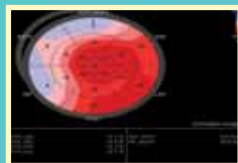
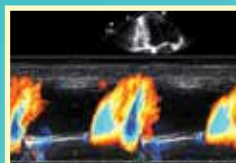


17th Diastology and Valve Summit

February 27 – March 2, 2014
Eden Roc Hotel | Miami Beach, FL

**Reduced
Fees
for ASE
Members!**



Register at ccfcme.org/echo

Join us at the 17th Diastology and Valve Summit

The *17th Diastology and Valve Summit* will provide a unique opportunity to interact with key opinion leaders and receive updates in heart valve disease, new and emerging imaging technologies, diastology, and multimodality imaging. Designed as an interactive course, you will be fully engaged with faculty during workshops including question and answer sessions.

The four key topic areas of this Summit highlight important rapid fire case presentations, current controversies, and interactive workshops. Heart Valve Disease and Diastology will incorporate “Read with the Experts” sessions through case presentations and a basic sonographer tutorial. New Imaging Technologies will include 3-D echo, strain and TAVR cases as well as a basic sonographer tutorial. Multimodality Imaging will have a “Read with the Experts” session on cardiac CT and MR in various diseases.

WHO SHOULD ATTEND?

Noninvasive and invasive cardiologists, cardiac surgeons, anesthesiologists, sonographers, nurses, fellows, cardiology nurse practitioners, and physician assistants will benefit from attending this Summit.

KEY TOPICS

Heart Valve Disease

- State-of-the-Art Imaging in Valvular Heart Disease
- Quantification of Valvular Regurgitation
- Transaortic Valve Replacement
- Aorta Surgery

New Imaging Technologies

- Real Time 3-D TTE and TEE
- Muscle Mechanics
- Interventional Echo
- Contrast Echo

Diastology

- Basic and Advanced Diastology
- Tissue Doppler Imaging and Strain
- Pericardial Diseases
- Debate on Discrepancies in Diastology Exam

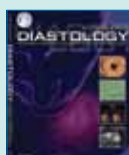
Multimodality Imaging

- How to Become an Expert in Multimodality Imaging
- Role in Viability
- Role in Cardiomyopathies
- Debate on Assessing Coronary Artery Disease

NEW THIS YEAR

- Rapid Fire Cases
- TAVR Workshop
- Sonographer Tutorials
- Read with the Experts

Order your textbook now!



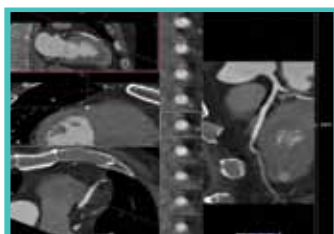
Diastology: Clinical Approach to Diastolic Heart Failure

and



Clinical Echocardiography Review

Participants can purchase these books at a discounted price. Please check the appropriate box on the registration form. Books will be available at the Summit.



SUMMIT DIRECTOR

Allan L. Klein, MD, FRCP(C), FACC, FAHA, FASE

Director, Cardiovascular Imaging Research
Director, Pericardial Center
Department of Cardiovascular Medicine
Heart and Vascular Institute
Cleveland Clinic



SUMMIT CO DIRECTORS

Craig R. Asher, MD, FACC

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Deborah A. Agler, RCT, RDCS, FASE

Coordinator of Education and Training for
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Department of Cardiovascular Medicine
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GUEST FACULTY

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Consultant, Cardiovascular Diseases
Mayo Clinic Scottsdale

Christopher M. Kramer, MD, FACC

Director of Cardiovascular Imaging Center
University of Virginia Health System

Rebecca T. Hahn, MD

Director of Invasive and Valvular
Echocardiography
Columbia University Medical Center
New York Presbyterian Hospital

Michael H. Picard, MD, FACC, FASE

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Cleveland Clinic Florida

Jill A. Odabashian, RDCS, FASE

Cardiovascular Imaging Research/
Clinical Sonographer
C5 Research Imaging Core Lab

Michael Shen, MD, MS, FACC, FASNC

Head
Section of Cardiac Imaging
Cleveland Clinic Florida

William J. Stewart, MD, FACC, FASE

Director
Cardiovascular Curriculum of Cleveland Clinic
Lerner College of Medicine

Lars G. Svensson, MD, PhD

Director, Aortic Center
Director, Marfan's and Connective
Tissue Disorder

L. Leonardo Rodriguez, MD, FACC

Program Director, Advanced
Imaging Fellowship
Staff Cardiologist

AGENDA

Thursday, February 27 – Heart Valve Disease

6:15 am Registration/Continental Breakfast/Visit Exhibits

Session 1: Mitral and Tricuspid Valve Disease

Moderators: *Rebecca T. Hahn, MD*, and *Allan L. Klein, MD*

7:00 am Keynote Address

State-of-the-Art of Imaging in Valvular Heart Disease 2014: Strengths and Weaknesses
Rebecca T. Hahn, MD

7:20 am Mitral Valve Regurgitation – How Do We Quantify: Medicine or Surgery?
William J. Stewart, MD

7:40 am Ischemic/Functional Mitral Regurgitation: Mechanism, Treatment and New Trials
Michael H. Picard, MD

8:00 am Mitral and Tricuspid Valve Repair: How Are the Results?
Lars G. Svensson, MD, PhD

Session 2: Aortic Valve Disease and Aorta Surgeries

Moderators: *L. Leonardo Rodriguez, MD, FACC*, and *Lars G. Svensson, MD, PhD*

8:25 am Aortic Stenosis: Low Flow/Low Gradient Aortic Stenosis with Normal EF or Decreased EF? What Does This Mean?
Gian M. Novaro, MD

8:45 am Aortic Valve Regurgitation: How Do We Quantify? Medicine or Surgery?
L. Leonardo Rodriguez, MD, FACC

9:05 am Advances in Aorta Surgery: What Do the Guidelines Say?
Lars G. Svensson, MD, PhD

9:25 am Panel and Discussion

9:35 am Refreshment Break/Visit Exhibits

Session 3: Rapid Fire Cases in Valve Disease

Moderator: *Gian M. Novaro, MD*

Panel: *Michael H. Picard, MD*;

L. Leonardo Rodriguez, MD, FACC; *William J. Stewart, MD*;

Lars G. Svensson, MD; and *James D. Thomas, MD*

10:00 am Asymptomatic Severe AS
Craig R. Asher, MD

10:15 am Asymptomatic Severe MR
Rebecca T. Hahn, MD

10:30 am Bicuspid Aortic Valve and Dilated Aorta
Richard A. Grimm, DO

10:45 am TR with RV Dysfunction
Allan L. Klein, MD

Session 4: Controversies in Structural Valve Disease – Percutaneous Aortic Valve Surgery will be Routinely Performed in Intermediate Risk Aortic Stenosis Patients

Moderators: *William J. Stewart, MD*, and *Michael H. Picard, MD*

11:00 am Debate: Pro
Rebecca T. Hahn, MD

11:20 am Debate: Con
Lars G. Svensson, MD, PhD

11:40 am Rebuttals

12:00 pm Refreshment Break/Visit Exhibits

12:10 – 1:40 pm

Breakout Workshops (concurrent) – Choose A or B

A) TAVR Workshop

Moderator: *Allan L. Klein, MD*

Patient Selection -- *James D. Thomas, MD*

Determining Access – *Richard A. Grimm, DO*

How You Do TAVR Implant – *Lars G. Svensson, MD, PhD*

Role of Imaging – *Rebecca T. Hahn, MD*

Outcomes – *L. Leonardo Rodriguez, MD, FACC*

Future – *Lars G. Svensson, MD, PhD*

B) Heart Valve Disease Cases “Read with the Experts”

Moderator: *William J. Stewart, MD*

Mitral Regurgitation – *William J. Stewart, MD*

Prosthetic Valve Dysfunction – *Jill A. Odabashian, RDCS*

Aortic Regurgitation – *Deborah A. Agler, RDCS*

Low Flow Low Gradient Severe Aortic Stenosis – *Gian M. Novaro, MD*

Bicuspid Aortic Valve and Aortopathy – *Michael H. Picard, MD*

Tricuspid Regurgitation – *Christopher P. Appleton, MD*

1:40 pm Adjourn



Friday, February 28 – New Imaging Technologies

6:15 am Registration/Continental Breakfast/Visit Exhibits

Session 1: 3-D Echo and Real Time TEE

Moderators: *Michael H. Picard, MD*, and *James D. Thomas, MD*

7:00 am Keynote Address

State-of-the-Art Assessment of LV Function with Advanced Imaging Technologies in 2014: Strengths and Weaknesses
Michael H. Picard, MD

7:30 am 3-D and 4-D Echo: Clinical Applications? Has it Arrived or Still Waiting?
James D. Thomas, MD

7:50 am Real-Time Transesophageal 3-D Echocardiography: What Does It Add for the Clinician?
Rebecca T. Hahn, MD

8:10 am Performing a 3-D Echo Examination: A Practical Approach for Sonographers
Deborah A. Agler, RDCS

Session 2: Muscle Mechanics and Contrast Echo

Moderators: *Christopher P. Appleton, MD*, and *W.H. Wilson Tang, MD*

8:30 am 2-D Strain for Cardiac Function: Clinical Use? Role in Cardio-Oncology?
James D. Thomas, MD

8:50 am Cardiac Mechanics for the Sonographer: Tips and Techniques
Deborah A. Agler, RDCS

9:10 am Contrast Echo: Clinical Applications and Pitfalls
Allan L. Klein, MD

9:30 am Panel and Discussion

9:35 am Refreshment Break/Visit Exhibits

(continued next page)

Friday, February 28 – New Imaging Technologies (continued)

Session 3: Rapid Fire Cases in New Imaging Technology

Moderator: James D. Thomas, MD

Panel: Christopher P. Appleton, MD; Michael H. Picard, MD; L. Leonardo Rodriguez, MD, FACC; William J. Stewart, MD; and Lars G. Svensson, MD

- 10:00 am Cardio-Oncology
Michael H. Picard, MD
- 10:15 am 3-D of the Mitral and Aortic Valve in the OR
Rebecca T. Hahn, MD
- 10:30 am Imaging of LVAD's
Richard A. Grimm, DO
- 10:45 am Contrast Echo at the LV Apex
Allan L. Klein, MD

Session 4: Controversies in Imaging Technologies

Strain Imaging is Useful in Making Clinical Decisions

Moderators: Rebecca T. Hahn, MD, and L. Leonardo Rodriguez, MD, FACC

- 11:00 am Debate: Pro
Michael H. Picard, MD
- 11:20 am Debate: Con
James D. Thomas, MD
- 11:40 pm Rebuttals
- 12:00 pm Break

12:10 – 1:40 pm

Breakout Workshops (concurrent) – Choose C or D

Interpreting and Evaluating Exams in a Case-Based Format

C) New Imaging Technologies: “Read with the Experts”

Moderator: Richard A. Grimm, DO

Role of Echo in CRT – Richard A. Grimm, DO

Evaluation of the Right Heart – Christopher P. Appleton, MD

Point of Care Echo – Michael H. Picard, MD

Contrast Echo – Allan L. Klein, MD

Paravalvular AR in TAVR – Rebecca T. Hahn, MD

CMR in HCM – Christopher M. Kramer, MD

D) New Echo Technologies 101

Moderators: Deborah A. Agler, RDCS, and James D. Thomas, MD

Incorporating 2-D Strain and 3-D Echo Into Your Laboratory
Deborah A. Agler, RDCS, and James D. Thomas, MD

Echo in LVAD

Deborah A. Agler, RDCS, and W.H. Wilson Tang, MD

Echo in Aortic Stenosis for TAVR

Jill A. Odabashian, RDCS, and Deborah H. Kwon, MD

Incorporating Contrast Echo Into Your Laboratory

Jill A. Odabashian, RDCS, and Craig R. Asher, MD

1:40 pm Adjourn

Saturday, March 1 – Diastology

6:15 am Registration/Continental Breakfast/Visit Exhibits

Session 1: Epidemiology, Pathophysiology, and Assessment of Diastology

Moderators: Christopher P. Appleton, MD, and Allan L. Klein, MD

- 7:00 am **Keynote Address**
State-of-the-Art of Diastology 2014:
ASE Guidelines, Strengths and Weaknesses
Christopher P. Appleton, MD
- 7:20 am Epidemiology and Natural History of Diastolic Dysfunction
Allan L. Klein, MD
- 7:40 am Pathophysiology of Diastolic Dysfunction
James D. Thomas, MD
- 8:00 am Basic Diastology: Which Parameters Do We Use and Report in Clinical Practice?
Christopher P. Appleton, MD

Session 2: Practical Techniques, Filling Pressures, and New Tools

Moderators: Jill A. Odabashian, RDCS, and Michael H. Picard, MD

- 8:25 am Sonographer Session: How to Perform a First Rate Diastology Exam
Jill A. Odabashian, RDCS
- 8:45 am Advanced Diastology: Estimation of LV Filling Pressures; What Additional Parameters Do We Need? Pitfalls
James D. Thomas, MD
- 9:05 am Panel and Discussion
- 9:25 am Refreshment Break/Visit Exhibits

Session 3: Rapid Fire Cases in Diastolic Dysfunction

Moderators: Gian M. Novaro, MD, and W.H. Wilson Tang, MD

Panel: Christopher P. Appleton, MD; Allan L. Klein, MD; and Christopher M. Kramer, MD; Michael H. Picard, MD; and James D. Thomas, MD

- 10:00 am Rule Out Constriction
Deborah H. Kwon, MD
- 10:15 am Is it Amyloid?
Craig R. Asher, MD
- 10:30 am Is My A and V Synchronized?
Richard A. Grimm, DO
- 10:45 am Is This Athlete's Heart or HCM?
Gian M. Novaro, MD

Session 4: Diastology Guidelines: Controversies

Diastology Evaluation Has Too Many Discrepancies to be Clinically Useful

Moderators: Deborah A. Agler, RDCS, and James D. Thomas, MD

- 11:00 am Debate: Pro
Richard A. Grimm, DO
- 11:20 am Debate: Con
Christopher P. Appleton, MD
- 11:40 am Rebuttals
- 12:00 pm Break

12:10 – 1:40 pm

Breakout Workshops (concurrent) – Choose E or F

E) Diastolic Function Exam Case-“Read-with-the-Experts”

Moderator: Craig R. Asher, MD

Hypertrophic Cardiomyopathy – Craig R. Asher, MD

Hypertension – Christopher M. Kramer, MD

Constriction vs Restriction – Allan L. Klein MD

Diastology Discrepancies – Deborah H. Kwon, MD

Diastology Stress Test – Richard A. Grimm, DO

F) Diastology 101 Tutorial

Interpreting Exams in a Case-Based Format

Moderator: Jill A. Odabashian, RDCS

How to Measure LA Size?

Jill A. Odabashian, RDCS, and Christopher P. Appleton, MD

Infiltrative and Restrictive Cardiomyopathy

Deborah A. Agler, RDCS, and Gian M. Novaro, MD

Is it Constriction?

Jill A. Odabashian, RDCS, and W.H. Wilson Tang, MD

Diastology Pitfalls: Things to Remember for Sonographers

Deborah A. Agler, RDCS, and Richard A. Grimm, DO

1:40 pm Adjourn

Sunday, March 2 – Multimodality Imaging

6:15 am Registration/Continental Breakfast/Visit Exhibits

Session 1: Multimodality Imaging Basics

Moderators: *Christopher M. Kramer, MD, and Michael Shen, MD*

- 7:00 am **Keynote Address**
State-of-the-Art of Multimodality Imaging in 2014: Strengths and Weaknesses: What is New?
Christopher M. Kramer, MD
- 7:20 am Cardiac MR: The Basics of How it is Done
Deborah H. Kwon, MD
- 7:40 am Cardiac CT: The Basics of How it is Done, Radiation Risks?
Michael Shen, MD

Session 2: Imaging of CAD, CHD, Viability Assessment

Moderators: *Richard A. Grimm, DO, and Deborah H. Kwon, MD*

- 8:00 am Is Cardiac CTA Useful in the Triple Rule Out? What do the Trials Say?
Deborah H. Kwon, MD
- 8:20 am Does Cardiac MR Have an Important Role in Congenital Heart Disease?
Christopher M. Kramer, MD
- 8:40 am What Is the Best Imaging Tool for Viability: Echo, MR, PET?
Richard A. Grimm, DO

Session 3: Imaging in Cardiomyopathies and Congenital Heart Disease

Moderator: *Christopher M. Kramer, MD, and Allan L. Klein, MD*

- 9:05 am Is Cardiac MRI a Noninvasive Biopsy of the Heart? What is the Role in Cardiomyopathies?
Christopher M. Kramer, MD
- 9:25 am CT Assessment and Management of Coronary Anomalies
Michael Shen, MD
- 9:45 am Panel and Discussion
- 10:00 am Refreshment Break/Visit Exhibits

Session 4: Controversies in Multimodality Imaging CMR Is Superior to CT in the Assessment of Coronary Artery Disease

Moderators: *Richard A. Grimm, DO, and James D. Thomas, MD*

- 10:20 am Debate: Pro
Christopher M. Kramer, MD
- 10:40 am Debate: Con
Deborah H. Kwon, MD
- 11:00 am Rebuttals

Rapid Fire Cases in Multimodality Imaging

Moderator: *Deborah H. Kwon, MD*

Panel: *Christopher M. Kramer, MD; Allan L. Klein, MD; L. Leonardo Rodriguez, MD; and Michael Shen, MD*

- 11:20 am Pericardial Inflammation
Allan L. Klein, MD
- 11:35 am Myocardial Fibrosis
Deborah H. Kwon, MD
- 11:50 am Congenital Shunts
Michael Shen, MD
- 12:05 pm Vulnerable Plaque
Christopher M. Kramer, MD
- 12:20 pm Aortic Dissection
Richard A. Grimm, DO
- 12:40 pm Adjourn

Two Ways to Register

ONLINE ccfcme.org/echo

Cleveland Clinic and Cleveland Clinic Health System employee fees and registration are available online only.



BY MAIL

The Cleveland Clinic Educational Foundation
PO Box 931653, Cleveland, OH 44193-1082

Registration form can be downloaded from the course website.

Fee Includes: Online access to presentations in PDF format, meeting materials, continental breakfasts, refreshment breaks, and workshops.

	On or Before January 6, 2014	After January 6, 2014
☐ ASE Physician	\$700	\$800
☐ Physician	\$875	\$1,000
☐ CCF Alumnus	\$787	\$900
☐ ASE Resident*/Fellow*/Nurse/Allied Health Professional	\$400	\$500
☐ Resident*/Fellow*/Nurse/Allied Health Professionals	\$500	\$625
☐ ASE Sonographer	\$300	\$400
☐ Sonographer	\$400	\$500

*Letter from program director is required to receive the discounted fee. If letter is not received two weeks prior to the activity, the full physician fee will be charged.

For registration questions, please email cmeregistration@ccf.org or call 216.448.0777

Cleveland Clinic recognizes the importance of protecting the privacy and security of information provided to us. Therefore, we are no longer requesting credit card data in writing, including on registration forms or faxes. If you would like to register using a credit card, please log in to www.ccfcme.org/echo or call 216.448.0777 where it will be handled directly by a certified processor.

GENERAL INFORMATION

Location

Eden Roc Miami Beach

4525 Collins Avenue

Miami Beach, FL 33140

Phone: 305.531.0000 or 866.281.6375

Hotel Accommodations

A limited block of rooms has been reserved at the Eden Roc Miami Beach until Monday, January 27, 2014. To make reservations contact the Hotel Reservations Department at 866.281.6375. Please identify yourself as being with **Cleveland Clinic Diastology** for a special rate of \$299 single/double (plus tax).

Overlooking world-renowned Miami Beach on prestigious Millionaire's Row, Eden Roc is a timeless treasure, close to Bal Harbour shops, South Beach, art galleries and the world-renowned South Beach Art Deco and Entertainment District. Among many awards, Eden Roc has received Hot List recognition as well as Best New Spas in the World by *Conde Nast Traveler*, along with *Esquire's* Best New Restaurants in the U.S. award.

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Beyond enjoying the radiant sun, surf, and sand, discover Miami Beach's rich history as an entertainment and cultural destination. From world-famous art deco architecture to renowned nightclubs and designer fashions, there's so much going on in Miami Beach.

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Information

For further information about this Summit, contact the Cleveland Clinic Center for Continuing Education at 216.448.0770 or toll free at 800.238.6750 or visit www.ccfcmec.org/echo

Registration and Cancellation

Please register online at ccfcmec.org/echo. For assistance, please call 216.448.0777 or email us at cmeregistration@ccf.org.

Fees includes online access to presentations in PDF format, meeting materials, continental breakfasts, refreshment breaks, and workshops.

Preregistrations are accepted online until 2:00 pm ET on **February 24, 2014**. Please register on site after this date. In case of cancellation, a full refund will be made if canceled by February 13, 2014. After February 13, 2014, a \$100 cancellation fee will be deducted from your refund. Written notification of your cancellation is required to process your refund. **NO REFUNDS WILL BE ISSUED AFTER MARCH 30, 2014.**

Syllabus

PowerPoint Presentations in PDF format will be available to attendees online prior to the Summit.

Parking

Hotel Parking Fee: \$35 (plus tax) per day.

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Accreditation

The Cleveland Clinic Foundation Center for Continuing Education is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Cleveland Clinic Foundation Center for Continuing Education designates this live activity for a maximum of 21.5 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Participants claiming CME credit from this activity may submit the credit hours to the **American Osteopathic Association** for Category 2 credit.

AMA PRA Category 1 Credits™ are accepted by the **American Registry for Diagnostic Medical Sonography** (ARDMS). This product/service is not endorsed by or affiliated with the ARDMS.

Cardiovascular Credentialing International accepts CEUs approved by the American Medical Association.

The **Ohio Board of Nursing** will accept at face value the number of contact hours awarded for an educational activity that has been approved for CE by a nationally accredited system of CE approval. Therefore, the 21.5 *AMA PRA Category 1 Credits™* will be accepted for nursing credits.

Faculty Disclosure

The Cleveland Clinic Foundation Center for Continuing Education has implemented a policy to comply with the current Accreditation Council for Continuing Medical Education Standards for Commercial Support requiring resolution of all faculty conflicts of interest. Faculty declaring a relevant commercial interest will be identified in the activity syllabus.

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Registration Form

17th Diastology and Valve Summit

February 27 – March 1, 2014

Eden Roc Hotel | Miami Beach, FL

Course #: 01110034

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Phone Number: _____ Fax Number: _____

Email Address: _____ Specialty: _____

Practice Type: ☐ Office-Based ☐ Hospital Staff ☐ Resident/Fellow ☐ Other

☐ I require vegetarian meals.

Fees

Fee Includes: Online access to presentations in PDF format, meeting materials, continental breakfasts, refreshment breaks, and workshops.

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☐ ASE Physician	\$700	\$800
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☐ Resident*/Fellow*/Nurse/Allied Health Professionals	\$500	\$625
☐ ASE Sonographer	\$300	\$400
☐ Sonographer	\$400	\$500

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Workshop Sign Up (Please indicate your choice)

Thursday, February 27, 2014: ☐ Workshop A or ☐ Workshop B

Friday, February 28, 2014: ☐ Workshop C or ☐ Workshop D

Saturday, March 1, 2014: ☐ Workshop E or ☐ Workshop F

☐ I would like to purchase the *Diastology: Clinical Approach to Diastolic Heart Failure* textbook for \$165

☐ I would like to purchase the *Clinical Echocardiography Review* textbook for \$100

For registration questions, please email cmeregistration@ccf.org or call 216.448.0777

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