



AUGUST 16-19, 2017 | RENAISSANCE CHICAGO DOWNTOWN | CHICAGO, ILLINOIS

2017 BOARD REVIEW COURSE

Clinical Cardiac Electrophysiology

COURSE DIRECTOR

Kenneth A. Ellenbogen, MD, FHRS

CO-DIRECTORS

Gregory F. Michaud, MD, FHRS

John M. Miller, MD, FHRS

Your definitive source for first-hand expert guidance on essential exam areas!

Register today at

www.HRSonline.org/BRC17

Register by July 25, 2017 to lock in
early registration rates!



The Heart Rhythm Society's Annual Board Review Course is the preferred resource for physicians seeking a comprehensive review of content focused on preparation for the American Board of Internal Medicine (ABIM) certification and recertification examinations in Clinical Cardiac Electrophysiology (CCEP). The course provides expert guidance on the essential EP curriculum. For those not preparing for the exam, this course is an excellent update and overview of cardiac electrophysiology.

COURSE HIGHLIGHTS

Nine workshops with ABIM CCEP board format questions using audience response system

- ▶ Lectures with content focused on ABIM CCEP board preparation
- ▶ Session on "Strategies for Success: Preparing for the Boards"
- ▶ Additional online presentations
- ▶ Content areas feature topics in:
 - Basic cardiac and intracardiac electrophysiology
 - Pharmacology of antiarrhythmic drugs
 - Noninvasive testing for arrhythmias
 - Atrial and other supraventricular tachycardias
 - Catheter ablation
 - Implantable cardioverter defibrillators
 - Cardiac pacing

WHO SHOULD ATTEND?

- ▶ EP Fellows
- ▶ Clinical Cardiac EPs
- ▶ Directors of EP Labs
- ▶ Cardiologists
- ▶ MDs taking the ABIM CCEP Board Certification Exam
- ▶ MDs taking the ABIM CCEP Recertification Exam

LEARNING OBJECTIVES

Upon completion of this educational activity, participants will be able to:

- ▶ Describe the current guidelines related to evaluation and management of patients with cardiac rhythm disturbances
- ▶ Describe the role of electrophysiologic testing in managing patients with bradyarrhythmias and tachyarrhythmias
- ▶ Identify the advantages and limitations of diagnostic electrophysiologic methods
- ▶ Identify the role of pharmacologic and non-pharmacologic therapies for the treatment of arrhythmias
- ▶ Recognize the basic electrophysiology and genetics of inherited conditions associated with cardiac arrhythmias
- ▶ Recognize clinical, electrocardiographic, and electrophysiologic characteristics of specific cardiac arrhythmia syndromes
- ▶ Interpret complex electrophysiologic and electrocardiographic tracings
- ▶ Interpret stored electrograms from pacemakers and ICDs



COURSE DIRECTOR

Kenneth A. Ellenbogen, MD, FHRS
Professor of Medicine
Director, Cardiac Electrophysiology and
Pacemaker Laboratory
Medical College of Virginia
Richmond, VA

COURSE CO-DIRECTORS

Gregory F. Michaud, MD, FHRS
Professor of Medicine
Vanderbilt University Medical School
Chief, Arrhythmia Service
Vanderbilt University Medical Center
Nashville, TN

John M. Miller, MD, FHRS
Professor of Medicine
Krannert Institute of Cardiology
Indiana University School of Medicine
Indianapolis, IN

COURSE FACULTY

Samuel J. Asirvatham, MD, FHRS
Professor of Medicine and of Pediatrics Vice
Chair, Division of
Cardiovascular Diseases
Director, Clinical Cardiac Electrophysiology
Training Program

Mayo Clinic
Rochester, MN

Edward P. Gerstenfeld, MD, FHRS
Professor of Medicine
Chief, Cardiac Electrophysiology
and Arrhythmia Service
University of California San Francisco
San Francisco, CA

Barry London, MD, PhD
Professor of Medicine
Chair, Division of Cardiovascular Medicine
Co-Director, Cardiovascular
Research Center
University of Iowa Carver College
of Medicine
Iowa City, IA

Francis E. Marchlinski, MD, FHRS
Professor of Medicine
University of Pennsylvania Health System
Philadelphia, PA

Fred Morady, MD
McKay Professor of
Cardiovascular Disease
Professor of Medicine
University of Michigan Health System
Ann Arbor, MI

Jeanne E. Poole, MD, FHRS
Professor of Medicine
Division of Cardiology
University of Washington
Seattle, WA

Eric N. Prystowsky, MD, FHRS
Consulting Professor of Medicine
Duke University Medical Center
Durham, North Carolina
Director, Cardiac Arrhythmia Service
St. Vincent Hospital and Health Center
Indianapolis, IN

William G. Stevenson, MD, FHRS
Professor of Medicine
Harvard Medical School
Arrhythmia Service
Brigham and Women's Hospital
Boston, MA

Gordon F. Tomaselli, MD, FHRS
Professor of Medicine
Michel Mirowski Professor of Cardiology
Chief, Division of Cardiology
Johns Hopkins University School
of Medicine
Baltimore, MD

I truly believe the
course offers great
updates for practicing
electrophysiologists,
both in preparation for
Boards as well as day-to-
day care of patients.

Venkat N. Tholakanahalli, MD, FHRS

COURSE FORMAT

This course features didactic lectures supplemented with case-based workshops utilizing an audience response system (ARS) to facilitate an interactive learning session and in-depth coverage of exam content areas. Test your decision-making skills in real time as you respond to questions using the ARS, and receive immediate feedback on your decisions.



For more information and to register online, visit www.HRSONline.org/BRC17

TOGETHER WE ARE SHARE IDEAS

TOGETHER WE ARE  HRSSM

"The Heart Rhythm Society has been a part of my life for the last 11 years - first as a fellow in training and then as a practicing physician. It's my society that works with me, addresses the need that I have as a cardiac electrophysiologist, and ultimately, helps me in my day-to-day practice."

Sumeet K. Mainigi, MD, FHRS
Albert Einstein Medical Center,
Dept. of Cardiology and Electrophysiology
Joined HRS in 2009



Together we can make
a difference. Join today.

HRSonline.org/join

2017 Board Review Course in Clinical Cardiac Electrophysiology

*Presentations and faculty subject to change**

Wednesday, August 16, 2017

8 a.m. – 8:30 p.m. REGISTRATION OPEN

12:30 – 12:45 p.m.

Welcome and Overview of Course

Kenneth A. Ellenbogen, MD, FHRS

12:45 – 1 p.m.

Strategies for Success: Preparing for the Boards

Kenneth A. Ellenbogen, MD, FHRS

► **Session I: Basic Science and Fundamentals of Electrophysiology**

Chair: Kenneth A. Ellenbogen, MD, FHRS

1 – 2:15 p.m.

Basic Electrophysiology Principles for the Clinician

Gordon F. Tomaselli, MD, FHRS

2:15 – 3:15 p.m.

Inherited Ion Channelopathies

Barry London, MD, PhD

3:15 – 3:30 p.m. COFFEE BREAK

3:30 – 4:30 p.m.

Sinoatrial and Atrioventricular Nodes and His-Purkinje System: Anatomy, Evaluation, Autonomics and Therapy

John M. Miller, MD, FHRS

4:30 – 5:30 p.m.

Retrograde Conduction

John M. Miller, MD, FHRS

5:30 – 6 p.m. DINNER

6 – 7:30 p.m.

Workshop #1: Electrocardiographic/ Electrophysiologic Correlations

6 – 6:30 p.m.

Physiology and Conduction

Chair: John M. Miller, MD, FHRS

6:30 – 7 p.m.

Basic Science and Channelopathies

Barry London, MD, PhD

7 – 7:30 p.m.

Basic Science

Gordon F. Tomaselli, MD, FHRS

7:30 p.m. ADJOURN

Faculty Present to Answer Questions

Very happy that I took the EP Board Review Course. Excellent global update and review of very pertinent discussions, getting it firsthand from the best in the field.”

Hossein Shenasa, MD, FHRS



Note:

**Presentations will be available to download two weeks prior to the live course. Attendees are strongly encouraged to download the content onto their device prior to arrival. All content is delivered electronically.*

2017 Board Review Course in Clinical Cardiac Electrophysiology

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Thursday, August 17, 2017

7 – 7:30 a.m. CONTINENTAL BREAKFAST

▶ Session II: Invasive Diagnosis and Treatment

Chair: John M. Miller, MD, FHRS

7:30 – 8:10 a.m.

Use of Entrainment in Supraventricular Tachycardia

John M. Miller, MD, FHRS

8:10 – 8:45 a.m.

Principles of Entrainment – Ventricular Tachycardia

William G. Stevenson, MD, FHRS

8:45 – 9:30 a.m.

Techniques of Differentiating SVT Mechanisms: Part I

Gregory F. Michaud, MD, FHRS

9:30 – 9:45 a.m. COFFEE BREAK

9:45 – 10:15 a.m.

Techniques of Differentiating SVT Mechanisms: Part II

Gregory F. Michaud, MD, FHRS

10:15 – 11:45 a.m.

Workshop #2: Entrainment and SVT Maneuvers

10:15 – 10:45 a.m.

SVT Maneuvers Cases

Chair: Gregory F. Michaud, MD, FHRS

10:45 – 11:15 a.m.

Entrainment Cases – VT

William G. Stevenson, MD, FHRS

11:15 – 11:45 a.m.

Entrainment Cases – SVT

John M. Miller, MD, FHRS

11:45 a.m. – 12:45 p.m. LUNCH

12:45 – 2 p.m.

Catheter Ablation of Atrial Tachycardia
and Atrial Flutter

William G. Stevenson, MD, FHRS

2 – 2:45 p.m.

Catheter Ablation of Accessory Pathways

Fred Morady, MD

2:45 – 3:15 p.m. COFFEE BREAK

3:15 – 5:15 p.m.

Workshop #3: SVT Mechanisms/Maneuvers

3:15 – 3:45 p.m.

Chair: William G. Stevenson, MD, FHRS

3:45 – 4:15 p.m.

Gregory F. Michaud, MD, FHRS

4:15 – 4:45 p.m.

Fred Morady, MD

4:45 – 5:15 p.m.

Eric N. Prystowsky, MD, FHRS

5:15 – 6 p.m.

Catheter Ablation of AV Nodal Reentrant Tachycardia

Fred Morady, MD

6 – 6:30 p.m.

Special Workshop: 12 Lead EKG for PVC and VT
Localization

John M. Miller, MD, FHRS and

William G. Stevenson, MD, FHRS

6:30 p.m. ADJOURN

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2017 Board Review Course in Clinical Cardiac Electrophysiology

Presentation and faculty subject to change*

Friday, August 18, 2017

7 – 7:15 a.m. CONTINENTAL BREAKFAST

► Session III: Invasive Diagnosis and Treatment

Chair: Francis E. Marchlinski, MD, FHRS

7:15 – 8:30 a.m.

Ventricular Tachycardia: Ischemic and Nonischemic Cardiomyopathy and Other Unique VT Syndromes

Francis E. Marchlinski, MD, FHRS

8:30 – 9:30 a.m.

Workshop #4: SVT and VT Invasive/Noninvasive Correlation

8:30 – 8:50 a.m.

Chair: Fred Morady, MD

8:50 – 9:10 a.m.

John M. Miller, MD, FHRS

9:10 – 9:30 a.m.

Francis E. Marchlinski, MD, FHRS

9:30 – 9:45 a.m. COFFEE BREAK

9:45 – 10:45 a.m.

Wide Complex Tachycardias: Idiopathic VTs, Bundle Branch Reentry, Antidromic Tachycardias, Mechanisms, Electrocardiographic Manifestations, Invasive Assessment, and Ablation

Samuel J. Asirvatham, MD, FHRS

10:45 – 11:45 a.m.

Workshop #5: Invasive/Noninvasive Correlation

10:45 – 11:05 a.m.

Chair: Gregory F. Michaud, MD, FHRS

11:05 – 11:25 a.m.

William G. Stevenson, MD, FHRS

11:25 – 11:45 a.m.

Francis E. Marchlinski, MD, FHRS

11:45 a.m. – 12:45 p.m. LUNCH

► Session IV: Noninvasive Diagnosis and Treatment

Chair: Gregory F. Michaud, MD, FHRS

12:45 – 2 p.m.

Pharmacokinetics, Pharmacodynamics, Pharmacogenetics, and Clinical Electrophysiology of Antiarrhythmic Drugs: Parts I & II

Jeanne E. Poole, MD, FHRS

2 – 3 p.m.

Workshop #6: Electrocardiographic/Electrophysiological Correlations

2 – 2:20 p.m.

Chair: Edward P. Gerstenfeld, MD, FHRS

2:20 – 2:40 p.m.

Jeanne E. Poole, MD, FHRS

2:40 – 3 p.m.

Samuel J. Asirvatham, MD, FHRS

3 – 3:15 p.m. COFFEE BREAK

3:15 – 4 p.m.

Mechanisms, Pharmacologic, and Non-pharmacologic Treatment of Atrial Fibrillation

Edward P. Gerstenfeld, MD, FHRS

4 – 4:20 p.m.

Biophysics of Catheter Ablation

Edward P. Gerstenfeld, MD, FHRS

4:20 – 6:30 p.m.

Workshop #7: Electrocardiographic/Electrophysiological Correlations, Atrial Fibrillation, Clinical Scenarios, and Syndromes

4:20 – 4:50 p.m.

Chair: Edward P. Gerstenfeld, MD, FHRS

4:50 – 5:20 p.m.

Jeanne E. Poole, MD, FHRS

5:20 – 6 p.m.

Samuel J. Asirvatham, MD, FHRS

6 – 6:30 p.m.

Eric N. Prystowsky, MD, FHRS

6:30 p.m. ADJOURN

2017 Board Review Course in Clinical Cardiac Electrophysiology

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Saturday, August 19, 2017

7 – 7:30 a.m. CONTINENTAL BREAKFAST

▶ **Session V: Clinical Scenarios/
Device Management**

Chair: Jeanne E. Poole, MD, FHRS

7:30 – 8:30 a.m.

Device: Evaluation, Management, and
Troubleshooting

Kenneth A. Ellenbogen, MD, FHRS

8:30 – 9:45 a.m.

Workshop #8: Device Cases

8:30 – 8:55 a.m.

Chair: Kenneth A. Ellenbogen, MD, FHRS

8:55 – 9:20 a.m.

Jeanne E. Poole, MD, FHRS

9:20 – 9:45 a.m.

Samuel J. Asirvatham, MD, FHRS

9:45 – 10 a.m. COFFEE BREAK

10 a.m. – Noon

**Workshop #9: Arrhythmia Case Studies/Putting It
All Together for the Boards**

10 – 10:30 a.m.

Chair: Kenneth A. Ellenbogen, MD, FHRS

10:30 – 11 a.m.

John M. Miller MD, FHRS

11 – 11:30 a.m.

Samuel Asirvatham, MD, FHRS

11:30 a.m. – Noon

Gregory F. Michaud, MD, FHRS

Noon – 12:15 p.m. ADJOURN

Concluding Remarks/Course Adjourns

Kenneth A. Ellenbogen, MD, FHRS



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For more information and to register online, visit www.HRSonline.org/BRC17

Extend your learning

Get the complete package (*four-day Board Review Course, Board Review On Demand, and Self-Assessment and Exam Prep Online Module*) and save! Become an HRS member and save even more!

Heart Rhythm Board Review On Demand

The Heart Rhythm Society is pleased to offer the digital on-demand product to Board Review Course registrants at one-third the retail value. Heart Rhythm Board Review On Demand delivers video presentations with slides and fully synchronized audio, allowing the opportunity to re-review critical components needed to successfully complete the board certification examination, all from the convenience of your own computer. With Heart Rhythm Board Review On Demand, sessions are available online 24 hours after the live presentation has concluded, so you can continue preparing for your boards right away!

Additional features include:

- Online access from any computer or mobile device
- Downloadable tracings, PDFs and MP3 files for increased mobility
- USB drive for offline access available for an additional fee



Self-Assessment and Exam Prep in Clinical Cardiac Electrophysiology: Online Study Module

ABIM-style questions contributed by more than 60 experts in the field provide a comprehensive review and self-assessment that will prepare you for exam success. Registrants of Board Review Course receive a deep discount when purchasing this product as part of the package.

- Assess your knowledge with 100 questions which follow the ABIM exam blueprint
- Compare your initial score with those of your peers
- Identify areas of strength and weakness with scores broken out by content area
- Review your answers and receive feedback and references for further study
- Retake the 100 questions until a score of 80% or better is achieved to receive 6.75 CME/MOC credits/points
- Complete questions at your own pace — no time limit
- Log-in and out of the system as needed — your previous work will be saved

General Information

AMERICAN BOARD OF INTERNAL MEDICINE (ABIM) EXAMINATION

The ABIM will be administer certification and recertification examinations in Clinical Cardiac Electrophysiology (CCEP) on October 2, 2017. For information on the certification or recertification examinations, please contact **800-441-2246** or **215-446-3500** or visit **www.ABIM.org**

ACCREDITATION STATEMENT

The Heart Rhythm Society is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

AMA CREDIT DESIGNATION STATEMENT

The Heart Rhythm Society designates this live activity for a maximum of 29 *AMA PRA Category 1 Credits™*.

Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The AMA has determined that physicians not licensed in the United States who participate in this CME activity are eligible for *AMA PRA Category 1 Credit™*.

ABIM MAINTENANCE OF CERTIFICATION (MOC)

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 29 MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.

DISCLOSURE OF FACULTY'S COMMERCIAL RELATIONSHIP(S)

It is the policy of the Heart Rhythm Society to ensure balance, independent objectivity, and scientific rigor in all its certified educational activities. Everyone involved in the planning and participation of continuing medical education activities is required to disclose any real or apparent conflict of interest related to the content of his/her presentations and also disclose discussions of unlabeled/unapproved uses of drugs or devices during his/her presentations. In accordance with the ACCME's Standards for Commercial Support of Continuing Medical Education, all faculty and planning partners must disclose any financial relationship(s) or other relationship(s) held within the past 12 months. The Heart Rhythm Society implements a mechanism to identify and resolve all conflicts of interest prior to delivering the educational activity to learners. Detailed disclosure information will be made available prior to the activity and in the activity slides/materials.

MEMBER REGISTRATION REQUIREMENTS

To receive the member rate you must be a Heart Rhythm Society member in good standing at the time of registration. All non-members must register at the non-member rate.

To apply for membership, please visit **www.HRSonline.org/Join**. Anyone applying for membership with the Heart Rhythm Society during the Board Review Course registration period must complete his/her application packet and be approved by the Society prior to registering for the course. The Society will not reimburse the difference between the member and non-member rates for attendees who register prior to membership approval.

CANCELLATION/REFUND POLICY

All requests for cancellation of your registration for the Board Review Course must be made in written format and received by 5 p.m. Eastern Time, July 25, 2017. A **\$75.00** processing fee will be withheld. Course registration fees are non-refundable for cancellations received after 5 p.m. Eastern Time, July 25, 2017. There is no refund for "no-shows." Discount pricing shown for Board Review On Demand and the Self-Assessment/Exam Prep Online Module are only available to attendees of the live course. Cancellation of the live course will result in a change in price for these items. Written cancellations should be emailed to **tblithe@hrsonline.org**.

REGISTRATION/COURSE FEES

Registration fees for Board Review Course include all sessions, workshops, and course materials for the main course, as well as dinner on Wednesday, August 16, continental breakfasts August 17 – 19, and lunches on August 17 and 18. They do not include the Self-Assessment and Exam Prep in Clinical Cardiac Electrophysiology Online Module or Board Review On Demand. Save money by purchasing all three together at the special attendee price. Save even more by becoming a member of the Heart Rhythm Society.

PAYMENT POLICY

The Heart Rhythm Society will process and accept the following credit cards: American Express, VISA, and MasterCard. Checks submitted must be drawn on a U.S. bank in U.S. dollars and made payable to the Heart Rhythm Society. The registrant pays all fees or charges connected with payment.

Please note:

- All registration information must be complete in order to be processed.
- Wire/bank transfers are **not** accepted.

HOTEL RESERVATIONS

A block of rooms has been reserved at the Renaissance Chicago Downtown at the special meeting rate of **\$252 plus applicable tax (17.4%) per night (single/double)**. This first-come, first-served special rate is available until 5 p.m. July 25, 2017. After this date, room reservations are based on a space-and-rate-availability basis. Hotel reservations must be made through one of the registration options offered by the Heart Rhythm Society. A one-night room and tax deposit is required to secure your reservation and is refundable up until 72 hours prior to your arrival date. If you cancel your hotel reservation within 72 hours of arrival or if you are a "no-show," a one-night room and tax penalty will apply. This hotel is a non-smoking facility.

In the unlikely event that the course is cancelled, the Heart Rhythm Society is responsible only for full refund of the registration fee and not for transportation, hotel accommodations, or any miscellaneous expenses incurred by the registrant.

For more information and to register online, visit **www.HRSonline.org/BRC17**

Registration and Housing

HEART RHYTHM SOCIETY BOARD REVIEW COURSE

in Clinical Cardiac Electrophysiology

August 16-19, 2017

Renaissance Chicago Downtown

1 West Wacker Drive

Chicago, Illinois 60601

Register Online at
www.HRSONline.org/BRC17

REGISTRATION FEE CATEGORIES

Buy the Package and Save!*	Early Through July 25		After July 25	
	Member	Non-member	Member	Non-member
Premier Package <i>includes</i> 1. Live Board Review Course 2. Board Review On Demand*† 3. Board Review Online Exam Prep Module*	\$2,100	\$2,795	PACKAGE NOT AVAILABLE AFTER JULY 25	
Board Review Course <i>plus</i> Board Review On Demand*†	\$2,150	\$2,845	\$2,650	\$3,350
Board Review Course <i>plus</i> Online Exam Prep Module*	\$2,000	\$2,695	\$2,450	\$3,150
Board Review Course <i>only</i>	\$1,600	\$2,095	\$2,000	\$2,500

*Discounted pricing for Board Review On Demand and the Exam Prep Module are only available to attendees of the live course. Cancellation of the live course will result in a change in price. To order Board Review On Demand or the Exam Prep Module *without* the live course, visit: www.HRSONline.org/BRC17

†Board Review On Demand USB available for an additional fee of \$99 (includes shipping).

HOUSING FEES

Renaissance Chicago Downtown \$252 single/double + applicable taxes (17.4%)

REGISTRATION AND HOUSING

Register online at www.HRSONline.org/BRC17

REGISTRATION AND HOUSING QUESTIONS?

Email: tblithe@hrsonline.org or call +1-202-464-3443

OTHER QUESTIONS?

Email: lblaydes@hrsoline.org or call +1-202-464-3484



Heart Rhythm SocietySM

1325 G Street, NW | Suite 400 | Washington, DC 20005 | USA

Board Review Course in Clinical Cardiac Electrophysiology

August 16 – 19, 2017

Chicago, IL, USA

www.HRSONline.org

DISCLAIMER

Board Review Course provides a forum for the open exchange and discussion of research results and scientific advancements in the field of cardiovascular pacing and electrophysiology; however, the Society makes no representation or warranty as to the truth, originality, or accuracy of the information presented at the Board Review Course or in materials distributed in connection with it. Nor are the views expressed by the individual speakers necessarily the views of the Society. The Heart Rhythm Society supports the ACCME's policy on evidence-based content and encourages faculty to adhere to these standards when planning a presentation.