



12th Annual

Intensive Review of Cardiology

Comprehensive Four-Day Symposium

August 21 – 24, 2011 | Cleveland, Ohio, USA

NEW ADDITION FOR 2011

.....
Focused Review in Interventional Electrophysiology:
Extraction and Ablation

Saturday, August 20, 2011

Register Today:

www.ccfcmc.org/cardioreview11

Educators at Heart

12th Annual Intensive Review of Cardiology

August 21 – 24, 2011

Dear Colleague,

We are exceedingly pleased to invite you to the *12th Annual Intensive Review of Cardiology*, August 21 – 24, 2011, at the InterContinental Hotel and Bank of America Conference Center on the Cleveland Clinic campus in Cleveland, Ohio.

This symposium continues to be a wonderful forum to critically review current thinking and management of all the major cardiovascular disciplines. The symposium focus will be on practicing cardiologists and the delivery of contemporary cardiovascular medicine including complex patient management decision making. Cardiovascular Board Certification and Re-certification Examination candidates will also find this symposium useful.

Our aim is that this will be fun, clinically relevant, and stimulating. To achieve this goal, we will continue to integrate audience interaction with review of cases, images, and relevant data during the lectures. This year, the program is scheduled for four days. We have introduced more interactive panel discussions and will further test your knowledge at the close of each day, emphasizing key patient care management concepts.

We plan on highlighting the clinical evaluation and management of the patient encountered in daily practice. The current ACC/AHA guidelines supporting treatment and management recommendations will be referenced as will treatment controversies and dilemmas. **Interactive patient management evening sessions** specific to electrophysiology and the cardiac catheterization laboratory are also planned.

We are pleased to introduce two new educational opportunities this year:

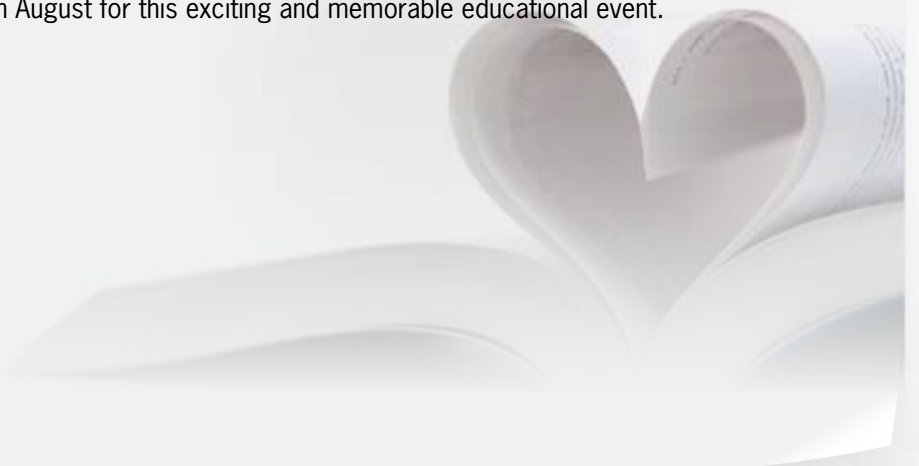
- A presymposium titled *Focused Review in Interventional Electrophysiology: Extraction and Ablation* will be offered on Saturday August 20, from noon to 6:00 pm.
- Electrocardiograms for the Boards – Interactive Session will be offered Monday, Tuesday, and Wednesday mornings.

Our evening reception will be held on Monday, August 22, at which time you will have an opportunity to interact with us in a less formal setting. This will be followed by two evening presentations.

In addition to these broad symposium goals, many other important topics and cases will be included. The Bank of America Conference Center has exceptional features that enhance learning and comfort. As symposium codirectors, we truly hope you will be able to join us in August for this exciting and memorable educational event.

Sincerely,

Brian Griffin, MD
Curtis M. Rimmerman, MD
Samir Kapadia, MD



12th Annual Intensive Review of Cardiology

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Objectives

- Summarize the current understanding of the pathophysiology of acute coronary syndromes;
- Explain management strategies for acute myocardial infarction and describe the major clinical trials that have shaped those strategies;
- List the various noninvasive modalities available to evaluate coronary artery and valvular heart disease and describe their merits, complementary roles, roles in patient management, and prognostic values;
- Interpret both common and complex 12-lead electrocardiograms and analyze subtle yet clinically important findings relevant to the board examination;
- Describe the current medical and surgical treatment options in patients with congestive heart failure including the major clinical trials that have shaped practice behaviors.
- Identify the pathophysiology, evaluation, modalities, and treatment options in patients with valvular heart disease including a comprehensive review of echocardiography;
- Evaluate and treat patients with complex dysrhythmias and describe the indications for electrophysiology testing, pacemaker implantation, and ICD placement in these patients;
- Recognize and appropriately treat the clinical scenarios in cardiovascular medicine used in the examinations for Board Certification in Cardiovascular Disease.

Target Audience

- Practicing cardiologists seeking a comprehensive review of contemporary cardiovascular medicine;
- Cardiologists and cardiology fellows preparing for the Cardiovascular Board Certification and Re-certification Examination.



12th Annual Intensive Review of Cardiology

August 21 – 24, 2011

Codirectors

Brian Griffin, MD, FACC

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Director, Cardiovascular Disease Training Program
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Cleveland Clinic

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Cleveland Clinic Faculty

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Imaging Institute
Staff Cardiologist
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12th Annual Intensive Review of Cardiology

August 21–24, 2011

Cleveland Clinic Faculty (continued)

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Bruce L. Wilkoff, MD

Director, Cardiac Pacing and
Tachyarrhythmia Devices
Department of Cardiovascular Medicine
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Optional Presymposium

Focused Review in Interventional Electrophysiology: Extraction and Ablation

August 20, 2011

This will be an in-depth focused electrophysiology review. It will be divided into two parts. The first part will tackle CIED extraction, reviewing indications, techniques, and guidelines. Case presentations will be used to illustrate key points.

The second part will focus on the developing trends in AF and VT ablation including indications, techniques of ablation, and follow-up.

Objectives

- Provide an in-depth review of extraction indications, techniques, and personnel;
- Describe atrial fibrillation and VT ablation indications and techniques.

Codirectors

Bruce L. Wilkoff, MD

Director, Cardiac Pacing and Tachyarrhythmia Devices
Department of Cardiovascular Medicine
Heart and Vascular Institute
Cleveland Clinic

Oussama M. Wazni, MD

Section of Cardiac Pacing and Electrophysiology
Director, Research Development
Director, EP Outpatient Development
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Heart and Vascular Institute
Cleveland Clinic

Agenda | Saturday, August 20, 2011

CIED Lead Management with Emphasis on the Noninfected Patient

Complex Arrhythmia Management with Emphasis on Transeptal Access, Post-AF Ablation of Arrhythmias, and Epicardial Access and Ablation

12:00 pm Registration/Light Lunch/Exhibits
3rd Floor Foyer

12:50 pm Introduction and Overview
Bruce L. Wilkoff, MD

Session I

Moderators: *Bruce L. Wilkoff, MD*
Oussama M. Wazni, MD

1:00 pm CIED Infection and Management
Khaldoun Tarakji, MD, MPH

1:30 pm Overview of Noninfectious Indications for Lead Extraction: Basic Extraction Techniques
Oussama M. Wazni, MD

2:10 pm Case Presentation:
Challenging Decision Points in Noninfection
Extraction Snaring and Advanced Techniques
Bruce L. Wilkoff, MD

3:20 pm Refreshment Break and Exhibits

Session II

Moderators: *Bruce L. Wilkoff, MD*
Oussama M. Wazni, MD

3:40 pm Transeptal Puncture in Focused View: Tools and Techniques, How to Minimize Complications, and Open the Door to Left Atrial Intervention
Oussama M. Wazni, MD

4:00 pm Overview of AF Ablation
Bryan Baranowski, MD

4:20 pm Case Presentations: Post-AF Ablation Arrhythmia Decision Points in Management
Key Issues in Mapping and Ablation
Bruce D. Lindsay, MD
Mohamed Kanj, MD

5:00 pm Pericardial Access and Important Fluoroscopic Landmarks Minimizing Complications and Optimizing Access to the Pericardium
Oussama M. Wazni, MD

5:20 pm Pericardial Intervention: From Ablation to Pacing and More...
Walid I. Saliba, MD

6:00 pm Reception

7:00 pm – 8:30 pm Management of CIED Infection – A Case Based Discussion (non CME)
Bruce L. Wilkoff, MD
Oussama M. Wazni, MD

12th Annual Intensive Review of Cardiology

August 21 – 24, 2011

Agenda | Sunday, August 21, 2011

7:00 am	Registration/Continental Breakfast/Exhibits <i>3rd Floor Foyer</i>	2:15 pm	Case-Based Panel and Audience Discussion: Ventricular Arrhythmias – Case Studies <i>Mark Niebauer, MD, PhD</i> <i>P. Peter Borek, MD</i> <i>Niraj Varma, MD, PhD</i>
7:50 am	Welcome, Introduction and Symposium Overview		
Electrophysiology		3:00 pm	Refreshment Break and Exhibits
8:00 am	Introduction to Electrophysiology Testing and Intracardiac Electrograms <i>Mina K. Chung, MD</i>	3:30 pm	Sudden Cardiac Death – Essential Facts and the Guidelines <i>Thomas Dresing, MD</i>
8:30 am	Case-Based Panel Discussion - Arrhythmias on 12-Lead Electrocardiograms, Wide Complex Tachycardias, His Bundle Recordings <i>Walid I. Saliba, MD</i> <i>Bryan Baranowski, MD</i> <i>Christine Tanaka-Esposito, MD</i>	4:00 pm	Case-Based Panel and Audience Discussion: Sudden Cardiac Death <i>David Martin, MD, MPH</i> <i>Thomas Dresing, MD</i> <i>Khalidoun Tarakji, MD, MPH</i>
9:15 am	Cardiac Arrhythmias – Supraventricular Tachycardias <i>Mandeep Bhargava, MD</i>	4:30 pm	Devices – Pacemakers and Lead Management <i>Bruce L. Wilkoff, MD</i>
9:45 am	Refreshment Break and Exhibits	5:00 pm	Devices – ICDs and Cardiac Resynchronization Therapy <i>Bruce L. Wilkoff, MD</i>
10:15 am	Case-Based Panel Discussion – Supraventricular Arrhythmias <i>Bryan Baranowski, MD</i> <i>Thomas Callahan, MD</i> <i>Mandeep Bhargava, MD</i>	5:30 pm	Case-Based Panel Discussion - Controversies in Device Therapies <i>Bruce L. Wilkoff, MD</i> <i>David Martin, MD, MPH</i> <i>Dan Cantillon, MD</i>
11:00 am	Atrial Fibrillation/Flutter <i>Mohamed Kanj, MD</i>	6:00 pm	Adjourn
11:30 am	Case-Based Panel and Audience Discussion: Atrial Fibrillation/Flutter – What's New? <i>Mohamed Kanj, MD</i> <i>Thomas Callahan, MD</i> <i>Oussama M. Wazni, MD</i>	7:00 – 8:30 pm	Evening Session: EP – Management of Arrhythmias – Case Studies <i>Oussama M. Wazni, MD</i> <i>P. Peter Borek, MD</i> <i>Daniel J. Cantillon, MD</i>
12:00 pm	Lunch		
1:00 pm	Syncope, POTS, and other Neurocardiogenic Syndromes – Interactive Case Studies <i>Fredrick Jaeger, DO</i>		
1:30 pm	Cardiac Arrhythmias – Ventricular Tachyarrhythmias <i>Mina K. Chung MD</i>		



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Agenda | Monday, August 22, 2011

6:30 am	Continental Breakfast/Exhibits 3rd Floor Foyer	12:30 pm	Lunch
7:00 am	Electrocardiograms for the Boards – Interactive Session <i>Curtis M. Rimmerman, MD</i>	1:30 pm	Contemporary Role of Stress Testing in Management of Coronary Disease <i>Wael A. Jaber, MD</i>
8:10 am	Cath Lab Pharmacology: Antiplatelet and Antithrombotic Agents <i>A. Michael Lincoff, MD</i>	2:00 pm	Functional Mitral Regurgitation – Any Role for Revascularization? <i>Benico Barzilai, MD</i>
8:45 am	Management of Acute STEMI: Primary PCI, Lytics and Pharmacoinvasive Strategies <i>Stephen G. Ellis, MD</i>	2:30 pm	CTO: When and How to Intervene <i>Patrick Whitlow, MD</i>
9:30 am	Unstable Angina and Non-STEMI: Management in 2011 <i>A. Michael Lincoff, MD</i>	3:00 pm	Hybrid Cath Lab Procedures: Prospects and Issues <i>E. Murat Tuzcu, MD</i>
10:00 am	Refreshment Break and Exhibits	3:30 pm	Refreshment Break and Exhibits
10:30 am	Revascularization in Stable Angina: CABG and PCI <i>Samir Kapadia, MD</i>	4:00 pm	Cardiac Anatomy for Interventionalists <i>Samir Kapadia, MD</i>
11:00 am	Stenting of LMT: Argument for Stenting <i>Stephen G. Ellis, MD</i>	4:30 pm	What Is New in Stenting: Bioabsorbable Stents and Beyond <i>Stephen G. Ellis, MD</i>
11:15 am	Stenting of LMT: Argument for Surgery <i>Joseph Sabik, MD</i>	5:00 pm	Test Your Knowledge <i>Samir Kapadia, MD</i> <i>Mehdi Shishehbor, DO, MPH</i>
11:30 am	Coronary Imaging and Functional Analysis in Cardiac Cath Lab: IVUS, OCT, FFR <i>E. Murat Tuzcu, MD</i>	6:00 pm	Adjourn
12:00 pm	Renal and Lower Extremity Disease, When and How to Intervene <i>Mehdi Shishehbor, MD, MPH</i>	6:30 – 7:45 pm	Reception and Presentation



12th Annual Intensive Review of Cardiology

August 21 – 24, 2011

Agenda | Tuesday, August 23, 2011

- 6:30 am Continental Breakfast/Exhibits
3rd Floor Foyer
- 7:00 am Electrocardiograms for the Boards –
Interactive Session
Curtis M. Rimmerman, MD

Heart Failure

- 8:00 am Systolic Heart Failure – Epidemiology,
Diagnosis, and Treatment Guidelines
Mazen Hanna, MD
- 8:40 am Diastolic Heart Failure – Definition,
Diagnosis, Significance, and Management
Allan L. Klein, MD
- 9:10 am Case-Based Panel Discussion –
Systolic and Diastolic Heart Failure
Mazen Hanna, MD
Allan L. Klein, MD
David O. Taylor, MD
- 9:40 am Hypertrophic Cardiomyopathy –
Prevalence, Diagnosis, and Management
Harry Lever, MD
- 10:25 am Refreshment Break and Exhibits
- 10:55 am Transplantation and Mechanical Devices
David O. Taylor, MD
- 11:30 am Myocarditis
Eileen Hsich, MD
- 11:50 am Primary and Secondary
Pulmonary Hypertension
W. H. Wilson Tang, MD
- 12:20 pm Key Concepts Review – Q and A
David O. Taylor, MD
Eileen Hsich, MD
- 1:00 pm Lunch
- 2:00 pm Lipid Management – Treatment Guidelines
Michael Rocco, MD
- 2:30 pm Case-Based Lipid Management
Leslie Cho, MD

Gender and Cardiovascular Disease

- 3:00 pm Gender-Related Issues in
Cardiovascular Disease
Ellen Mayer Sabik, MD
- 3:30 pm Refreshment Break and Exhibits

Peripheral Arterial and Venous Disease

- 4:00 pm Peripheral Arterial Disease (Legs and Renals) –
Case-Based Studies
Natalie Evans, MD
- 4:30 pm Carotid Disease – Case-Based Discussion
Stent Versus Surgery
Mehdi Shishehbor, DO, MPH
- 5:00 pm Venous Thromboembolic Disease –
Case-Based Studies
John R. Bartholomew, MD

Coronary Angiography

- 5:30 pm The Normal and Abnormal Angiogram
Robert Hobbs, MD
- 6:00 pm Adjourn
- 7:00 – 8:30 pm
Evening Session:
Cardiac Catheterization Images
Samir Kapadia, MD



12th Annual Intensive Review of Cardiology

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Agenda | Wednesday, August 24, 2011

- 6:30 am Continental Breakfast/Exhibits
3rd Floor Foyer
- 7:00 am Electrocardiograms for the Boards –
Interactive Session
Curtis M. Rimmerman, MD
- Valve Disease**
Moderator: *Brian Griffin, MD*
- 8:00 am Essentials of Mitral and Tricuspid Valve
Disease Based on Imaging and the
ACC/AHA Guidelines
William Stewart, MD
- 8:45 am Essentials of Aortic and Pulmonary Valve
Disease Based on Imaging and the
ACC/AHA Guidelines
Brian Griffin, MD
- 9:30 am Evolving Data in Percutaneous Approach to
Structural Heart Disease
Samir Kapadia, MD
- 10:00 am Refreshment Break and Exhibits
- 10:30 am Prosthetic Valve Dysfunction – What's Wrong
with this Valve?
James Thomas, MD
- 11:15 am Imaging in Congenital Heart Disease
Richard Krasuski, MD
- 11:45 am Panel – Case-Based Approach to Valve
Disease Management
A. Marc Gillinov, MD
Samir Kapadia, MD
William Stewart, MD
James Thomas, MD
- 12:15 pm Lunch

Imaging and Disease of Aorta and Congenital Heart Disease

Moderator: *Gian M. Novaro, MD*

- 1:15 pm Essentials of Congenital Heart Disease –
What Do the Guidelines Say?
Richard Krasuski, MD
- 2:00 pm CT and MRI in Coronary Disease and Heart
Failure Pretty Pictures or Real Information –
What Is the Evidence and What Are
the Guidelines?
Milind Desai, MD
- 2:30 pm Evidence-Based Selection of Imaging in Valve
Disease and Aorta Disease
Thomas Marwick, MD, PhD
- 3:15 pm Evidence-Based Management of Disease
of the Aorta
Gian M. Novaro, MD
- 3:45 pm Refreshment Break and Exhibits
- 4:15 pm Nuclear Cardiology – Evidence-Based
Approach with Cases
Manuel D. Cerqueira, MD
- 4:45 pm Noninvasive Assessment of LV Function and
Ischemia – Case-Based Approach
with Echocardiography
Richard A. Grimm, DO
- 5:15 pm Interactive Assessment of Key Concepts in
Valve Disease, Aorta Disease, Congenital
Heart Disease, and Imaging
Gian M. Novaro, MD
- 6:00 pm Adjourn

Please note daily topics may change in order or time of presentations.



12th Annual Intensive Review of Cardiology

August 21 – 24, 2011

General Information

Location

InterContinental Hotel & Bank of America Conference Center
Bank of America Conference Center – 3rd Floor
9801 Carnegie Avenue, Cleveland, OH 44106

Phone: 216.707.4100 or 877.707.8999

Hotel Accommodations

A block of rooms has been reserved at the InterContinental Hotel for a special rate of \$175.00 single/double (plus tax) and at the InterContinental Suites Hotel located at 8800 Euclid Avenue for a special rate of \$149 single/double (plus tax). The Suites Hotel is within walking distance to the InterContinental Hotel and Bank of America Conference Center. To obtain these special rates you must make your reservations by 5:00 pm ET on August 1, 2011. To make your reservations, contact the Hotel Reservations Department at 216.707.4100 or 877.707.8999. Please identify yourself as being with the **Cleveland Clinic Intensive Review of Cardiology**, and refer to following booking codes:

The InterContinental Hotel is RBS

The InterContinental Suites Hotel is RBT

Registration and Cancellation

Pre-registrations are accepted by fax or online until 2:00 pm ET Friday, August 19, 2011. To register after this date you must do so on-site. In case of cancellation, a full refund will be made if canceled by August 10, 2011. After August 10, 2011, a \$50 PER DAY cancellation fee will be deducted from your refund. Written notification of your cancellation is required in order to process your refund. NO REFUNDS WILL BE ISSUED AFTER SEPTEMBER 30, 2011.

Americans with Disabilities Act

The Cleveland Clinic Foundation Center for Continuing Education fully intends to comply with the legal requirements of the Americans with Disabilities Act. If you need assistance, please notify us at 216.448.0770 at least two weeks prior to the activity.

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 44 *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 Council on Continuing Medical Education in Category 2 credit.

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 44 physician *AMA PRA Category 1 Credits™* will be accepted for nursing credits. Nurses from other states should contact their State Board of Nursing.

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.

Ground Transportation

Taxi service is available from Cleveland Hopkins International Airport to the InterContinental Hotel and Bank of America Conference Center for an approximate fee of \$35.

Information

For further information about this symposium, contact The Cleveland Clinic Center for Continuing Education at

Local: 216.448.0770

Toll Free: 800.238.6750

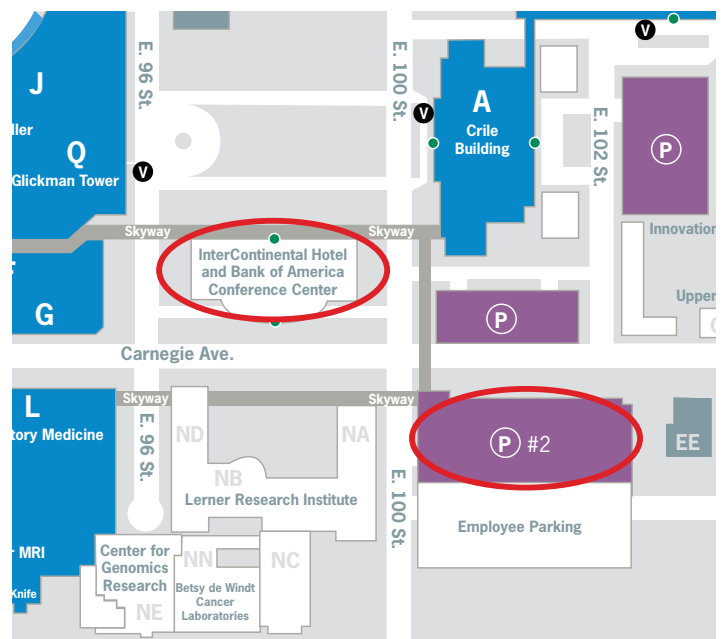
Web Address: www.ccfme.org/CardioReview11

For questions about registering online, call 216.448.0777, or email cmeregistration@ccf.org.

For emergency phone calls during the symposium, please call 216.707.4100 and ask for the Cleveland Clinic Registration Desk.

Parking

Parking is available in the 100th Street Visitor's Parking Garage for a charge of \$10 per day. The garage will be open Sunday from 6:30 am – 7:30 pm, Monday through Friday from 6:30 am – 11:00 pm, and Saturday from 6:30 am – 10:30 pm. Valet parking is available at the hotel for an additional charge.



12th Annual Intensive Review of Cardiology

August 21-24, 2011

InterContinental Hotel & Bank of America Conference Center | Cleveland, OH

Course # 011760 • Office Use Only	
Fee	Date
MOP	CXL/Fee

Fees: Please Select all that Apply

Full Registration Fee Includes: Registration material, continental breakfasts, four luncheons, refreshment breaks, flash drive syllabus, and reception.

Per Day Registration Fee Includes: Registration material, continental breakfast, lunch, refreshment breaks, and flash drive syllabus.

Fees	Before July 15		After July 15	
	**Full Symposium	Per Day	**Full Symposium	Per Day
Indicate Full or Per Day	<input type="checkbox"/> Four Days	<input type="checkbox"/> Sun <input type="checkbox"/> Mon <input type="checkbox"/> Tues <input type="checkbox"/> Wed	<input type="checkbox"/> Four Days	<input type="checkbox"/> Sun <input type="checkbox"/> Mon <input type="checkbox"/> Tues <input type="checkbox"/> Wed
Physician	<input type="checkbox"/> \$870.00	<input type="checkbox"/> \$255.00	<input type="checkbox"/> \$895.00	<input type="checkbox"/> \$265.00
CompreCare Affiliate ID# _____	<input type="checkbox"/> \$556.75	<input type="checkbox"/> \$175.00	<input type="checkbox"/> \$581.75	<input type="checkbox"/> \$172.25
Cleveland Clinic Alumnus	<input type="checkbox"/> \$512.00	<input type="checkbox"/> \$163.00	<input type="checkbox"/> \$537.00	<input type="checkbox"/> \$159.00
Nurse/Nurse Practitioner/Physician Assistant	<input type="checkbox"/> \$460.00	<input type="checkbox"/> \$155.00	<input type="checkbox"/> \$485.00	<input type="checkbox"/> \$165.00
Resident/Fellow*	<input type="checkbox"/> \$460.00	<input type="checkbox"/> \$155.00	<input type="checkbox"/> \$485.00	<input type="checkbox"/> \$165.00

*Letter from Program Director must be received prior to the symposium
 **The above fees do not include optional presymposium.

Optional Presymposium
Focused Review in Interventional Electrophysiology: Extraction and Ablation
 Saturday August 20, 2011 | 12:00 – 6:00 pm
 Additional Fee: \$125.00
Registration Fee Includes: Registration material, light lunch, refreshment break, and reception
 I will attend

GROUP DISCOUNT AVAILABLE:
 For groups of 3 or more: \$100.00 off EACH full symposium fee. Registrations must be submitted together by fax or mail.
 Does not include presymposium.

Register Online: www.ccfme.org/cardioreview11
 Cleveland Clinic employee fees and registration are available online.

Presymposium: \$ _____

Intensive Review of Cardiology: \$ _____

Total Amount Enclosed or to be charged: \$ _____

Complete the information below if registering by mail or fax:

(please print)

First Name:	MI	Last Name:	Degree:
Company Name:			
Address:			
City:		State:	Zip:
Phone Number:		Fax Number:	
Specialty:		Email Address:	
Practice Type: <input type="checkbox"/> Office-Based <input type="checkbox"/> Hospital-Based <input type="checkbox"/> Resident/Fellow <input type="checkbox"/> Other			

I require a vegetarian lunch

Make check payable to: The Cleveland Clinic Educational Foundation

Or charge the following account: Visa MasterCard American Express Discover

Card Number:	Expiration Date:
V Code: (3/4 digit number on card)	
Signature: (not valid without signature)	

Fax Number: 216.448.0783

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

For questions about registering online, call 216.448.0777 or email CMEregistration@ccf.org