eateries. It's all this plus the memories and myths which have created the "Crossroads of the World". There's even an entire block devoted to eating - Restaurant Row. A total of 22 restaurants line both sides of West 46th Street between Eighth and Ninth Avenues.

A single street so popular it has its own musical! 100 years ago, **42nd Street** between Seventh and Eighth Avenues was the entertainment capital of the world. Grand theatres were the castles of the vaudeville and burlesque kings and queens. The Great Depression of the 1930's overthrew 42nd Street as movies took over and the decline began. You can still find scattered traces of 42nd Street's legendary past gracing the facades of these old legends.

Along the bumpy cobblestone streets toward **Pier 17** you'll find restaurants and shops galore, but this is also an historic district and a living museum. Inside, you can see ship models, prints and paintings. Outside, tour the boat building shop or take a tour of the 4-masted, 347-foot cargo vessel Peking, one of 6 historic ships, and take home a bit of knowledge as a souvenir.

A monument to man's ingenuity and creativity, this world famous steel suspension bridge was designed by architect John Roebling between 1867 and 1883. Many lives were lost constructing the first "hotlink" between Brooklyn and Manhattan. The bridge's renowned double-arched towers were set firmly into the East River's bedrock while the unprecedented use of steel cables allowed for future bridges to span great distances. But the **Brooklyn Bridge** remains an original - like most NYC residents. On the Manhattan side, you can get some great views of this majestic bridge from the top of Pier 17 at the South Street Seaport.

One of the great pleasures New Yorkers and tourists enjoy is getting away from it all in **Central Park**. Stretching 51 blocks between 59th and 110th streets, this 843 acre, green rectangle has served its city well since 1859.

Most people refer to this Beaux-Arts beauty as **Grand Central Station** but it's actually a Terminal because this is where train lines originate and terminate. As you approach 42nd Street and Park Avenue from downtown, you'll be facing this triumphant facade featuring a fifty foot pediment with statues of Hercules, Minerva and Mercury surrounding a thirteen foot clock. This was designed by architect Whitney Warren in 1913. The interior of Grand Central is also an amazing sight and will transport you to another time. New York City used to have another equally impressive train station - Pennsylvania Station. Although there is still a Penn Station, the original was an awe-inspiring building of beauty that was torn down in the name of progress.



Program

Friday, April 19, 2002

3:00 - 6:00 pm Registration

Saturday, April 20, 2002

7:30 – 8:25 am Continental Breakfast for Refresher Course

8:00 – 12 noon **Optional Workshops for SCA Members Only**

Separate Registration Required

(Essentials of TEE Practice; Ischemic Heart Disease: TEE and Other Diagnostics; Thoracic Aortic Disease: Controversies and Innovations in Perioperative Care and Echocardiography)

8:25 am – 4:30 pm **Refresher Course**

(Open to all Annual Meeting Registrants)

Moderator: *Christina Mora Mangano, MD*

8:25 – 8:30 am **Welcome & Introductions**

Roger A. Moore, MD, President; Christina Mora Mangano, MD, Scientific Program Chair

8:30 – 9:10 am **Antifibrinolytics in CPB and/or Circulatory Arrest**

Craig R. Smith, MD

9:10 – 9:50 am **Alternative Medicine in Cardiac Disease?**

Mehmet Oz, MD

9:50 – 10:30 am **Echocardiography and Unusual Causes of Valve Pathology**

Heidi Connolly, MD

10:30 – 10:50 am Coffee Break

10:50 – 11:30 am **Focus on TEE and the Mitral Valve**

Colleen Koch, MD

11:30 am – 1:30 pm Lunch on own

12 noon – 1:00 pm **Resident/Fellow Lunch with SCA Board of Directors** (Registration Required)

1:00 – 5:00 pm **Optional Workshops for SCA Members Only**

Separate Registration Required

(TEE for the Practicing Cardiac Anesthesiologist; Advanced Intraoperative TEE: Self-Assessment and Case Discussions; TEE Evaluation of Valvular Heart Disease; Pediatric/ Congenital Heart Disease)

1:30 – 2:10 pm **Update on Thoracic Anesthesia: Tubes, Stents and Beyond**

Jay B. Brodsky, MD

2:10 – 2:50 pm **Gender and Risk in Cardiac Surgery**

Nancy A. Nussmeier, MD

2:50 – 3:30 pm **Perioperative Management of Right Heart Failure**

Laureen Hill, MD

3:30 – 3:50 pm Coffee Break

3:50 – 4:30 pm **Blood Substitutes – Coming to Your Anesthesia Cart Soon**

Joyce Wahr, MD

5:45 – 7:45 pm **Optional Fireside Chats**

Separate Registration Required

(Coagulation Monitoring; Thoracic Anesthesiology)

2002 Annual Meeting Faculty

George A. Arndt, MD

*University of Wisconsin
Madison, WI*

Solomon Aronson, MD

*University of Chicago
Chicago, IL*

Peter L. Bailey, MD

*University of Rochester
Rochester, NY*

Paul G. Barash, MD

*Yale University School of Medicine
New Haven, CT*

Victor C. Baum, MD

*University of Virginia Health Sciences Cntr.
Charlottesville, VA*

Elliott Bennett-Guerrero, MD

*Columbia-Presbyterian Medical Center
New York, NY*

Dan E. Berkowitz, MD

*Johns Hopkins University
Baltimore, MD*

Karin Bierstein, JD, MPH

*American Society of Anesthesiologists
Washington, DC*

Simon C. Body, MB

*Brigham & Women's Hospital
Boston, MA*

Jay B. Brodsky, MD

*Stanford University
Stanford, CA*

John F. Butterworth, IV, MD

*Wake Forest University School of Medicine
Winston-Salem, NC*

Walter R. Chitwood, MD

*East Carolina University
Greenville, NC*

C. David Collard, MD

*Texas Heart Institute
Houston, TX*

Stephen Colvin, MD

*New York University
New York, NY*

Heidi Connolly, MD

*Mayo Clinic
Rochester, MN*

Joel D. Cooper, MD

*Washington University School of Medicine
St. Louis, MO*

Gerard Criner, MD

*Temple University
Philadelphia, PA*

Cliff Deutschmann, MD

*University of Pennsylvania
Philadelphia, PA*

Wulf Dietrich, MD

*German Heart Center
Munich, Germany*

Sunday, April 21, 2002

6:45 – 8:00 am	Problem-based Learning Discussions
7:00 – 8:00 am	Continental Breakfast
8:00 – 10:00 am	The Failing Heart <i>Moderator: Stanton K. Sherman, MD</i> <ul style="list-style-type: none">• Pathophysiology of Congestive Heart Failure – Roberta Hines, MD• Pharmacological Intervention for Congestive Heart Failure – Jill Kalman, MD• Surgical Challenges for the Patient with Heart Failure – Mehmet C. Oz, MD
10:15 – 11:00 am	Coffee Break
11:00 am – 12 noon	Session A: Ischemic Mitral Insufficiency <i>Moderator: Solomon Aronson, MD</i> <ul style="list-style-type: none">• Mechanisms of Ischemic MR – Robert Levine, MD• Surgical Options for Ischemic MR – Carlos Duran, MD, PhD Session B: Anesthesia & Analgesia Session Informed Consent and Good Clinical Practice: What Makes Clinical Research Ethical and Valid <i>Moderator: John F. Butterworth, IV, MD</i> Presenters: Robert N. Sladen, MD and John F. Butterworth, IV, MD Session C: Poster Discussion Session
12 noon – 1:30 pm	Lunch on own
1:30 – 3:30 pm	Session A: Alternative Approaches to Cardiac Surgery <i>Moderator: Peter Bailey, MD</i> <ul style="list-style-type: none">• Off-pump Coronary Artery Bypass - Valavanur A. Subramanian, MD• Surgical Approaches to the Failing Heart - Mehmet C. Oz, MD• Port-Access Surgery - Stephen Colvin, MD• Robotics in Cardiac Surgery - Walter R. Chitwood, MD Session B: Thoracic Anesthesia <i>Moderator: Simon Body, MB</i> <ul style="list-style-type: none">• One-lung Ventilation in a Patient with a Past History of Exceptionally Difficult Intubation. What Do I Do? - George A. Arndt, MD• Combined Cardiac and Pulmonary Surgery - Role and Applications Paul S. Myles, MB, BS, MPH, MD• Anticoagulated Patient with Recurrent Hemo-Pneumothorax for Thoracoscopic Drainage Paul B. Zanaboni, MD, PhD• Severe Pulmonary and Right Heart Dysfunction – an Anesthesiologist's Worst Nightmare Paul M. Heerdt, MD, PhD• Dysrhythmia Prophylaxis and Treatment During Thoracic Surgery - Peter D. Slinger, MD Session C: Pediatrics <i>Moderators: Victor Baum, MD and Emad Mossad, MD</i> <ul style="list-style-type: none">• New and Future Therapies for Pulmonary Hypertension: Are They Better than NO? Evelyn Horn, MD• Congenital Heart Disease and Pregnancy - Lawrence Tsen, MD• What's New in Pediatric Perfusion/Cardioplegia? - James DiNardo, MD• Neuromonitoring in Pediatric Cardiac Surgery: Does it Make a Difference? Emad Mossad, MD Session D: Research <i>Moderator: Lee A. Fleisher, MD</i> <ul style="list-style-type: none">• Research in Perioperative Cardiovascular Care: Current Funding Options Lee A. Fleisher, MD• The Role of Gravity in Shaping the Cardiovascular System - Dan E. Berkowitz, MD• The Role of Volatile Anesthetics on Myocardial Ischemia-Reperfusion Nader D. Nader, MD, PhD• Effects of Vascular Tone and Hypoxia on Pulmonary Arterial Response in Normal and Emphysematous Lung - Ronald L. Harter, MD
3:30 – 4:15 pm	Coffee Break
4:15 – 5:30 pm	The Future of Cardiovascular Medicine <i>Moderators: Robert Savage, MD and Paul Barash, MD</i> Panel: Dennis Mangano, PhD, MD; Carl C. Hug, Jr., MD, PhD; J. G. Reves, MD; Daniel M. Thys, MD; Michael F. Roizen, MD Perspectives of the Future of Cardiovascular Medicine Valentin Fuster, MD; Carlos Duran, MD, PhD

James A. DiNardo, MD

*Children's Hospital
Boston, MA*

Carlos Duran, MD, PhD

*International Heart Institute of Montana
Missoula, MT*

Jane C.K. Fitch, MD

*University of Oklahoma
Oklahoma City, OK*

Lee A. Fleisher, MD

*Johns Hopkins University
Baltimore, MD*

Manuel Fontes, MD

*Weill Medical College of Cornell University
New York, NY*

Valentin Fuster, MD

*Mount Sinai School of Medicine
New York, NY*

Hilary P. Grocott, MD

*Duke University Medical Center
Durham, NC*

Ronald L. Harter, MD

*Ohio State University Medical Center
Columbus, OH*

Paul M. Heerdt, MD, PhD

*New York Hospital
New York, NY*

Lauren Hill, MD

*Washington University School of Medicine
St. Louis, MO*

Roberta Hines, MD

*Yale University School of Medicine
New Haven, CT*

Charles W. Hogue, MD

*Washington University School of Medicine
St. Louis, MO*

Evelyn Horn, MD

*Babies' Hospital
New York, NY*

Carl C. Hug, Jr., MD, PhD

*Emory University School of Medicine
Atlanta, GA*

Jill Kalman, MD

*Beth Israel Hospital
New York, NY*

Colleen Koch, MD

*Cleveland Clinic Foundation
Cleveland, OH*

Greg Koski, MD

*Office of Human Research Protection
Washington, DC*

Donald Landry, MD

*Columbia University
New York, NY*

John H. Lemmer, Jr, MD

*NW Surgical Associates
Portland, OR*

Robert Levine, MD

*Brigham & Women's Hospital
Boston, MA*

Monday, April 22, 2002

6:45 – 8:00 am

Problem-based Learning Discussions

7:00 – 8:00 am

Continental Breakfast with Exhibitors

8:00 – 10:15 am

Monograph Session: Perioperative Organ Protection

Moderator: Mark F. Newman, MD

- Systemic Inflammatory Response Syndrome and Organ Dysfunction: Opportunities for Treatment
Elliott Bennett-Guerrero, MD
- Myocardial Protection Strategies in Cardiac Surgery: Present and Future
Edward D. Verrier, MD
- Perioperative Neuroprotection in Cardiac Surgery: Current Strategies and Future Directions
Hilary Grocott, MD
- Perioperative Renal Dysfunction: Implications and Strategies for Protection
Mark Stafford-Smith, MD

10:15 – 11:00 am

Coffee Break w/ Exhibitors

11:00 am – 12 noon

Abbott Lecture: Congenital Heart Disease in Adults: A Historical Perspective with Personal Reminiscences - Joseph Perloff, MD

12 noon – 12:30 pm

Business Meeting

12:30 – 1:30 pm

Lunch with Exhibitors

1:30 – 3:30 pm

Session A: Advances and Setbacks in Transfusion Therapy

Moderator: Linda Shore-Lesserson, MD

- Changes in Cardiac Surgery as a Result of Antiplatelet Therapy
John H. Lemmer, Jr, MD
- Avoidance of Transfusion. Is It a Rational Approach?
Bruce D. Spiess, MD
- Heparin-induced Thrombocytopenia: Increasing Incidence or Over-diagnosis?
Wulf Dietrich, MD
- Transfusion Implications of Off-Pump Cardiac Surgery
Jane C.K. Fitch, MD

Session B: Poster Discussion Session

Session C: Poster Discussion Session

3:30 – 4:15 pm

Coffee Break with Exhibitors

4:15 – 5:30 pm

ACLS

Moderator: Nnette M. Schwann, MD

- Perioperative Resuscitation: Interpreting New ACLS Guidelines
Dan E. Berkowitz, MD
- New Therapies for Life Threatening Perioperative Arrhythmias
Charles W. Hogue, MD

6:00 – 8:00 pm

Reception with Exhibitors

Dennis Mangano, PhD, MD

Ischemia Research & Education
Foundation
San Francisco, CA

Christina Mora Mangano, MD

Stanford University
Stanford, CA

Emad B. Mossad, MD

Cleveland Clinic Foundation
Cleveland, OH

Paul S. Myles, MB, BS, MPH, MD

Alfred Hospital
Prahan, Victoria, Australia

Nader D. Nader, MD, PhD

SUNY – Buffalo
Buffalo, NY

Mark F. Newman, MD

Duke University Medical Center
Durham, NC

Nancy A. Nussmeier, MD

Texas Heart Institute
Houston, TX

Mehmet C. Oz, MD

Columbia University
New York, NY

Joseph Perloff, MD

UCLA Center for the Health Sciences
Los Angeles, CA

David T. Porembka, DO

University of Cincinnati
Cincinnati, OH

Scott T. Reeves, MD, MBA

Medical University of South Carolina
Charleston, SC

J. G. Reves, MD

Medical University of South Carolina
Charleston, SC

Michael F. Roizen, MD

University of Rochester
Rochester, NY

Michael Rosenberg, MD

Carrier Medical Director for Michigan
Detroit, MI

Robert Savage, MD

Cleveland Clinic Foundation
Cleveland, OH

Nnette M. Schwann, MD

MCP Hahnemann University School of
Medicine
Philadelphia, PA

Stanton K. Shernan, MD

Brigham & Women's Hospital
Boston, MA

Steven Sheingold

Center for Medicare and Medicaid Services
Baltimore, MD

Linda Shore-Lesserson, MD

Mount Sinai Medical Center
New York, NY

Tuesday, April 23, 2002

6:45 – 8:00 am	Problem-based Learning Discussions
7:00 – 8:00 am	Continental Breakfast with Exhibitors
8:00 – 10:15 am	Implementing New Surgical Therapeutics: What Should be the “Litmus Test” for Validation <i>Moderator: Charles W. Hogue, MD</i> <ul style="list-style-type: none">• Innovation and Research in Medicine and Technology: Drawing a Line in the Sand Greg Koski, MD• Rationale for NETT Gerard Criner, MD• A Tale of Two Cities: The Dilemma of Introducing New Surgical Techniques Joel D. Cooper, MD• Evaluating the Risks and Benefits of New Surgical Procedures: The Role of Medicare Steven Sheingold
10:15 – 11:00 am	Coffee Break w/ Exhibitors
11:00 am – 12 noon	ASA Update
12 noon – 1:30 pm	Lunch with Exhibitors
1:30 – 3:30 pm	Session A: Economic Dragons vs. Our Army: Challenges for the Early 21st Century <i>Moderator: Scott T. Reeves, MD, MBA</i> <ul style="list-style-type: none">• The Local Medical Review Process: Where it came from, Where it is, Where it is going Michael Rosenberg, MD• Dragon-Slaying 101: ASA's Role in the TEE Issue! Karin Bierstein, JD, MPH• Workforce Estimates J.G. Reves, MD• Panel Discussion/Questions Session B: Vasodilated Shock after Cardiac Surgery <i>Moderators: Manuel Fontes, MD and Robert N. Sladen, MD</i> <ul style="list-style-type: none">• Myocardial Function, and Dysfunction in Sepsis and Vasodilated Shock Cliff Deutschmann, MD• Clinical Utility of Transesophageal Echocardiography in Evaluating Postoperative Cardiac Function David T. Porembka, DO• Vasodilated Shock: The Role of Vasopressin Donald Landry, MD Session C: Poster Discussion Session Session D: Poster Discussion Session
3:30 – 4:15 pm	Coffee Break
4:15 – 5:30 pm	Ischemia-Reperfusion Injury <i>Moderator: Peter van der Starre, MD</i> <ul style="list-style-type: none">• Pathophysiology of Ischemia-Reperfusion Injury Edward D. Verrier, MD• Therapeutic Strategies for Ischemia-Reperfusion Injury C. David Collard, MD

Wednesday, April 24, 2002

7:00 – 8:00 am	Continental Breakfast for Morning Workshops
8:00 – 12 noon	Optional Workshops for SCA Members Only Separate Registration Required (Echocardiographic Evaluation of Cardiac Performance; TEE in Valvular Heart Disease: A Comprehensive Review)

Robert N. Sladen, MD
Columbia University
New York, NY

Peter D. Slinger, MD
The Toronto Hospital
Toronto, Ontario, Canada

Craig R. Smith, MD
Columbia University
New York, NY

Bruce D. Spiess, MD
Virginia Commonwealth University/
Medical College of Virginia
Richmond, VA

Mark Stafford-Smith, MD
Duke University Medical Center
Durham, NC

Valavanur A. Subramanian, MD
Lenox Hill Hospital
New York, NY

Daniel M. Thys, MD
St. Luke's-Roosevelt Hospital Center
New York, NY

Lawrence Tsen, MD
Brigham & Women's Hospital
Boston, MA

Peter van der Starre, MD
Weezelanden Hospital
Zwolle, The Netherlands

Edward D. Verrier, MD
University of Washington
Seattle, WA

Joyce A. Wahr, MD
University of Michigan
Ann Arbor, MI

Paul B. Zanaboni, MD, PhD
Washington University
St. Louis, MO

Saturday, April 20, 2002 • Morning Workshops

Separate Registration Required

7:00 – 8:00 am Continental Breakfast for Morning Workshops

Essentials of TEE Practice

Co-Chairs: Albert C. Perrino, Jr, MD/Patricia Murphy, MD (audience response system will be utilized)

Educational Objective: This session will provide a survey of the essential techniques of intraoperative TEE practice. Both didactic and video breakout sessions are included. Participants in this program will achieve an understanding of: 1) the principles and practice of 2-D echocardiography for assessment of ventricular and valvular function; 2) how to harness Doppler modalities to enhance intraoperative TEE examinations. As this program is designed to complement the Saturday afternoon session "TEE for the Practicing Cardiac Anesthesiologist", attendance at this morning session is encouraged for those attending the afternoon session.

8:00 – 8:30 am	Technology of 2-D and Doppler Echocardiography Albert C. Perrino, Jr, MD
8:30 – 9:00 am	2-D Echo Examination Stuart J. Weiss, MD
9:00 – 9:30 am	Myocardial Ischemia and LV Performance Martin J. London, MD
9:30 – 10:00 am	Common Valvular Abnormalities and Cardiac Defects Patricia Murphy, MD
10:00 – 10:30 am	Hemodynamics Andrew Maslow, MD
10:30 – 10:45 am	Coffee Break
10:45 – 11:20 am	Breakouts I, II, III
11:25 – 12 noon	Breakouts IV, V, VI Breakouts I, II, III – Diagnosis with 2-D Imaging I. John Augoustides, MD II. Kathryn Glas, MD III. Joseph P. Miller, MD Breakouts IV, V, VI – Qualitative and Quantitative Assessment of Valvular Disease IV. Charl DeWet, MD V. Lee Heinrich, MD VI. Andre-Stephane Lambert, MD Participants will be randomly assigned to each breakout topic.

Ischemic Heart Disease: TEE and Other Diagnostics

Co-Chairs: Ivan Salgo, MD; Jack S. Shanewise, MD

Educational Objective: At the conclusion of this workshop, the participant will have an enhanced understanding of diagnosing myocardial ischemia by echocardiographic methods with practical points applicable to intraoperative imaging. Challenges and pitfalls relating to daily practice including anatomic coronary variability, artifacts, poor image quality, viability assessment ischemic complications, mechanical support and off-pump revascularization will be discussed. Practical points from an expert panel will be used to assess selected case studies.

8:00 – 8:30 am	Diagnosing Myocardial Ischemia by TEE Joseph S. Savino, MD
8:30 – 9:00 am	Echocardiography Pitfalls and Artifacts in Analyzing Wall Motion Ivan Salgo, MD
9:00 – 9:30 am	Wall Motion: Fact or Fiction - Preoperative Assessment of Ischemic Heart Disease by Stress Echocardiography Randolph P. Martin, MD
9:30 – 10:00 am	Complications of Myocardial Infarction and Diagnosis by TEE Jack S. Shanewise, MD
10:00 – 10:15 am	Coffee Break
10:15 – 10:45 am	Ischemic Cardiomyopathies: TEE Assessment of VAD Function Marc Stone, MD
10:45 – 11:15 am	TEE for OPCAB Luis Michelsen, MD
11:15 – 11:45 am	Case Studies in Ischemic and VAD Function
11:45 – 12 noon	Questions & Answers

2002 Saturday Workshop Faculty

Martin D. Abel, MBChB
*Mayo Clinic
Rochester, MN*

John G. T. Augoustides, MD
*University of Pennsylvania
Philadelphia, PA*

Hamdy Awad, MD
*The Ohio State University
Columbus, OH*

Victor Baum, MD
*University of Virginia Health
Sciences Center
Charlottesville, VA*

Sabrina Bent, MD
*Baylor College of Medicine
Houston, TX*

Mary Beth Brady, MD
*Johns Hopkins University
Baltimore, MD*

Albert T.W. Cheung, MD
*University of Pennsylvania
Philadelphia, PA*

Roger Click, MD
*Mayo Clinic
Rochester, MN*

Heidi Connolly, MD
*Mayo Clinic
Rochester, MN*

Laurie Davies, MD
*University of Florida
Gainesville, FL*

Charl DeWet, MD
*Washington University
St. Louis, MO*

Benjamin Drenger, MD
*Hadassah University Hospital
Jerusalem, Israel*

Kristin Galli, MD
*Children's Hospital of Philadelphia
Philadelphia, PA*

Kathryn E. Glas, MD
*Emory University School of Medicine
Atlanta, GA*

Alina M. Grigore, MD
*Texas Heart Institute
Houston, TX*

Lee Heinrich, MD
*Toronto General Hospital
Toronto, Ontario, Canada*

Zak Hillel, MD
*St. Luke's-Roosevelt Hospital Center
New York, NY*

Greg Hirsch, MD
*Dalhousie University
Halifax, Nova Scotia, Canada*

Kristine J. Hirsch, MD
*Dalhousie University
Halifax, Nova Scotia, Canada*

Thoracic Aortic Disease: Controversies and Innovations in Perioperative Care and Echocardiography

Co-Chairs: David Zvara, MD and Alina Grigore, MD

Educational Objective: The attendee will gain an understanding of the perioperative management of a patient with thoracic aortic disease. Special attention to innovations in anesthetic care and intraoperative echocardiography of the aorta will be emphasized.

8:00 – 8:10 am	Introductory Remarks David Zvara, MD and Alina Grigore, MD
8:10 – 8:45 am	Anesthetic Implications of Aortic Disease David Zvara, MD
8:45 – 9:20 am	Echocardiography of the Aorta: What every Anesthesiologist Needs to Know Hamdy Awad, MD
9:20 – 9:55 am	Anesthetic Management of Descending Aortic Surgery: Can Anything be Done to Prevent Paralysis? Benjamin Drenger, MD
9:55 – 10:10 am	Coffee Break
10:10 – 10:45 am	Controversies in Pharmacologic Neuroprotection During Deep Hypothermic Circulatory Arrest Michael H. Wall, MD
10:45 – 11:20 am	Innovations in Surgical Management and Aortic Disease David A. Ott, MD
11:20 – 11:55 am	Controversies in Case Management and Panel Discussion Alina Grigore, MD
11:55 – 12 noon	Concluding Remarks David Zvara, MD and Alina Grigore, MD

Afternoon Workshops

Separate Registration Required

12:00 noon – 1:00 pm Lunch for Afternoon Workshops

TEE for the Practicing Cardiac Anesthesiologist

Co-Chairs: Mary Beth Brady, MD and Linda Shore-Lesserson, MD

Educational Objectives: At the conclusion of the workshop, the participant will have an understanding of the practical aspects of TEE that are needed for the cardiac anesthesiologist. Participants of this workshop are expected to have some experience with TEE in their practice. Those with little TEE experience are advised to register for the "Essentials of TEE" workshop as well. Knowledge gained from this workshop will enhance the intraoperative skills for diagnosing and assessing valvular heart disease, valve replacement surgery, cardiac myopathic disease, and artifacts in TEE imaging.

1:00 – 1:40 pm	Aortic Valve Evaluation Mary Beth Brady, MD
1:40 – 2:20 pm	Mitral Valve Evaluation Colleen Koch, MD
2:20 – 3:00 pm	Cardiomyopathy Jack S. Shanewise, MD
3:00 – 3:15 pm	Coffee Break
3:15 – 3:40 pm	Prosthetic Valve Evaluation Randolph P. Martin, MD
3:40 – 4:05 pm	Artifacts and Common Imaging Errors Zak Hillel, MD
4:05 – 5:00 pm	Self-Assessment Cases/Panel Discussion Steven Konstadt, MD/Mary Beth Brady, MD/Jack S. Shanewise, MD

George Hoffman, MD
*Children's Hospital
Milwaukee, WI*

Ingrid Hollinger, MD
*Mount Sinai Medical Center
New York, NY*

Colleen Koch, MD
*Cleveland Clinic Foundation
Cleveland, OH*

Steven N. Konstadt, MD
*Mount Sinai Medical Center
New York, NY*

Andre-Stephane Lambert, MD
*St. Michael's Hospital
Toronto, Ontario, Canada*

Martin J. London, MD
*San Francisco VA Medical Center
San Francisco, CA*

Randolph P. Martin, MD
*Emory University School of Medicine
Atlanta, GA*

Andrew D. Maslow, MD
*Rhode Island Hospital
Providence, RI*

Luis Michelsen, MD
Dallas, TX

Joseph P. Miller, MD
*Madigan Army Medical Center
Tacoma, WA*

Patricia Murphy, MD
*Toronto General Hospital
Toronto, Ontario, Canada*

David A. Ott, MD
*Texas Heart Institute
Houston, TX*

Albert C. Perrino, Jr, MD
*Yale University School of Medicine
New Haven, CT*

Jan Quaegebeur, MD
*Children's Hospital of New York
New York, NY*

Scott T. Reeves, MD, MBA
*Medical University of South Carolina
Charleston, SC*

Isobel Russell, PhD, MD
*University of California, San Francisco
San Francisco, CA*

Ivan Salgo, MD
*Phillips Medical Systems
Andover, MA*

Robert M. Savage, MD
*Cleveland Clinic Foundation
Cleveland, OH*

Joseph S. Savino, MD
*University of Pennsylvania
Philadelphia, PA*

Jack S. Shanewise, MD
*Emory University School of Medicine
Atlanta, GA*

Advanced Intraoperative TEE: Self-Assessment and Case Discussions

Chair: Martin D. Abel, MBChB (audience response system will be utilized)

Educational Objective: To present multiple TEE self-assessment cases of patients having CV surgery with multidisciplinary faculty and interactive discussion. This program will be directed at the cardiovascular anesthesiologist, surgeon, and/or echocardiographer involved in the intraoperative care of patients having cardiovascular surgery and who have a working knowledge of transesophageal echocardiography. The audience response system will be used. Cases presented will include but will not be limited to the following clinical scenarios: endocarditis, valvular heart disease, asymmetric septal hypertrophy, mitral valve repair, off-pump cardiac surgery, intracardiac masses.

1:00 – 1:10 pm	Welcome Martin D. Abel, MBChB
1:10 – 3:15 pm	Case Discussions Panelists: Roger Click, MD/ Heidi Connolly, MD/ Kenton J. Zehr, MD
3:15 – 3:30 pm	Coffee Break
3:30 – 5:00 pm	Case Discussions

TEE Evaluation of Valvular Heart Disease: What to Look for and How to Communicate it to our Surgeons

Chair: Scott T. Reeves, MD, MBA

Educational Objective: At the conclusion of this workshop the participant will have an understanding of how to evaluate cardiac valve function with echocardiography and other diagnostic modalities. The participant will gain an appreciation for the interaction needed between the cardiovascular anesthesiologist and cardiothoracic surgeon to optimize surgical outcomes for mitral valve repair procedures.

12:55 – 1:00 pm	Introductions Scott T. Reeves, MD, MBA
1:00 – 1:30 pm	Mitral Regurgitation Colleen G. Koch, MD
1:30 – 2:00 pm	Mitral Stenosis Robert M. Savage, MD
2:00 – 2:30 pm	Aortic Valve Scott T. Reeves, MD, MBA
2:30 – 3:00 pm	Tricuspid and Pulmonic Valves Gautam M. Sreeram, MD
3:00 – 3:30 pm	Coffee Break
3:30 – 4:00 pm	Prosthetic Valves Albert T.W. Cheung, MD
4:00 – 5:00 pm	Echocardiographic Evaluation and Surgical Decision Making in Mitral Valve Repair/Replacement Kristine J. Hirsch, MD/Greg Hirsch, MD

Pediatric/Congenital Heart Disease

Co-Chairs: Victor Baum, MD and Sabrina Bent, MD

Educational Objective: Through a series of both lectures and informal interactive sessions, this year the Pediatric Workshop will re-establish a workshop that better reflects the ideal of an interactive session than does solely a series of lectures. The presenters are all experts in their fields, and once again we have invited an outstanding pediatric cardiac surgeon for a different perspective.

1:00 – 1:05 pm	Introductory Remarks Victor Baum, MD and Sabrina Bent, MD
1:05 – 1:45 pm	A Pediatric TEE Quiz Isobel Russell, PhD MD
1:45 – 2:30 pm	Pro/Con: Very Early Extubation After Pediatric Cardiac Surgery Always!: Ingrid Hollinger, MD Never!: Kristin Galli, MD
2:30 – 3:15 pm	Interesting Cases Laurie Davies, MD and Sabrina Bent, MD
3:15 – 3:30 pm	Question & Answer
3:30 – 3:45 pm	Coffee Break
3:45 – 4:15 pm	New Modifications of the Fontan Operation Jan Quaegebeur, MD
4:15 – 4:45 pm	Monitoring After the Norwood Operation George Hoffman, MD
4:45 – 5:00 pm	Question & Answer

Linda Shore-Lesserson, MD
*Mount Sinai Medical Center
New York, NY*

Gautam M. Sreeram, MD
*Duke University
Durham, NC*

Marc Stone, MD
*Mount Sinai Medical Center
New York, NY*

Michael H. Wall, MD
*Wake Forest University
Winston-Salem, NC*

Stuart J. Weiss, MD
*University of Pennsylvania
Philadelphia, PA*

Kenton J. Zehr, MD
*Mayo Clinic
Rochester, MN*

David Zvara, MD
*Wake Forest University
Winston-Salem, NC*

Fireside Chats (5:45 – 7:45 pm)

Separate Registration Required

Coagulation Monitoring

Co-Chairs: Fiona Ralley, MD and Linda Shore-Lesserson, MD

Educational Objective: This two-hour session will provide the participant with informative didactic lectures, where audience participation and interaction will be actively sought, followed by the ability to have “hands on” experience with some of the most up to date bedside coagulation monitors available for use in the OR to date. Expert assistance will be available to aid with the use of these machines. At the end of the session the participant will have learned: 1) pharmacology and clinical use of the new platelet inhibitor drugs currently available, how they can effect patient management in the OR, and how we can best manage these patients; 2) etiology and incidence of heparin resistance, how to recognize these patients and how to manage their heparinization during CPB; and 3) advantages and disadvantages of the available coagulation monitors for use in the OR or ICU.

5:45 – 6:10 pm	Heparin Resistance John H. Lemmer, Jr., MD
6:10 – 6:20 pm	Question & Answer
6:20 – 6:40 pm	Platelet Function in Cardiac Surgery Linda Shore-Lesserson, MD
6:40 – 6:50 pm	Question & Answer
6:50 – 7:10 pm	Point of Care Monitors of Platelet Function in Cardiac Surgery Patients Gregory A. Nuttall, MD
7:10 – 7:20 pm	Question & Answer
7:20 – 7:45 pm	Participants will visit the stations displaying point of care monitors

Thoracic Anesthesiology

Co-Chairs: Erin Sullivan, MD and Jerome M. Klapfta, MD

Educational Objective: Upon completion of this 2 hour workshop, participants will be able to: demonstrate approaches to achieving lung separation in a patient with a difficult airway; discuss patient selection criteria, intraoperative management and postoperative pain control options for patients undergoing new types of thoracoscopic surgery; and review anesthetic management algorithms for patients with large mediastinal masses.

5:45 – 6:00 pm	Overview of Workshop Erin Sullivan, MD and Jerome M. Klapfta, MD
6:00 – 6:35 pm	Breakouts I, II, III
6:35 – 7:10 pm	Breakouts III, I, II
7:10 – 7:45 pm	Breakouts II, III, I
Breakout I	Lung Separation and the Difficult Airway Edmond Cohen, MD; George Arndt, MD and Jerome M. Klapfta, MD
Breakout II	New Applications of Thoracoscopic Surgery Peter D. Slinger, MD and Neil Christie, MD
Breakout III	Management of Mediastinal Masses Simon Body, MB, ChB; Paul Heerdt, MD and John Schaefer, MD

Participants will be randomly assigned to each breakout session and will rotate through each one.

2002 Saturday Fireside Chat Faculty

George Arndt, MD
*University of Wisconsin
Madison, WI*

Simon Body, MB, ChB
*Brigham & Women's Hospital
Boston, MA*

Neil Christie, MD
*University of Pittsburgh
Pittsburgh, PA*

Edmond Cohen, MD
*Mount Sinai Medical Center
New York, NY*

Paul Heerdt, MD
*New York Hospital
New York, NY*

Jerome M. Klapfta, MD
*University of Chicago
Chicago, IL*

John H. Lemmer, Jr, MD
*NW Surgical Associates
Portland, OR*

Gregory A. Nuttall, MD
*Mayo Clinic
Rochester, MN*

Fiona Ralley, MD
*University of Western Ontario
London, Ontario, Canada*

John Schaefer, MD
*University of Pittsburgh
Pittsburgh, PA*

Linda Shore-Lesserson, MD
*Mount Sinai Medical Center
New York, NY*

Peter D. Slinger, MD
*The Toronto Hospital
Toronto, Ontario, Canada*

Erin Sullivan, MD
*University of Pittsburgh
Pittsburgh, PA*

Wednesday, April 24, 2002 • Morning Workshops

Separate Registration Required

7:00 – 8:00 am Continental Breakfast for Workshops

Echocardiographic Evaluation of Cardiac Performance

Chair: Stanton K. Shernan, MD (audience response system will be utilized)

Educational Objective: At the conclusion of the workshop, the participant will have an understanding of how TEE can be used to acquire qualitative and quantitative hemodynamic data to evaluate overall cardiac performance. Knowledge acquired from this workshop will help the participant appreciate perioperative clinical applications of TEE.

8:00 – 8:30 am	Physics M. Sharif Affifi, MD
8:30 – 9:00 am	Hemodynamics Scott M. Sadel, MD
9:00 – 9:30 am	Systolic Function Christopher McQuitty, MD
9:30 – 10:00 am	Diastolic Function Stanton K. Shernan, MD
10:00 – 10:30 am	Emerging Technologies Ivan Salgo, MD
10:30 – 10:45 am	Coffee Break
10:45 – 12 noon	Case Discussions with Audience Participation

TEE in Valvular Heart Disease: A Comprehensive Review

Chair: Jack Shanewise, MD

Educational Objective: At the conclusion of this workshop the participant will have an understanding of how to use TEE to evaluate important forms of cardiac valvular dysfunction. Emphasis will be placed on decision making during cardiac surgery.

8:00 – 8:30 am	PISA in the Evaluation of Valve Disease Jack S. Shanewise, MD
8:30 – 9:00 am	TEE Evaluation of Mitral Stenosis Donald Oxorn, MD
9:00 – 9:30 am	TEE Evaluation of Mitral Regurgitation Solomon Aronson, MD
9:30 – 10:00 am	Coffee Break
10:00 – 10:30 am	TEE Evaluation of Aortic Valve Disease Kathryn E. Glas, MD
10:30 – 11:00 am	TEE Evaluation of Tricuspid and Pulmonic Valve Disease Jack S. Shanewise, MD
11:00 – 11:30 am	TEE Evaluation of Prosthetic Valve Dysfunction Martin Goldman, MD
11:30 – 12 noon	Panel Discussion and Questions

2002 Wednesday Workshop Faculty

M. Sharif Affifi, MD
Yale University
New Haven, CT

Solomon Aronson, MD
University of Chicago
Chicago, IL

Kathryn E. Glas, MD
Emory University School of Medicine
Atlanta, GA

Martin Goldman, MD
Mount Sinai School of Medicine
New York, NY

Christopher McQuitty, MD
University of Texas Medical Branch
Galveston, TX

Donald Oxorn, MD
University of Washington
Seattle, WA

Scott M. Sadel, MD
Scotch Plains, NJ

Ivan Salgo, MD
Phillips Medical Systems
Andover, MA

Jack S. Shanewise, MD
Emory University School of Medicine
Atlanta, GA

Stanton Shernan, MD
Brigham & Women's Hospital
Boston, MA

Problem Based Learning (PBL) Discussions

Participants in the Problem Based Learning sessions will be able to download the objectives, case for review, questions, references, and a discussion for their PBL from the SCA website (www.scahq.org) prior to the meeting date. Participants are encouraged to review the references prior to the session, in preparation for discussion of the case. Each table is limited to (15) participants and two faculty members to allow for small group interaction, discussion, and exchange of ideas. Separate registration required on page 19.

Sunday, April 21, 2002 • 6:45 – 8:00 am

- Myocardial Ischemia and Infarction**
Claudia Spies, MD
- Control of Hemostasis**
Jerrold Levy, MD /Wulf Dietrich, MD
- Perioperative Decisions in the Clinical and Surgical Management of Heart Failure**
Robert Savage, MD/Jill Kalman, MD
- Lung Isolation: Endobronchial Tubes, Blockers and Difficult Airways**
Peter Slinger, MD/Jeffrey Katz, MD
- New Methods of Mechanical Ventilation**
Manuel Fontes, MD/James Ramsay, MD
- Monitoring: CABG Surgery with Non-invasive Cardiac Output Monitoring Techniques**
George Silvay, MD, PhD/Jeffrey Vender, MD
- Cardioprotection During Off-pump Cardiac Surgery** **SOLD OUT**
Wolfgang Toller, MD/David Collard, MD
- Benefits and Risks of Endovascular Repair of the Thoracic/Abdominal Aorta**
Michael Murray, MD/Michael Marin, MD

Monday, April 22, 2002 • 6:45 – 8:00 am

- Spinal Cord Injury and Thoracic Aortic Surgery**
Benjamin Drenger, MD/Christopher O'Connor, MD
- Prevention of Atrial Fibrillation after CABG**
Charles Hogue, MD/Grace Chien, MD
- Pediatric Cardiac Anesthesia**
Roger Moore, MD/Sabina Bent, MD
- Use of TEE in Minimally Invasive Surgery**
Jack Shanewise, MD/Martin London, MD
- Management of Cardiac Surgery in a Patient with Multiple Platelet Inhibitory Drugs**
Linda Shore-Lesserson, MD/John Lemmer, Jr, MD
- Heparin-induced Thrombocytopenia in Cardiac Anesthesia**
Andreas Koster, MD/Greg Nuttall, MD
- Congenital Heart Disease Case(s)**
Laurie Davies, MD/Suanne Daves, MD
- Coagulation Monitoring: Update 2002**
Fiona Ralley, MD/Jane Fitch, MD

Tuesday, April 23, 2002 • 6:45 – 8:00 am

- Off-pump Cardiac Surgery: Practice Issues-Update** **SOLD OUT**
Davy Cheng, MD/Rick Esposito, MD
- Ethical Issues in Heart and Lung Transplantation**
Richard Wolman, MD/Rosemarie Maddi, MD
- Neurologic Monitoring During Cardiac Surgery**
John Murkin, MD/Mark Newman, MD
- Transfusion Practices**
Bruce Spiess, MD/Alain Vuylsteke, MD
- Perioperative Renal Protection**
Robert Sladen, MD/David Rothenberg, MD
- Catch the Bluetooth and Wi-Fi Wireless Technology Wave!**
Mark Ereth, MD/David Reich, MD
- Case Discussions**
Case 1: Malignant Hyperthermia Compartment Syndrome - Charles Watson, MD
Case 2: Anaphylaxis with Aprotinin - Roland Demeyere, MD
- Right Ventricular Failure**
Roberta Hines, MD/Douglas Brown, MD

PBL Faculty

Sabrina T. Bent, MD <i>Houston, TX</i>	Michael Marin, MD <i>New York, NY</i>
Douglas V. Brown, MD <i>Chicago, IL</i>	Roger A. Moore, MD <i>Browns Mills, NJ</i>
Davy C.H. Cheng, MD <i>London, Ontario, Canada</i>	John M. Murkin, MD <i>London, Ontario, Canada</i>
Grace L. Chien, MD <i>Portland, OR</i>	Michael J. Murray, MD <i>Jacksonville, FL</i>
C. David Collard, MD <i>Houston, TX</i>	Mark F. Newman, MD <i>Durham, NC</i>
Suanne M. Daves, MD <i>Chicago, IL</i>	Gregory A. Nuttall, MD <i>Rochester, MN</i>
Laurie K. Davies, MD <i>Gainesville, FL</i>	Christopher J. O'Connor, MD <i>Chicago, IL</i>
Roland H. L. Demeyere, MD, PhD (Co-Chair) <i>Leuven, Belgium</i>	Fiona E. Ralley, MD <i>London, Ontario, Canada</i>
Wulf Dietrich, MD <i>Munich, Germany</i>	James G. Ramsay, MD <i>Atlanta, GA</i>
Benjamin Drenger, MD <i>Jerusalem, Israel</i>	David Reich, MD <i>New York, NY</i>
Mark H. Ereth, MD (Co-Chair) <i>Rochester, MN</i>	David Rothenberg, MD <i>Chicago, IL</i>
Rick Esposito, MD <i>New York, NY</i>	Robert M. Savage, MD <i>Cleveland, OH</i>
Jane C. K. Fitch, MD <i>Oklahoma, OK</i>	Jack S. Shanewise, MD <i>Atlanta, GA</i>
Manuel Fontes, MD <i>New York, NY</i>	Linda Shore-Lesserson, MD <i>New York, NY</i>
Roberta L. Hines, MD <i>New Haven, CT</i>	George Silvay, PhD, MD <i>New York, NY</i>
Charles W. Hogue, MD <i>St. Louis, MO</i>	Robert N. Sladen, MD <i>New York, NY</i>
Jill Kalman, MD <i>New York, NY</i>	Peter D. Slinger, MD <i>Toronto, Ontario, Canada</i>
Jeffrey A. Katz, MD <i>San Francisco, CA</i>	Claudia Spies, MD <i>Berlin, Germany</i>
Andreas Koster, MD <i>Berlin, Germany</i>	Bruce D. Spiess, MD <i>Richmond, VA</i>
John Lemmer, Jr., MD <i>Portland, OR</i>	Wolfgang Toller, MD <i>Graz, Austria</i>
Jerrold H. Levy, MD <i>Atlanta, GA</i>	Jeffrey S. Vender, MD <i>Chicago, IL</i>
Martin J. London, MD <i>San Francisco, CA</i>	Alain Vuylsteke, MD <i>Cambridge, United Kingdom</i>
Rosemarie Maddi, MD <i>Boston, MA</i>	Charles B. Watson, MD <i>Bridgeport, CT</i>
	Richard L. Wolman, MD <i>Madison, WI</i>

SCA 24th Annual Meeting & Workshops • April 20-24, 2002
New York Marriott Marquis, New York, NY

Hotel Registration

Please call or fax the hotel to make your reservation.

New York Marriott Marquis

1535 Broadway

New York, NY 10036

Reservation Phone (212) 704-8700

Reservation Fax (212) 704-8934

Marriott Toll Free (800) 843-4898 (Phone Reservations Only)

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Please print or type

Name _____
Last First MI

Preferred Mailing Address _____

City, State, Zip, Postal Code _____

Office Phone (_____) _____ Home Phone (_____) _____

Email _____ Fax # (_____) _____

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

Rates

New York Marriott Marquis

\$238 Single

\$258 Double

(Current taxes are 13.25 % with an additional \$2.00 occupancy tax per room, per night.)

The Society of Cardiovascular Anesthesiologists has reserved a block of rooms at the New York Marriott Marquis. In order to receive the special conference rate, advise the reservation agent that you are attending the SCA Conference. Reservations must be made prior to **March 29, 2002** in order to receive the conference rates. Reservations received after this date will be on a space available basis at regularly published rates. See page 5 for eligibility for prize drawings.

Please Reserve:

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

Non Smoking Smoking (Based on availability)

Special Requests: _____

In order to guarantee your reservation, a credit card will be required.

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

Card No. _____ Exp. Date _____

Signature _____ Name Printed on Card _____

Cut-off date: March 29, 2002

Rooms and rates are subject to availability and change

Credit card charged upon receipt. Reservations cancelled 48 hours prior to arrival date will receive a full refund if cancellation number is obtained.

SCA 24th Annual Meeting & Workshops • April 20-24, 2002
 New York Marriott Marquis, New York, NY

Scientific Program Registration

Please complete the Workshop Registration and Problem Based Learning Discussion Forms on pages 18 and 19, if necessary.

Please print or type on forms and return to:

SCA, 2209 Dickens Road, P.O. Box 11086, Richmond, VA 23230-1086
 Phone (804) 282-0084 • Fax form to: (804) 282-0090 • Register online at: www.scahq.org

Name _____ MD _____ PhD _____ Other _____
Last First MI

Address _____

City, State, Zip _____

Office Phone (_____) _____ Fax # (_____) _____

Email _____

Accompanying Person(s) Name(s)* _____

*The Accompanying Person Fee provides for admission to the Monday evening reception, hospitality suite (continental breakfast on Monday and Tuesday) and exhibit hall.

Annual Meeting Registration

	Through March 15, 2002	After March 15, 2002	
<input type="checkbox"/> Member	\$500	\$600	\$ _____
<input type="checkbox"/> Non-Member (MD, DO, PhD)*+	\$600	\$700	\$ _____
<input type="checkbox"/> Resident/Fellow (entire Annual Meeting)**	\$100	\$150	\$ _____
<input type="checkbox"/> Resident/Fellow (Refresher Course/Resident Lunch)^	\$ 25^	\$ 25^	\$ _____
<input type="checkbox"/> Non-Physician (Perfusionists)+	\$400	\$500	\$ _____
<input type="checkbox"/> Non-Physician (licensed to administer anesthesia)+	\$600	\$700	\$ _____
<input type="checkbox"/> Accompanying Person(s) # _____ @	\$ 25	\$ 30	\$ _____

*\$100 will be applied to SCA or SCA/IARS membership when accompanied by a membership application. Balance due immediately.

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

^This is a deposit and will be returned if you attend the luncheon provided for residents/fellows during the Refresher Course.

+Pre-registration of Workshops/Fireside Chats is available to SCA members only. If space is available, sessions will be open to non-members on site.

Check VISA MasterCard American Express Discover

If paying by check, check must be in US funds payable to SCA.

Card No. _____ Exp. Date _____

Signature _____

Name Printed on Card _____

Refund Policy: For the Workshops, Fireside Chats, Annual Meeting, and PBLDs, a full refund will be provided through March 15, 2002; an 80% refund will be provided from March 16 through April 1, 2002. After April 1, 2002, the Society will not refund any registration fees. Refunds will be determined by the date the **written** cancellation is received in the SCA's headquarters office.

Payment Total

Annual Meeting Total (this page) \$ _____

Workshop/Fireside Chat Total (from page 18) \$ _____

PBL Discussion Total (from page 19) \$ _____

Grand Total = _____

How did you hear about the meeting? Website Printed Program Postcard Mailing
 Word of mouth ASA Calendar of Meetings Other _____

For Office Use Only: Reg. #: _____ CC Auth.: _____ Check #: _____ Amount: \$ _____ Date Paid: _____
--

Workshop & Fireside Chat Registration

PLEASE PRINT/TYPE

Name _____ MD _____ PhD _____ Other _____
Last First MI

Address _____

City, State, Zip _____

Office Phone (_____) _____ Fax # (_____) _____

Email _____

(Pre-registration for SCA members only)

Course descriptions can be found on pages 10-14. Please select your first, second and third choices. Morning workshops include breakfast, afternoon workshops include lunch, and fireside chats include light snacks.

Saturday, April 20, 2002

Morning Workshops (Maximum Attendance 200)

Choice	Through March 15, 2002	After March 15, 2002	
_____ ^Essentials of TEE Practice	\$150	\$200	\$ _____
_____ Ischemic Heart Disease	\$150	\$200	\$ _____
_____ Thoracic Aortic Disease	\$150	\$200	\$ _____

Afternoon Workshops (Maximum Attendance 200)

_____ ^Advanced Intraoperative TEE	\$150	\$200	\$ _____
_____ TEE for the Practicing Cardiac Anesthesiologist	\$150	\$200	\$ _____
_____ TEE Evaluation of Valvular Heart Disease	\$150	\$200	\$ _____
_____ Pediatric/Congenital Heart Disease	\$150	\$200	\$ _____

Fireside Chats (Maximum Attendance 100)

_____ Coagulation Monitoring	\$75	\$100	\$ _____
_____ Thoracic Anesthesiology	\$75	\$100	\$ _____

Wednesday, April 24, 2002

Morning Workshops (Maximum Attendance 200)

_____ ^Echocardiographic Evaluation of Cardiac Performance	\$150	\$200	\$ _____
_____ TEE in Valvular Heart Disease: A Comprehensive Review	\$150	\$200	\$ _____

Total \$ _____

Please add this total to page 17

^These workshops will use the audience response system.

Problem Based Learning (PBL) Discussions Registration

PLEASE PRINT/TYPE

Name _____ MD _____ PhD _____ Other _____
Last First MI
Address _____
City, State, Zip _____
Office Phone () _____ Fax # () _____
Email _____

Please list your 1st, 2nd, and 3rd choice for each day.

Choice **Sunday, April 21, 2002 • 6:45 - 8:00 am**

- _____ **Table 1 - Myocardial Ischemia and Infarction** - Claudia Spies, MD
_____ **Table 2 - Control of Hemostasis** - Jerrold Levy, MD /Wulf Dietrich, MD
_____ **Table 3 - Perioperative Decisions in Clinical/Surgical Management of Heart Failure** - Robert Savage, MD/Jill Kalman, MD
_____ **Table 4 - Lung Isolation: Endobronchial Tubes, Blockers and Difficult Airways** - Peter Slinger, MD/Jeffrey Katz, MD
_____ **Table 5 - New Methods of Mechanical Ventilation** - Manuel Fontes, MD/James Ramsay, MD
_____ **Table 6 - Monitoring: CABG Surgery with Non-invasive Cardiac Output Monitoring Techniques** - George Silvay, MD, PhD/
Jeffrey Vender, MD
SOLD OUT **Table 7 - Cardioprotection During Off-pump Cardiac Surgery** - Wolfgang Toller, MD/David Collard, MD
_____ **Table 8 - Benefits & Risks of Endovascular Repair of the Thoracic/Abdominal Aorta** - Michael Murray, MD/Michael Marin, MD

Choice **Monday, April 22, 2002 • 6:45 - 8:00 am**

- _____ **Table 1 - Spinal Cord Injury and Thoracic Aortic Surgery** - Benjamin Drenger, MD/Christopher O'Connor, MD
_____ **Table 2 - Prevention of Atrial Fibrillation after CABG** - Charles Hogue, MD/Grace Chien, MD
_____ **Table 3 - Pediatric Cardiac Anesthesia** - Roger Moore, MD/Sabina Bent, MD
_____ **Table 4 - Use of TEE in Minimally Invasive Surgery** - Jack Shanewise, MD/Martin London, MD
_____ **Table 5 - Management of Cardiac Surgery in a Patient with Multiple Platelet Inhibitory Drugs** - Linda Shore-Lesserson, MD/
John Lemmer, Jr, MD
_____ **Table 6 - Heparin-induced Thrombocytopenia in Cardiac Anesthesia** - Andreas Koster, MD/Greg Nuttall, MD
_____ **Table 7 - Congenital Heart Disease Case(s)** - Laurie Davies, MD/Suanne Daves, MD
_____ **Table 8 - Coagulation Monitoring: Update 2002** - Fiona Ralley, MD/Jane Fitch, MD

Choice **Tuesday, April 23, 2002 • 6:45 - 8:00 am**

- SOLD OUT** **Table 1 - Off Pump Cardiac Surgery: Practice Issues-Update** - Davy Cheng, MD/Rick Esposito, MD
_____ **Table 2 - Ethical Issues in Heart and Lung Transplantation** - Richard Wolman, MD/Rosemarie Maddi, MD
_____ **Table 3 - Neurologic Monitoring during Cardiac Surgery** - John Murkin, MD/Mark Newman, MD
_____ **Table 4 - Transfusion Practices** - Bruce Spiess, MD/Alain Vuylsteke, MD
_____ **Table 5 - Perioperative Renal Protection** - Robert Sladen, MD/David Rothenberg, MD
_____ **Table 6 - Catch the Bluetooth and Wi-Fi Wireless Technology Wave!** - Mark Ereth, MD/David Reich, MD
_____ **Table 7 - Case Discussions**
Case 1: Malignant Hyperthermia Compartment Syndrome - Charles Watson, MD
Case 2: Anaphylaxis with Aprotinin - Roland Demeyere, MD
_____ **Table 8 - Right Ventricular Failure** - Roberta Hines, MD/Douglas Brown, MD

_____ of PBL Discussions registered for x \$40 = \$ _____

Please add total amount from this form to page 17.

You will be assigned to only one table per day. Each table is limited to 15 registrants. Registration fee: \$40.00 per person, per session. Fee includes continental breakfast.



SOCIETY OF CARDIOVASCULAR ANESTHESIOLOGISTS

MEMBERSHIP APPLICATION

2209 Dickens Road, P.O. Box 11086, Richmond, VA 23230
 Phone (804) 282-0084 • Fax (804) 282-0090 • Email sca@societyhq.com • www.scahq.org

Name (Last) (First) (MI)			<input type="checkbox"/> MD <input type="checkbox"/> DO <input type="checkbox"/> PhD		
Preferred Mailing Address <input type="checkbox"/> Home <input type="checkbox"/> Office					
City		State/Country		ZIP-Postal Code	
Date of Birth Month / Day / Year		Email Address			
Present Hospital Position					
Membership to Begin: <input type="checkbox"/> January 1 <input type="checkbox"/> July 1 20____			Type of Practice: <input type="checkbox"/> Private <input type="checkbox"/> University <input type="checkbox"/> Government <input type="checkbox"/> Other:		
Board Certification: Specialty Year			Board Eligibility: Specialty Year		

I AM APPLYING FOR: (SEE ELIGIBILITY REQUIREMENTS BELOW)

<input type="checkbox"/> Active SCA/Active IARS \$195	<input type="checkbox"/> Associate SCA/Active IARS \$195	<input type="checkbox"/> SCA/IARS Career Scientist \$195	<input type="checkbox"/> Resident/Fellow SCA/IARS/SPA/SAMBA/SIVA/STA \$70
<input type="checkbox"/> Active SCA Only \$175	<input type="checkbox"/> Associate SCA Only \$175	<input type="checkbox"/> SCA Career Scientist Only \$175	Residency/Fellowship Ends Month / Day / Year

ELIGIBILITY REQUIREMENTS

Active SCA/Active IARS and Active SCA Only	Associate SCA/Active IARS and Associate SCA Only	SCA/IARS Career Scientist and SCA Career Scientist Only	SCA/IARS/SPA/SAMBA/SIVA/STA Resident/Fellow
<ul style="list-style-type: none"> Diplomate of the American Board of Anesthesiology, or other international equivalent Possession of a degree of doctor of medicine, bachelor of medicine or doctor of osteopathy, or other international equivalent Possession of a valid license to practice medicine 	<ul style="list-style-type: none"> Completion of an anesthesia residency training program accredited by the ACGME or the American Osteopathic Association, or other international equivalent Possession of a degree of doctor of medicine, bachelor of medicine or doctor of osteopathy, or other international equivalent Possession of a valid license to practice medicine 	<ul style="list-style-type: none"> Career scientist actively involved in research relating to thoracic or cardiovascular anesthesia, or related fields of medicine Possession of a doctor or philosophy degree 	<ul style="list-style-type: none"> Physician in an approved anesthesiology training program accredited by the acgme or the American osteopathic association, or other international equivalent Possession of a degree of doctor of medicine, bachelor of medicine or doctor of osteopathy, or other international equivalent

MEMBERSHIP INCLUDES

Joint SCA/ IARS Membership	SCA Only Membership	Joint SCA/IARS/SPA/SAMBA/SIVA/STA Resident/Fellow
<ul style="list-style-type: none"> Subscription to <i>Anesthesia & Analgesia</i> Annual SCA Monograph Annual IARS review course lectures book Six issues of the SCA Newsletter Reduced fees for the annual meeting of both SCA & IARS Eligibility for workshops at the SCA annual meeting Availability of starter grants from SCA and research grants from IARS Access to member only section on SCA website offering online membership directory and online CME activities 	<ul style="list-style-type: none"> Subscription to <i>Anesthesia & Analgesia</i> Annual SCA Monograph Six issues of the SCA newsletter Reduced fees for meetings Eligibility for workshops at the SCA annual meeting Availability of starter grants from SCA Access to member only section on SCA website offering online membership directory and online CME activities 	<p>In addition to a monthly subscription to <i>Anesthesia & Analgesia</i>, joint resident membership provides numerous benefits from the six participating societies. Contact IARS (216/642-1124) for information about additional member benefits.</p>

Signature, Director Of Residency Program (Resident/Fellow Only)

Applicant Signature (All Applicants)

VISA MasterCard American Express Discover

Check — If paying by check, check must be payable to SCA (US FUNDS ONLY), and mailed to SCA, P.O. Box 11086, Richmond, VA 23230-1086.

Card No. _____ Exp. Date _____

Signature _____ Name Printed on Card _____

For Office Use Only: MBR. #: _____ CC Auth.: _____ Check #: _____ Amount: \$ _____ Date Paid: _____
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Learning Objectives

Workshops

Saturday, April 20, 2002

Essentials of TEE Practice

Co-Chairs: Albert C. Perrino, Jr, MD and Patricia Murphy, MD

Workshop Objectives: This session will provide a survey of the essential techniques of intraoperative TEE practice. Both didactic and video breakout sessions are included. Participants in this program will achieve an understanding of: 1) the principles and practice of 2-D echocardiography for assessment of ventricular and valvular function; 2) how to harness Doppler modalities to enhance intraoperative TEE examinations. As this program is designed to complement the Saturday afternoon session "TEE for the Practicing Cardiac Anesthesiologist", attendance at this morning session is encouraged for those attending the afternoon session.

Technology of 2-D and Doppler Echocardiography (Dr. Perrino)

At the conclusion of this lecture the participant will have a better understanding of the underlying principles for 2-D image creation, multiplane technology, and artifacts.

2-D Echo Examination (Dr. Weiss)

The audience will be examining a tour of cardiac anatomy as viewed with 2-D echocardiography. At the conclusion of this lecture the participant will have a better understanding of multiplane imaging.

Myocardial Ischemia and LV Performance (Dr. London)

At the conclusion of this lecture the participant will have a better understanding of the unique utility of TEE for assessment of global ventricular function and as a diagnostic tool for myocardial ischemia.

Common Valvular Abnormalities and Cardiac Defects (Dr. Murphy)

The objectives of this lecture are to introduce the participant to the common valvular abnormalities and simple congenital defects that are frequently seen in clinical TEE practice. At the conclusion of the lecture the participant should have the ability to recognize these common cardiac lesions.

Hemodynamics (Dr. Maslow)

At the conclusion of this lecture the participant will have a better understanding of the utility of Doppler techniques for quantitative analysis, including methods such as the Bernoulli equation, continuity equation, and cardiac output estimations.

Diagnosis with 2-D Imaging (Drs. Augoustides, Glas, Miller)

This breakout will discuss the utility and limitations of 2-D imaging for assessment of global and regional wall motion and as a means to guide therapeutic interventions. Topics included in this discussion will be selection of optimal imaging planes for ischemia and preload assessment. The use of 2-D imaging to aid diagnosis of atypical structures and common artifacts will be also presented.

Qualitative and Quantitative Assessment of Valvular Disease (Drs. DeWet, Heinrich, Lambert)

This breakout will illustrate the uses of both spectral and color Doppler techniques to assess valve function and hemodynamics.

Ischemic Heart Disease: TEE and Other Diagnostics

Chair: Ivan S. Salgo, MD

Workshop Objectives: At the conclusion of this workshop, the participant will have an enhanced understanding of diagnosing myocardial ischemia by echocardiographic methods with practical points applicable to intraoperative imaging. Challenges and pitfalls relating to daily practice including anatomic coronary variability, artifacts, poor image quality, viability assessment ischemic complications, mechanical support and off-pump revascularization will be discussed. Practical points from an expert panel will be used to assess selected case studies.

Diagnosing Myocardial Ischemia by TEE (Dr. Savino)

The participant will have a broader and practical understanding of utilizing the ASE/SCA intraoperative guidelines for segmenting perfusion territory and understand issues relating to diverse presentations of ischemic territory.

Echocardiography Pitfalls and Artifacts in Analyzing Wall Motion (Dr. Salgo)

The participant will gain an understanding of optimizing machine settings to achieve "best" image quality, what creates artifacts and how these relate to the cardiac mechanics.

Wall Motion: Fact or Fiction - Preoperative Assessment of Ischemic Heart Disease by Stress Echocardiography (Dr. Martin)

The participant will gain insight into the use of echocardiography for the assessment of myocardial viability. A brief comparison to non-echocardiographic techniques will be given. Insight into examining the subtleties of ventricular wall motion will be discussed as well as avoiding misdiagnoses.

Complications of Myocardial Infarction and Diagnosis by TEE (Dr. Shanewise)

The participant will have enhanced understanding of the complications of myocardial infarction and how these are diagnosed under emergent conditions.

Ischemic Cardiomyopathies: TEE Assessment of VAD Function (Dr. Stone)

The participant will become familiar with issues regarding mechanical support and how TEE can be used to examine adequacy of intra-aortic balloon counter pulsation, temporary and permanently implanted assist devices.

TEE for OPCAB (Dr. Michelsen)

The participant will acquire insight into the practical application of using TEE for off-pump myocardial revascularization.

Thoracic Aortic Disease: Controversies and Innovations in Perioperative Care and Echocardiography

Co-Chairs: David Zvara, MD and Alina Grigore, MD

Workshop Objectives: The attendee will gain an understanding of the perioperative management of a patient with thoracic aortic disease. Special attention to innovations in anesthetic care and intraoperative echocardiography of the aorta will be emphasized.

Anesthetic Implications of Aortic Disease (Dr. Zvara)

An overview of the impact of atherosclerotic disease on anesthetic practice. The incidence, pathogenesis and perioperative impact of thoracic disease will be reviewed.

Echocardiography of the Aorta: What every Anesthesiologist Needs to Know (Dr. Awad)

In this session basic and advanced principles of echocardiography of the aorta will be discussed. The lecture will focus on diagnosis of thoracic pathology using echocardiography.

Anesthetic Management of Descending Aortic Surgery: Can Anything be Done to Prevent Paralysis? (Dr. Drenger)

Principles and management of patients with descending aortic disease will be reviewed with special emphasis on protecting the spinal cord during the period of aortic clamping.

Controversies in Ascending and Aortic Arch Disease: Deep Hypothermic Circulatory Arrest and Cerebral Shunts (Dr. Wall)

Controversies in perioperative management of patients presenting for deep hypothermic arrest for repair of aortic arch disease will be reviewed. Data regarding the practice of steroid therapy, DHCA management, and cerebral shunts will be reviewed.

Innovations in Surgical Management and Aortic Disease (Dr. Ott)

Innovations in surgical care of the patient with thoracic aortic disease will be reviewed. There will be an emphasis on new techniques and outcome data to support current surgical practice.

Controversies in Case Management and Panel Discussion (Dr. Grigore)

Attendees will be exposed to several complex and controversial cases of thoracic aortic management. This interactive session will incorporate the panel and the audience to highlight varying practice techniques and experience with complex patient problems. Echocardiography will be emphasized as a component of the case presentation.

Learning Objectives

TEE for the Practicing Cardiac Anesthesiologist

Co-Chairs: Mary Beth Brady, MD and Linda Shore-Lesserson, MD
Workshop Objectives: At the conclusion of the workshop, the participant will have an understanding of the practical aspects of TEE that are needed for the cardiac anesthesiologist. Participants of this workshop are expected to have some experience with TEE in their practice. Those with little TEE experience are advised to register for the "Essentials of TEE" workshop as well. Knowledge gained from this workshop will enhance the intraoperative skills for diagnosing and assessing valvular heart disease, valve replacement surgery, cardiac myopathic disease, and artifacts in TEE imaging.

Aortic Valve Evaluation (Dr. Brady)

The participant will learn the basic 2-dimensional and Doppler evaluation of the aortic valve with emphasis on aortic stenosis and aortic insufficiency. Hemodynamics will be reviewed.

Mitral Valve Evaluation (Dr. Koch)

The participant will understand the evaluation of mitral stenosis and mitral regurgitation with 2D and Doppler examples of valvular anatomy and pathology. Pulmonary vein flow and atrial dynamics will also be covered.

Cardiomyopathy (Dr. Shanewise)

The participant will understand the unique TEE characteristics of dilated and hypertrophic cardiomyopathies and their associated valvular abnormalities. In addition, the TEE evaluation in restrictive cardiomyopathy and diastolic filling patterns will be discussed.

Prosthetic Valve Evaluation (Dr. Martin)

The participant will be taught the appearance and normal and abnormal flow patterns of many of the commonly implanted prosthetic intracardiac valves. Examples will be shown of endocarditis lesions.

Artifacts and Common Imaging Errors (Dr. Hillel)

The participant will understand the properties of ultrasound that create imaging artifacts and will be shown many common artifacts that mimic abnormal structures. Errors in diagnosing normal structures as abnormal will also be discussed.

Self-Assessment Cases/Panel Discussion (Drs. Konstadt/Brady/Shanewise)

The participants will view video cases and questions and will respond to multiple-choice questions. Faculty panelists will comment on these cases.

Advanced Intraoperative TEE: Self Assessment and Case Discussions

Chair: Martin D. Abel, MBChB

Workshop Objective: To present multiple TEE self-assessment cases of patients having CV surgery with multidisciplinary faculty and interactive discussion. This program will be directed at the cardiovascular anesthesiologist, surgeon, and/or echocardiographer involved in the intraoperative care of patients having cardiovascular surgery and who have a working knowledge of transesophageal echocardiography. The audience response system will be used. Cases presented will include but will not be limited to the following clinical scenarios: endocarditis, valvular heart disease, asymmetric septal hypertrophy, mitral valve repair, off-pump cardiac surgery, intracardiac masses.

TEE Evaluation of Valvular Heart Disease: What to Look for and How to Communicate it to our Surgeons

Chair: Scott T. Reeves, MD, MBA

Workshop Objective: At the conclusion of this workshop the participant will have an understanding of how to evaluate cardiac valve function with echocardiography and other diagnostic modalities. The participant will gain an appreciation for the interaction needed between the cardiovascular anesthesiologist and cardiothoracic surgeon to optimize surgical outcomes for mitral valve repair procedures.

Mitral Regurgitation (Dr. Koch)

At the conclusion of this lecture, the participant will have an understanding of how to grade mitral regurgitation and its causes.

Mitral Stenosis (Dr. Savage)

At the conclusion of this lecture, the participant will have an understanding of how to grade mitral stenosis and its causes.

Aortic Valve (Dr. Reeves)

At the conclusion of this lecture, the participant will have an understanding of how to grade aortic regurgitation and stenosis and its causes.

Tricuspid and Pulmonic Valves (Dr. Sreeram)

At the conclusion of this lecture, the participant will have an understanding of how to examine and evaluate the tricuspid and pulmonic valves.

Prosthetic Valves (Dr. Cheung)

At the conclusion of this lecture, the participant will have an understanding of how to examine and evaluate normal and abnormal prosthetic valves.

Echocardiographic Evaluation and Surgical Decision Making in Mitral Valve Repair/Replacement (Drs. K. Hirsch/G. Hirsch)

At the conclusion of this lecture, the participant will have an understanding of how to examine, evaluate and incorporate transesophageal echocardiographic data into the surgical decision making for mitral valve repair/replacement.

Pediatric/Congenital Heart Disease

Co-Chairs: Victor Baum, MD and Sabrina Bent, MD

Workshop Objectives: Through a series of both lectures and informal interactive sessions, this year the Pediatric Workshop will re-establish a workshop that better reflects the ideal of an interactive session than does solely a series of lectures. The presenters are all experts in their fields, and once again we have invited an outstanding pediatric cardiac surgeon for a different perspective.

A Pediatric TEE Quiz (Dr. Russell)

Transesophageal echocardiography has become essentially universally applied for pediatric cardiac surgery and pediatric cardiac anesthesiologists have developed experience with the technique and interpretation of TEE studies. This interactive session will present a series of "unknowns" which will challenge the attendees.

Pro/Con: Very Early Extubation After Pediatric Cardiac Surgery

(Always!: Dr. Hollinger/Never!: Dr. Galli)

Very early extubation of children after cardiac surgery (in the operating room or immediately on arrival in the ICU) has been suggested in several papers and is practiced at a variety of institutions. These discussants, both experienced pediatric cardiac anesthesiologists, will discuss the pros and cons of this approach and what they consider to be the limits for patient selection. Dr. Hollinger routinely extubates her patients early; Dr. Galli never does.

Interesting Cases (Drs. Davies/Bent)

Attendees will be presented with interesting and complicated pediatric cardiac cases from two leading institutions. Audience participation will be solicited in discussing these cases.

New Modifications of the Fontan Operation (Dr. Quaegebeur)

Since its original description in 1971, the Fontan procedure has undergone a series of modifications. Dr. Quaegebeur, a senior pediatric cardiac surgeon, will present the advantages and disadvantages of several of the newest modifications, including the external conduit and off-pump repair.

Monitoring After the Norwood Operation (Dr. Hoffman)

The perioperative management of children after the Norwood operation remains challenging. This lecture will address additional management approaches that the presenter has found improved results in his institution.

Learning Objectives

Coagulation Monitoring

Co-Chairs: Fiona Ralley, MD and Linda Shore-Lesserson, MD

Session Objectives: This two-hour session will provide the participant with informative didactic lectures, where audience participation and interaction will be actively sought, followed by the ability to have "hands on" experience with some of the most up to date bedside coagulation monitors available for use in the OR to date. Expert assistance will be available to aid with the use of these machines. At the end of the session the participant will have learned: 1) pharmacology and clinical use of the new platelet inhibitor drugs currently available, how they can effect patient management in the OR, and how we can best manage these patients; 2) etiology and incidence of heparin resistance, how to recognize these patients and how to manage their heparinization during CPB; and 3) advantages and disadvantages of the available coagulation monitors for use in the OR or ICU.

Heparin Resistance (Dr. Lemmer)

Upon completion of this lecture, participants will have a clearer understanding of the etiology and incidence of heparin resistance, which patients are at risk, how is it diagnosed and how do you manage these patients in the OR during CPB.

Platelet Function in Cardiac Surgery (Dr. Shore-Lesserson)

Upon completion of this lecture, participants will understand the mechanism of action of the different platelet inhibitor drugs currently in clinical practice, how these drugs can affect the management of patients undergoing cardiac surgery, how can we best monitor the effects of these drugs in the OR and how to manage patients we are scheduled for cardiac surgery who are receiving these drugs.

Point of Care Monitors of Platelet Function in Cardiac Surgery Patients (Dr. Nuttall)

Upon completion of this lecture, participants will have a better understanding of the use of the point of care coagulation monitors currently available for use in the OR, their advantages and disadvantages and the best one for the job. This is followed by a "hands on" experience where participants can try out the monitors under supervision, and ask questions on problems that may have arisen with their use in the past.

Thoracic Anesthesiology

Co-Chairs: Erin Sullivan, MD and Jerome M. Klafra, MD

Session Objectives: Upon completion of this 2-hour workshop, participants will be able to: demonstrate approaches to achieving lung separation in a patient with a difficult airway; discuss patient selection criteria, intraoperative management and postoperative pain control options for patients undergoing new types of thoracoscopic surgery; and review anesthetic management algorithms for patients with large mediastinal masses.

Breakout I. Lung separation and the difficult airway (Drs. Cohen/Arndt/Klafra)

Upon completion of this breakout, participants will be able to describe approaches for achieving lung separation in patients with various types of airway difficulties and demonstrate those techniques using lung separation devices in mannequins.

Breakout II. New applications of thoracoscopic surgery (Drs. Slinger/Christie)

Upon completion of this breakout, participants will be able to describe evolving patient selection criteria for emerging applications of thoracoscopic surgery, discuss implications of these surgical techniques for intraoperative anesthetic management and postoperative pain control.

Breakout III. Management of mediastinal masses (Drs. Body/Heerd/ Schaefer)

Upon completion of this breakout, participants will be able to, with the use of a simulator, diagnose and treat the hemodynamic and respiratory complications associated with anesthetizing patients having large mediastinal masses.

Wednesday, April 24, 2002

Echocardiographic Evaluation of Cardiac Performance

Chair: Stanton Sherman, MD

Workshop Objectives: At the conclusion of the workshop, the participant will have an understanding of how TEE can be used to acquire qualitative and quantitative hemodynamic data to evaluate overall cardiac performance. Knowledge acquired from this workshop will help the participant appreciate perioperative clinical applications of TEE.

Physics (Dr. Affifi)

At the conclusion of the lecture, the participant will have an understanding of the basic principles of ultrasound and Doppler physics.

Hemodynamics (Dr. Sadel)

At the conclusion of the lecture, the participant will have a principle understanding of how to obtain qualitative and quantitative hemodynamic data using echocardiographic techniques.

Systolic Function (Dr. McQuitty)

At the conclusion of the lecture, the participant will have an understanding of how to evaluate systolic function using echocardiography.

Diastolic Function (Dr. Sherman)

At the conclusion of the lecture, the participant will have an understanding of how to evaluate diastolic function using echocardiography.

Emerging Technologies (Dr. Salgo)

At the conclusion of the lecture, the participant will be introduced to new and emerging echocardiographic techniques for evaluating cardiac performance.

Case Discussions (Panel Members)

At the conclusion of this session, the participant will gain an appreciation for how the data acquired by evaluating cardiac performance with TEE can be utilized in the perioperative period to assist in the management of patients.

TEE in Valvular Heart Disease: A Comprehensive Review

Chair: Jack Shanewise, MD

Workshop Objectives: At the conclusion of this workshop the participant will have an understanding of how to use TEE to evaluate import forms of cardiac valvular dysfunction. Emphasis will be placed on decision making during cardiac surgery.

PISA in the Evaluation of Valve Disease (Dr. Shanewise)

At the conclusion of this lecture the participant will understand the principles underlying PISA and how to apply them in the evaluation of mitral stenosis and regurgitation.

TEE Evaluation of Mitral Stenosis (Dr. Oxorn)

At the conclusion of this lecture the participant will know how to grade the severity of mitral stenosis and be familiar with the TEE techniques to quantify mitral stenosis.

TEE Evaluation of Mitral Regurgitation (Dr. Aronson)

At the conclusion of this lecture the participant will know how to grade the severity of mitral regurgitation and be familiar with the TEE techniques to assess mitral regurgitation.

TEE Evaluation of Aortic Valve Disease (Dr. Glas)

At the conclusion of this lecture the participant will know how to grade the severity of aortic stenosis and regurgitation and be familiar with the TEE techniques to assess aortic valve disease.

TEE Evaluation of Tricuspid and Pulmonic Valve Disease (Dr. Shanewise)

At the conclusion of this lecture the participant will be familiar with common diseases of the tricuspid and pulmonic valves and know TEE techniques to assess tricuspid and pulmonic valve dysfunction.

TEE Evaluation of Prosthetic Valve Dysfunction (Dr. Goldman)

At the conclusion of this lecture the participant will be familiar with the common forms of prosthetic valve dysfunction and know how TEE can be used to assess prosthetic valve function.

Learning Objectives

Annual Meeting

Saturday, April 20, 2002

Refresher Courses

Educational Objective: At the conclusion of this course, the participant will be able to: 1) outline strategies to decrease blood transfusions in cardiac surgery patients; 2) list new and controversial issues in the practice of cardiac anesthesia

Antifibrinolytics in CPB and/or Circulatory Arrest (Dr. Smith)

At the conclusion of this course, the participant will be able to: 1) outline pathophysiology of circulatory arrest; 2) consider blood sparing/salvaging strategies in patients requiring CPB and/or circulatory arrest.

Alternative Medicine in Cardiac Disease? (Dr. Oz)

At the conclusion of this course, the participant will be able to: 1) list "Alternative Medicine" therapies suggested to manage ischemic heart disease; 2) assess potential impact of non-traditional treatments on quality of life in patients with ischemic heart disease.

Echocardiography and Unusual Causes of Valve Pathology (Dr. Connolly)

At the conclusion of this lecture the participant will be able to: 1) list rare disease entities associated with valve disorders; and 2) identify patients that may suffer valve disorders of unusual etiology.

Focus on TEE and the Mitral Valve (Dr. Koch)

At the conclusion of this course, the participant will be able to: 1) list absolute and relative indications for intraoperative TEE; 2) create paradigm for intraoperative assessment of the mitral valve.

Update on Thoracic Anesthesia: Tubes, Stents and Beyond (Dr. Brodsky)

At the conclusion of this course, the participant will be able to: 1) outline multiple strategies to provide one-lung ventilation; and 2) prescribe anesthetic management for endobronchial stent surgery.

Gender and Risk in Cardiac Surgery (Dr. Nussmeier)

At the conclusion of this course, the participant will be able to: 1) list epidemiological differences between men and women suffering ischemic heart disease; and 2) consider interventions to attenuate adverse events in women undergoing cardiac surgery.

Perioperative Management of Right Heart Failure (Dr. Hill)

At the conclusion of this course, the participant will be able to: 1) list pathophysiologic phenomenon accompanying right heart failure; and 2) create algorithm to manage acute right heart failure.

Blood Substitutes – Coming to Your Anesthesia Cart Soon (Dr. Wahr)

At the conclusion of this course, the participant will be able to: 1) outline potential benefits of blood substitutes; 2) list O₂-carrying products available or under investigation to replace packed-cell transfusion.

Sunday, April 21, 2002

The Failing Heart

Moderator: Stanton Shernan, MD

Educational Objective: At the conclusion of this session, the participant will have an understanding of the pathophysiology of acute and chronic congestive heart failure and an appreciation for relevant therapeutic pharmacological and surgical strategies.

Pathophysiology of Congestive Heart Failure (Dr. Hines)

At the conclusion of this lecture, the participant will have an understanding of the pathophysiology of acute and chronic heart failure.

Pharmacological Intervention for Congestive Heart Failure (Dr. Kalman)

At the conclusion of this lecture, the participant will have an understanding of pharmacological therapeutic strategies for acute and chronic heart failure.

Surgical Challenges for the Patient with Heart Failure (Dr. Oz)

At the conclusion of this lecture, the participant will have an understanding of current and newer surgical strategies for managing patients with heart failure.

Ischemic Mitral Insufficiency

Moderator: Solomon Aronson, MD

Educational Objective: At the conclusion of this session the learner will better understand the mechanism of IMR, and the prevalence and relevance of this entity in modern cardiac surgical practice. The learner will have learned the issues surrounding management options and what those options are at present and will be able to discuss the future management of this disease based on present and future technologies.

Mechanisms of Ischemic MR (Dr. Levine)

At the conclusion of this lecture the learner will better understand the mechanisms of ischemic MR.

Surgical Options for Ischemic MR (Dr. Duran)

At the conclusion of this lecture the learner will better understand what surgical options exist for the surgeon to treat MR based on the underlying mechanisms.

Anesthesia & Analgesia Session

Informed Consent and Good Clinical Practice: What Makes Clinical Research Ethical and Valid

Moderator: John Butterworth, IV, MD

Educational Objective: The objective of this session is to familiarize participants with the ethical principles and codes of practice that define the ethical performance of human research.

Alternative Approaches to Cardiac Surgery

Moderator: Peter Bailey, MD

Educational Objective: At the conclusion of this session the participant will have a better understanding of modern but less common surgical approaches to cardiac conditions, the rationale for their selection, and the implications for anesthetic management. In particular participants will learn of: 1) surgical innovations for congestive heart failure; 2) minimal access approaches to primary and reoperative CABG; 3) the principles and benefits of off-pump CABG; and 4) and the use of robotics in cardiac surgery.

Off-pump Coronary Artery Bypass (Dr. Subramanian)

At the conclusion of this session the participant will have a better understanding of: 1) the principles of off-pump CABG; 2) the potential benefits & outcomes of off-pump CABG; and 3) new techniques and technologies that are rapidly paving the way towards out-patient or ambulatory CABG.

Surgical Approaches to the Failing Heart (Dr. Oz)

At the conclusion of this session the participant will have a better understanding of: 1) novel cardiac surgical approaches to the failing heart; and 2) the use and future of artificial hearts.

Port-Access Surgery (Dr. Colvin)

At the conclusion of this session the participant will have a better understanding of: 1) the indications for port-access cardiac surgery; and 2) the management and outcome of patients selected for port-access surgery.

Robotics in Cardiac Surgery (Chitwood)

At the conclusion of this session the participant will have a better understanding of the advantages and implementation of robotics in cardiac surgery.

Learning Objectives

Thoracic Anesthesia

Moderator: Simon Body, MD

Educational Objective: At the conclusion of the session the participant will be able to:

1) rationally plan and implement alternative techniques for management of one lung ventilation in patients with planned and unplanned difficult intubation; 2) discuss the risks and indications for, and management of, patients undergoing combined cardiac and pulmonary surgery; 3) manage patients with impaired coagulation undergoing thoracic surgery who require axial analgesia; 4) understand the physiology and management of patients with severe pulmonary hypertension and right heart dysfunction presenting for thoracic surgery; and 5) describe the role of dysrhythmia prophylaxis and treatment during and after thoracic surgery.

One-lung Ventilation in a Patient with a Past History of Exceptionally Difficult Intubation. What Do I Do? (Dr. Arndt)

At the conclusion of the lecture the participant will be able to: 1) identify upper and lower airway anatomy that will specifically hinder the placement and management of usual hardware for one lung ventilation; 2) describe alternative techniques for management of one lung ventilation in these patients; and 3) delineate some of the "tricks of the trade" that are useful in these patients.

Combined Cardiac & Pulmonary Surgery-Role and Applications (Dr. Myles)

At the conclusion of the lecture the participant will be able to: 1) describe the indications and contra-indications for combined cardiac and pulmonary surgery; 2) understand the pathophysiologic limitations to combined cardiac and pulmonary surgery; and 3) delineate the risks and advantages / disadvantages of combined versus staged cardiac and pulmonary surgery.

Anticoagulated Patient with Recurrent Hemo-Pneumothorax for Thoracoscopic Drainage (Dr. Zanaboni)

At the conclusion of the lecture the participant will be able to: 1) identify the competing risks of axial blockade in patients undergoing thoracic surgery; 2) describe alternative anticoagulation regimens that may facilitate safe administration of analgesia; and 3) describe the advantages and disadvantages of alternative analgesia techniques in the anticoagulated thoracic surgical patient.

Severe Pulmonary and Right Heart Dysfunction – an Anesthesiologists Worst Nightmare (Dr. Heerd) (Dr. Heerd)

At the conclusion of the lecture the participant will be able to: 1) understand the physiology of severe pulmonary vascular disease and right heart dysfunction; 2) assess the severity and impact upon anesthesia of severe pulmonary vascular disease and right heart dysfunction; and 3) describe the anesthetic and pharmacologic management of these patients during pulmonary surgery.

Dysrhythmia Prophylaxis and Treatment During Thoracic Surgery (Dr. Slinger)

At the conclusion of the lecture the participant will be able to: 1) describe the indications for, and pharmacology of, dysrhythmia prophylaxis in at-risk thoracic surgery patients; 2) describe the management of patients with non-lethal and lethal dysrhythmias during thoracic surgery; and 3) understand the role of postoperative dysrhythmia prophylaxis and treatment, especially for atrial fibrillation.

Pediatrics

Moderator: Victor Baum, MD and Emad Mossad, MD

Educational Objective: The pediatric session will address topics that are both cutting edge and several of which should be of interest to anesthesiologists who care only for adult patients

New and Future Therapies for Pulmonary Hypertension: Are They Better than NO? (Dr. Horn)

Nitric oxide is often effective in treating perioperative pulmonary hypertension. Recent changes in marketing and pricing have spurred efforts to identify alternatives. Current and potential new alternatives to nitric oxide will be discussed and their clinical utility described.

Congenital Heart Disease and Pregnancy (Dr. Tsen)

More and more children with congenital heart disease are having successful surgery, and adults with uncorrected, corrected, and palliated congenital heart disease will be encountered on an increasing basis by anesthesiologists who do not routinely care for children with congenital heart disease. The implications of congenital heart disease on pregnancy and delivery, and specifically the implications for the anesthesiologist caring for the parturient will be discussed.

What's New in Pediatric Perfusion/Cardioplegia? (Dr. DiNardo)

Perfusion and cardioplegia practices continue to develop and to be modified. This talk will discuss new changes and modifications as they specifically apply to the neonate and young child.

Neuromonitoring in Pediatric Cardiac Surgery: Does it Make a Difference? (Dr. Mossad)

Several new neurophysiologic monitors have entered clinical practice in the past several years. This talk will discuss the reliability and clinical utility of these, particularly the BIS monitor and near infrared spectroscopy as they relate to pediatric cardiac surgery. The differences between monitors of structure and monitors of function will be discussed as will the potential effect on outcome and perioperative management.

Research

Moderator: Lee Fleisher, MD

Educational Objective: At the conclusion of this session, the attendee will: 1) better understand the current state of cardiovascular anesthesia research and opportunities for grant funding; 2) know more about recent advances in cardiovascular anesthesia research funded by the Society of Cardiovascular Anesthesiologists.

Research in Perioperative Cardiovascular Care: Current Funding Options (Dr. Fleisher)

The Role of Gravity in Shaping the Cardiovascular System (Dr. Berkowitz)
Effects of Volatile Anesthetics on Myocardial Ischemia-Reperfusion (Dr. Nader)

The Role of Volatile Anesthetics in the Inflammatory Response to Myocardial Ischemia-Reperfusion (Dr. Harter)

The Future of Cardiovascular Medicine

Moderators: Robert Savage, MD and Paul Barash, MD

Educational Objective: At the conclusion of this session the participant will better understand the new developments and trends in cardiovascular medicine (cardiology, vascular medicine, and cardiac surgery) and how the discipline of cardiovascular medicine needs to evolve to meet these growing challenges.

Panel: Dennis Mangano, PhD, MD; Carl Hug, MD; J. G. Reves, MD; Daniel M. Thys, MD

Perspectives of the Future of Cardiovascular Medicine

Erik Topol, MD; Carlos Duran, MD; Michael F. Roizen, MD

Monday, April 22, 2002

Monograph Session: Perioperative Organ Protection

Moderator: Mark F. Newman, MD

Educational Objective: Define the incidence, significance, and etiology of major organ system dysfunction occurring after cardiac and major vascular surgery; and describe clinical strategies to reduce dysfunction, mortality, and improve quality of life.

Systemic Inflammatory Response Syndrome and Organ Dysfunction: Opportunities for Treatment (Dr. Bennett-Guerrero)

At the conclusion of this lecture the participant will be able to: 1) identify the etiology of systemic inflammatory response syndrome (SIRS) in cardiac surgery; 2) establish the relationship between SIRS and organ dysfunction; and 3) discuss potential interventions to reduce the impact of the incidence or the impact of SIRS occurring in cardiac surgery.

Learning Objectives

Myocardial Protection Strategies in Cardiac Surgery: Present and Future (Dr. Verrier)

At the conclusion of this lecture the participant will be able to: 1) define the incidence and significance of perioperative myocardial injury and dysfunction; 2) describe current clinical and pharmacologic strategies to reduce myocardial injury; and 3) discuss future strategies, including ongoing trials, for myocardial protection during cardiac and vascular surgery.

Perioperative Neuroprotection in Cardiac Surgery: Current Strategies and Future Directions (Dr. Grocott)

At the conclusion of this lecture the participant will be able to: 1) define the incidence, significance and etiology of neurologic and neurocognitive dysfunction after cardiac surgery; 2) discuss current clinical strategies for the reduction of neurologic and neurocognitive injury; and 3) discuss potential strategies under investigation for perioperative neuroprotection.

Perioperative Renal Dysfunction: Implications and Strategies for Protection (Dr. Stafford-Smith)

At the conclusion of this lecture the participant will be able to: 1) define the incidence, significance, and mechanisms of perioperative renal dysfunction; 2) discuss how changes in renal function may define or be associated with other perioperative organ dysfunction; and 3) describe current and future strategies for renal protection in cardiac surgery.

Advances and Setbacks in Transfusion Therapy

Moderator: Linda Shore-Lesserson, MD

Educational Objective: At the conclusion of the session, the participant will have an understanding of hematologic issues in cardiac surgery. This will include the hemorrhagic complications seen with platelet-inhibiting drugs and the risks of transfusion of platelet concentrates as a result of increased bleeding. Recent advances in the management of heparin-induced thrombocytopenia and of anti-coagulation for off-pump surgical techniques will also be discussed.

Changes in Cardiac Surgery as a Result of Antiplatelet Therapy (Dr. Lemmer)

At the conclusion of the session, the participant will have an understanding of the different types of anti-platelet pharmaceuticals that are prescribed for cardiovascular patients. The way in which the practice of cardiac surgery has been altered since the introduction of these drugs will be covered.

Avoidance of Transfusion. Is It a Rational Approach? (Dr. Spiess)

At the conclusion of the session, the participant will appreciate the risks of transfusion of all blood products, with specific attention to the risks of platelet transfusion. The influence of transfusion on outcome will be discussed.

Heparin-induced Thrombocytopenia: Increasing Incidence or Over-diagnosis? (Dr. Dietrich)

At the conclusion of the session, the participant will understand the different types of heparin-induced thrombocytopenia (HIT) and the different effects they have on management of patients for cardiac surgery. Diagnostic tests for HIT and alternatives to heparin will also be covered.

Transfusion Implications of Off-Pump Cardiac Surgery (Dr. Fitch)

At the conclusion of the session, the participant will have an understanding of different strategies of management of anticoagulation for off-pump cardiac surgery. The risk/benefit of off-pump surgery and the potential for increased coagulation in these patients is discussed.

ACLS

Moderator: Nanette Schwann, MD

Educational Objective: At the conclusion of this session the participant will have an understanding of the hemodynamic and antiarrhythmic management of patients that require resuscitation during the perioperative period, in the context of the new ACLS guidelines issued by the American Heart Association International Evidence Evaluation Conference in August, 2000.

Perioperative Resuscitation: Interpreting New ACLS Guidelines (Dr. Berkowitz)

At the conclusion of this lecture, the participant will be able to: 1) outline policy changes in the formulation of ACLS guidelines; 2) be cognizant of *semina*/non pharmacological changes in the ACLS protocol for both in and out of hospital arrest; 3) understand ACLS 2000 recommendations for the pharmacological management of cardiac arrest and circulatory shock; and 4) understand the pharmacology of and indications for vasopressin.

New Therapies for Life Threatening Perioperative Arrhythmias (Dr. Balser)

1) To review the etiologies and characteristic features of the most common ventricular arrhythmias during surgery; 2) to discuss the latest new information on the molecular pharmacology of ventricular arrhythmias; and 3) to review the evidence for selection of particular antiarrhythmic therapies during ventricular arrhythmias in the context of the recently updated ACLS guidelines.

Tuesday, April 23, 2002

Implementing New Surgical Therapeutics: What Should be the "Litmus Test" for Validation

Moderator: Charles Hogue, MD

Educational Objective: At the conclusion of this session the participant should 1) have an understanding of the impetus and means of introducing new surgical therapeutic options as illustrated by lung volume reduction surgery; 2) have a better understanding of governmental regulatory processes involved with the introduction of new surgical procedures, specifically lung volume reduction surgery; and 3) understand the new regulatory assurance of protecting human subjects during development of new surgical procedures as administered by the new Office of Human Research Protection of the Department of Health and Human Services.

Lung Volume Reduction Surgery (Dr. Criner)

At the conclusion of this lecture the learner will be able to describe the factors that precipitated the development of the National Emphysema Treatment Trial, understand the major objectives of the NETT, and will be aware of the current status of the NETT.

Beating Heart and Minimally Invasive Cardiac Surgery (Dr. Cooper)

At the conclusion of this lecture the learner will recognize alternative means of introducing new surgical procedures in a timely and responsible fashion without stifling innovation.

Validating Novel Therapeutics While Protecting Human Subjects (Dr. Koski)

At the conclusion of this lecture the learner will: 1) understand the role of the new Office of Human Research Protection in overseeing Human research in the United States and 2) understand the role of this agency to ensure the protection of humans during the development and introduction of new surgical procedures.

Evaluating the Risks and Benefits of New Surgical Procedures: The Role of Medicare (Mr. Sheingold)

At the conclusion of this talk, the participant will better understand: 1) the medical evidence required in assessing the risks and benefits of new procedures for a reimbursement decision; 2) the role Medicare and other health plans can play in clinical research that provides valid medical evidence on risks and benefits of these procedures.

Learning Objectives

Economic Dragons vs. Our Army: Challenges for the Early 21st Century

Moderator: Scott T. Reeves, MD, MBA

Educational Objectives: Following the conclusion of this session, the participants will understand how the Medical policy process works and how they can positively influence it. The participant will learn how reimbursement problems come to the ASA's attention and the committee and staff processes for addressing such issues. The ASA's involvement in the TEE Medicare policy issue will be utilized as a case example. The participant will obtain an understanding of the workforce issues facing our specialty.

The Local Medical Review Process: Where it Came From, Where it is, Where it is Going (Dr. Rosenberg)

Following the conclusion of this session, the participants will understand how the Medical policy process works and how they can positively influence it.

Dragon-Slaying 101: ASA's Role in the TEE Issue! (Ms. Bierstein)

The participant will learn how reimbursement problems come to the ASA's attention and the committee and staff processes for addressing such issues. The ASA's involvement in the TEE Medicare policy issue will be utilized as a case example.

Workforce Estimates (Dr. Reeves)

The participant will obtain an understanding of the workforce issues facing our specialty.

Vasodilated Shock after Cardiac Surgery

Moderator: Manuel Fontes, MD and Robert N. Sladen, MD

Educational Objective: At the conclusion of this session, the participant will have an understanding of myocardial and circulatory pathophysiologic effects of sepsis encountered in the perioperative setting. Three lectures will be presented: (1) myocardial function and dysfunction in sepsis and vasodilated shock; (2) clinical utility of transesophageal echocardiography in assessing postoperative myocardial function; and (3) vasodilated shock: The role of Vasopressin Therapy. While maintaining an overall focus on Vasodilated Shock After Cardiac Surgery, each lecture will be quite distinct and will also provide the participants with the most up-to-date and clinically relevant information.

Myocardial Function, and Dysfunction in Sepsis and Vasodilated Shock (Dr. Deutschmann)

At the conclusion of this lecture, the participant will gain significant knowledge of myocardial dysfunction, both microscopic and macroscopic, that occurs from direct and indirect effects of sepsis and vasodilator shock.

Clinical Utility of Transesophageal Echocardiography in Evaluating Postoperative Cardiac Function (Dr. Porembka)

At the conclusion of this lecture, the participant should have greater understanding of the utility of transesophageal echocardiography in diagnosing hemodynamic perturbations occurring postoperatively that are otherwise difficult to detect by conventional approaches. Additionally, the participant will recognize the important role played by anesthesiologist echocardiographers outside the operating room.

Vasodilated Shock: The Role of Vasopressin (Dr. Landry)

At the conclusion of this lecture, the participant will gain significant information regarding novel approaches to pharmacologic agents used in the setting of vasodilated shock. Specifically, the participant will learn about the role of intravenous vasopressin as a vasoactive agent for the management of intractable hypotension.

Ischemia-Reperfusion Injury

Moderator: Peter van der Starre, MD

Educational Objective: Goals of this session will include familiarizing the audience with 1) the definition of ischemia-reperfusion injury; 2) the pathophysiological mechanisms mediating ischemia-reperfusion injury; 3) the clinical scenarios during which ischemia-reperfusion may occur; 4) the common clinical manifestations of ischemia-reperfusion injury; and 5) therapeutic strategies for the prevention of ischemia-reperfusion injury.

Pathophysiology of Ischemia-Reperfusion Injury (Dr. Verrier)

Goals of this lecture will include familiarizing the audience with 1) the definition of ischemia-reperfusion injury; 2) the pathophysiological mechanisms mediating ischemia-reperfusion injury; and 3) the clinical implications of ischemia-reperfusion injury.

Therapeutic Strategies for Ischemia-Reperfusion Injury (Dr. Collard)

Goals of this lecture will include familiarizing the audience with 1) the clinical scenarios during which ischemia-reperfusion may occur; 2) the common clinical manifestations of ischemia-reperfusion injury; and 3) therapeutic strategies for the prevention of ischemia-reperfusion injury.

Problem Based Learning (PBL) Discussion

Sunday, April 21, 2002

- Myocardial Ischemia and Infarction (Davis/Spies)**
At the conclusion of the PBL session, the participant will be able to: 1) identify patients with CAD and high cardiac risk; 2) know the consensus redefinition of myocardial infarction; 3) know the relevance of new and conventional diagnostic criteria of myocardial ischemia and their limitations; 4) know new approaches to diagnosis and management of unstable angina and non-ST-segment elevation myocardial infarction; 5) know emergency options to treat myocardial ischemia and infarction; 6) develop a comprehensive care plan to manage myocardial ischemia or infarction by interventional cardiology vs cardiac surgery; 7) know new strategies how to decrease perioperative myocardial ischemia and infarction.
- Control of Hemostasis (Levy/Dietrich)**
Despite systemic heparinization the hemostatic system is activated during CPB. This session will focus on the action of heparin, control of heparinization, as well as alternatives or supplements to heparin. Drugs to influence hemostasis will also be discussed.
- Perioperative Decisions in the Clinical and Surgical Management of Heart Failure (Savage/Kalman)**
- Lung Isolation: Endobronchial Tubes, Blockers and Difficult Airways (Slinger/Katz)**
To acquaint practitioners with the recent advantages in the methods and equipment for providing lung isolation for Thoracic and Cardiac Anesthesia. To discuss the approach to management of one-lung anesthesia in patients with difficult airways.
- New Methods of Mechanical Ventilation (Fontes/Ramsay)**
At the conclusion of this session the participant will gain information on some of the newer modes of mechanical ventilation that aim at providing respiratory support in a more physiologic process. These modes use sophisticated computer algorithms that allow the patient to interact with the ventilator such that improved synchrony, greater comfort, less pulmonary injury, and faster weaning times are achieved.

Learning Objectives

6. **Monitoring: CABG Surgery with non-invasive Cardiac Output Monitoring Techniques** (Silvay/Vender)

At the conclusion of this session the participant will be able to: 1) identify the various technologies available for non-invasive cardiac function monitoring in cardiovascular surgery; 2) discuss the benefits and limitations of each device relative to TEE and PAC monitoring; and 3) discuss clinical experiences with the non invasive technologies among the participants.

7. **Cardioprotection During off Pump Cardiac Surgery** (Collard/Toller)

Goals of this PBLD will include familiarizing the participants with 1) the advantages and disadvantages of off-pump cardiac surgery 2) pathophysiological mechanisms mediating myocardial injury during off-pump cardiac surgery; and 3) therapeutic strategies for myocardial protection during off-pump cardiac surgery

8. **Benefits and Risks of Endovascular Repair of the Thoracic/Abdominal Aorta** (Murray/Marin)

To better understand current indications for, and complications of, endovascular repair of aortic aneurysmal disease, and to review anesthetic management of patients undergoing endovascular repair.

Monday, April 22, 2002

1. **Spinal Cord Injury and Thoracic Aortic Surgery** (Drenger/O'Connor)

To examine the mechanism of spinal cord injury during thoracic aortic surgery and to critically review the available methods of spinal cord protection, including regional and systemic hypothermia, pharmacologic agents, and CSF drainage.

2. **Prevention of Atrial Fibrillation after CABG** (Hogue/Chien)

At the conclusion of this session the participant will be able to evaluate the risk factors for atrial fibrillation after CABG and will understand the current pharmacologic methods available for prophylaxis and treatment.

3. **Pediatric Cardiac Anesthesia** (Moore/Bent)

The learning objectives for this PBL are to: 1) provide a proper preoperative evaluation for the child with congenital heart disease, including evaluation of abnormal laboratory findings; 2) develop an anesthetic plan based on underlying congenital heart defects to maintain optimal hemodynamic conditions; 3) manage a child's intraoperative anesthetic care, including induction of anesthesia in the presence and absence of an intravenous line; 4) manage unexpected difficulties that might be encountered in patients with congenital heart disease, including coagulopathy and sudden cyanotic episodes; and 5) development of plans for postoperative care of the patient with congenital heart disease.

4. **Use of TEE in Minimally Invasive Surgery** (Shanewise/London)

Following this session the participant will understand how TEE can facilitate the management of patients undergoing minimally invasive cardiac surgery. They will learn which aspects of a TEE examination are most relevant to these procedures.

5. **Management of Cardiac Surgery in a Patient with Multiple Platelet Inhibitory Drugs** (Shore-Lesserson/Lemmer)

To gain an understanding of the mechanisms of action of currently used platelet inhibitors, the impact of anti-platelet drug treatment on bleeding and transfusion requirements in patients undergoing open heart surgery, and management strategies for such patients.

6. **Heparin-induced Thrombocytopenia in Cardiac Anesthesia** (Koster/Nuttall)

The learning objectives will be: 1) pathophysiology of HIT; 2) diagnostic strategies; 3) alternative anticoagulation during CPB; and 4) future aspects.

7. **Congenital Heart Disease Case(s)** (Davies/Daves)

At the conclusion of the problem based learning discussion, the discussant/learner will be able to: 1) describe the unique physiology of the patient who has had a Fontan procedure; 2) conduct a preoperative evaluation of the patient who has undergone a Fontan; and 3) devise an anesthetic plan for the patient with a Fontan scheduled for noncardiac surgery.

8. **Coagulation Monitoring: Update 2002** (Ralley/Fitch)

Participants will learn about the current available technologies for coagulation monitoring equipment. Participants will learn the principles of operation of the machines. They will also learn what the machines measure, as well as the clinical utility of the various pieces of equipment.

Tuesday, April 23, 2002

1. **Off Pump Cardiac Surgery: Practice Issues-Update** (Cheng/Esposito)

The participants will learn the practical aspects in the perioperative management of OPCAB surgery (patient selection, intraoperative monitoring, surgical and anesthetic techniques, postoperative analgesia) and will gain knowledge in the short-term and long-term outcomes in morbidity, mortality and resource utilization in OPCAB surgery.

2. **Ethical Issues in Heart and Lung Transplantation** (Wolman/Maddi)

At the conclusion of this problem based learning discussion, the discussant/learner will have a clearer understanding of: 1) the concept of brain death; 2) ethical issues in prioritizing patients for transplantation; 3) possible conflicts regarding the use of scarce resources; 4) ethical dilemmas in informed consent; 5) possible courses of action when patients refuse lifesaving therapies; 6) patients' rights in cases of high risk medical and surgical therapies; and 7) ethical issues in conflict resolution.

3. **Neurologic Monitoring during Cardiac Surgery** (Murkin/Newman)

At the conclusion of this session the participant will have an understanding of the mechanisms of neurologic injury during and after descending and arch aortic surgery, and will understand the pharmacologic and non-pharmacologic methods of cerebral protection. Deep hypothermic circulatory arrest, retrograde cerebral perfusion, and selective antegrade perfusion will be compared.

4. **Transfusion Practices** (Spiess/Vuytsteke)

At the conclusion of this session the participant will have an understanding of current and past transfusion therapy and new methods of hemostasis control in cardiac surgical patients.

5. **Perioperative Renal Protection** (Sladen/Rothenberg)

Learning Objectives: 1) review pertinent renal physiology as it applies to perioperative care; 2) develop an algorithmic approach to assessing and managing perioperative Oliguria; 3) assess pharmacologic/renal replacement therapies in managing acute renal failure.

6. **Catch the Bluetooth and Wi-Fi Wireless Technology Wave!** (Ereth/Reich)

Participants will gain a practical understanding of this "star trek communicator" technology. They will be able to define it's advantages, limitations, and far reaching applications in the ICU and Operating Theatres, and where no one has gone before.

7. **Case Discussions**

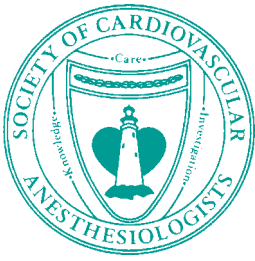
Case 1: Malignant Hyperthermia Compartment Syndrome (Watson)

Participants will 1) understand presentation, diagnosis and treatment of malignant hyperthermia on CPB versus during anesthesia; 2) discuss differential diagnosis of hypermetabolism and high fever in open-heart surgery.

Case 2: Anaphylaxis with Aprotinin (Demeyere)

At the conclusion of this PBLD the discussant/learner will: 1) gain knowledge in the pathophysiological mechanisms mediating anaphylactic reactions after aprotinin exposure/reexposure; 2) learn to assess patients' individual risks for adverse reactions; 3) know the relevance of diagnostic criteria and their limitations; and 4) learn to develop a comprehensive plan for prophylactic treatment and emergency treatment to manage anaphylactic reactions during cardiac surgery.

8. **Right Ventricular Failure** (Hines/Brown)



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