



*Please join us for*

# CVI's 9th Annual Echocardiography Update:

## Echocardiography in Heart Failure and Cardio Oncology

Sunday, January 15, 2017

7:00am – 4:30pm

Loews Philadelphia Hotel

1200 Market Street • Philadelphia, PA

Register by  
12/15/16 for  
**\$35**  
Registration Discount  
and **FREE** Apple  
iPad Drawing  
**215-389-2300**

8.25 CME/CEU/SDMS Credits for all  
7.25 MOC Points for physicians who certify  
through the American Board of Internal Medicine

### Course Directors:

Veronica A. Covalesky, MD

Martin G. Keane, MD

### Associate Directors:

Renee P. Bullock-Palmer, MD

Michael J. Kostal, MD

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## Why You Should Attend

CVI's 9th Annual Echocardiography Update highlights the role of echocardiography in various aspects of the management of heart failure and cardio-oncology patients.

Focus topics for our morning sessions include echo strain analysis, echo evaluation of pericardial disease and constriction, the recently released American Society of Echocardiography diastolic guidelines, echo in cardio-oncology and in the evaluation of mechanical support patients.

Our afternoon presentations focus on the role of contrast in enhancing echo image quality and diagnostic value, 3D echo, and integrative imaging comparing strain, 3D and standard echo for the assessment of left ventricular function.

Our program also includes several interactive case presentation sessions moderated by a physician – sonographer team to underscore the real world applicability of the role of echocardiography in daily clinical practice.

After attending CVI's 9th Annual Echo Update, clinicians will have a better recognition of these important topics, which are critical in effective utilization of this powerful diagnostic tool, and will be better able to utilize echocardiography to improve safety and outcomes for their patients.

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## Target Audience

Cardiologists, echocardiographers, interventional cardiologists, electrophysiologists, cardiac surgeons, anesthesiologists, emergency department physicians, hospitalists, referring physicians, fellows, residents and all physicians who care for patients with cardiovascular disease; cardiac sonographers, nurse practitioners, physician assistants and nurses participating in the care of patients with cardiovascular disease.

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## Learning Objectives

**After attending CVI's 9th Annual Echocardiography Update, attendees will be better able to:**

- Summarize underlying concepts of “strain”
- Apply strain concepts to assessment of LV systolic function
- Outline the various different pericardial diseases
- Recognize hemodynamics of pericardial constriction and translate Doppler echo and 2D echo diagnostic findings
- Describe echo strain assessment in day-to-day clinical examples
- Review cases to solidify comprehension of the use of echo in pericardial disease and constriction
- Review and report myocardial and hemodynamic basics of diastolic relaxation of the ventricle
- Update comprehensive echo assessment of diastole based on new diastolic guidelines
- List the major cardiotoxic effects of current chemotherapeutic regimens
- Apply 2D, Doppler and Strain imaging to the clinical assessment of the oncology/chemotherapy patients
- Delineate the hemodynamic support concepts underlying different support devices and application of echo in assessment and follow-up
- Recognize the multiple limitations to echo assessment posed by currently-used support devices
- Describe concepts of echo assessment of both systolic and diastolic heart failure
- Apply the latest technologies of echo in cardio-oncology in real-life examples
- Describe how contrast agents “work” through engagement with ultrasound factors and the important machine settings that contribute to effective contrast echo images
- List the indications and contraindications of commercial echo contrast agents
- Review the techniques of 3-dimensional echo assessment
- Compare and contrast the benefits and pitfalls of 3D vs. 2D echo assessment
- Delineate the ways in which echo techniques are selected and used from the “echo toolbox”
- Review concepts in echo assessment of the heart failure patient

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## Accreditation Statement

This event has been planned and implemented in accordance with the Essential Areas and Policies of the Pennsylvania Medical Society through the joint providership of the Einstein Medical Center and Cardiovascular Institute of Philadelphia. Einstein Medical Center is accredited by the Pennsylvania Medical Society to sponsor continuing medical education for physicians.

**AMA:** Einstein Medical Center designates this live educational event for a maximum of 8.25 *AMA PRA Category 1 Credit(s)*<sup>TM</sup>. Physicians should only claim credit commensurate with the extent of their participation in the educational event.

**AOA:** This program is eligible for 8.25 credits in category 2A of the American Osteopathic Association through the Pennsylvania Osteopathic Medical Association Foundation.

*Please note: physicians accrediting through AOA and AAFP will receive an AMA certificate which they may submit to their accrediting bodies.*

**SDMS:** CVI's 9th Annual Echocardiography Update: Echocardiography in Heart Failure and Cardio Oncology has been approved for 8.25 Credits by SDMS; Approval #31905.

**MOC Credits/Points:** Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 7.25 MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit. Awarding of MOC points requires additional attestation, post program evaluation and test questions.

## Course Directors

**Veronica A. Covalesky, MD FACC**  
Clinical Assistant Professor of Medicine  
Drexel University College of Medicine

**Martin G. Keane, MD, FACC FAHA FASE**  
Professor of Medicine  
Lewis Katz School of Medicine at Temple University  
Director, Echocardiography Laboratories  
Director, Echocardiography Research/Quantitative Echo  
Temple Heart and Vascular Center

## Associate Course Directors

**Renee P. Bullock-Palmer, MD FACC  
FASNC FASE FSCCT**  
Clinical Associate Professor, Division of Cardiology  
Philadelphia Osteopathic College of Medicine  
Director of Non-Invasive Cardiac Imaging  
Deborah Heart and Lung Hospital Center

**Michael J. Kostal, MD**  
Clinical Assistant Professor of Medicine  
Sidney Kimmel Medical College at  
Thomas Jefferson University  
Non-Invasive Cardiologist  
Christiana Care Cardiology Consultants

## \* Faculty

**Amr E. Abbas, MD FACC FSCAI FSVM FASE  
RPVI**  
Associate Professor of Medicine  
OU/WB School of Medicine  
Co Director, Echocardiography  
Director, Interventional Cardiology Research  
Beaumont Health, Royal Oak, MI

**Theodore P. Abraham, MD**  
Professor of Medicine, Radiology and  
Radiologic Science  
Director, Echocardiography Programs  
The Johns Hopkins University School of Medicine

**Pamela R. Burgess, ACS BS RDCS RDMS RVT  
FASE**  
Clinical Manager  
Cardiac Ultrasound & Stress Testing Lab  
Wake Forest Baptist Health Medical Center

**Vincent M. Figueredo, MD FACC FAHA**  
Professor of Medicine  
Sidney Kimmel Medical College at Thomas  
Jefferson University  
Associate Chair of Medicine  
Chief of Clinical Cardiology  
Einstein Medical Center

**Bonnie Ky, MD MSCE**  
Assistant Professor of Medicine  
Assistant Professor of Epidemiology  
Perelman School of Medicine at the University  
of Pennsylvania

**Steven J. Lester, MD FRCP(C) FACC FASE**  
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Mayo Clinic College of Medicine  
Consultant Cardiologist  
Mayo Clinic Arizona

**Pravin V. Patil, MD FACC**  
Assistant Professor of Clinical Medicine  
Lewis Katz School of Medicine at Temple University  
Associate Director  
Cardiovascular Disease Training Program  
Temple Heart and Vascular Institute

**Muhamed Saric, MD PhD FACC FASE**  
Associate Professor of Medicine  
The New York University School of Medicine  
Director, Noninvasive Cardiology  
New York University

**Frank E. Silvestry, MD FACC FASE**  
Associate Professor of Medicine  
Perelman School of Medicine at the University  
of Pennsylvania

## \* Conflict of Interest Statement

Faculty and all others who have the ability to control the content of continuing medical education activities sponsored by Einstein Medical Center are expected to disclose to the audience whether they do or do not have any real or apparent conflict(s) of interest or other relationships related to the content of their presentation(s).

## \* Acknowledgements

All commercial support in the form of educational grants and display support will be acknowledged in the syllabus, signage and verbally at the program.

The content of each presentation does not necessarily reflect the views of Einstein Healthcare Network.



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*CVI appreciates the support of the Pennsylvania Chapter of the American College of Cardiology for their partnership in this activity.*

# Program Agenda

## CVI's 9th Annual Echocardiography Update: Echocardiography in Heart Failure and Cardio Oncology

Sunday, January 15, 2017 • Loews Philadelphia Hotel

8.25 CME/CEU Credits • 7.25 MOC Points

♥=ABIM-MOC Eligible Session

### Introduction and Course Overview

<i>Martin Keane, MD</i>	7:00am – 7:15am
Updates and Opportunities From Your PA ACC <i>Vincent Figueredo, MD</i>	7:15am – 7:45am
♥ MOC Pre Test <i>Martin Keane, MD</i>	7:45am – 8:00am
♥ The Basics of Echo Strain Analysis <i>Theodore Abraham, MD</i>	8:00am – 8:45am
♥ Echo Evaluation of Pericardial Disease and Constriction <i>Mubamed Saric, MD</i>	8:45am – 9:30am
♥ Interesting Cases in the Use of Echo in Strain & Pericardial Disease <i>Pamela Burgess, ACS, BS, RDCS</i> <i>Renee Bullock Palmer, MD</i>	9:30am – 10:00am

### BREAK

**10:00am – 10:30am**

♥ New Diastolic Guidelines: What's It All About <i>Steven Lester, MD</i>	10:30am – 11:15am
♥ Cardio Oncology Practice: How I Use Echo for Patient Assessment <i>Bonnie Ky, MD</i>	11:15am – 12:00pm
♥ Echo Evaluation of Mechanical Support Patients: Pitfalls and Pearls <i>Frank Silvestry, MD</i>	12:00pm – 12:30pm
♥ Have I Got a Case For You! Echo for Assessment of Failing and Supported Hearts <i>Pamela Burgess, ACS, BS, RDCS</i> <i>Renee Bullock Palmer, MD</i>	12:30pm – 1:00pm
♥ MOC Post Test <i>Martin Keane, MD</i>	1:00pm – 1:15pm

### LUNCH

**1:15pm – 2:00pm**

♥ MOC Pre Test <i>Veronica Covallesky, MD</i>	2:00pm – 2:15pm
♥ Utilization of Contrast for Enhanced Ventricular Evaluation in Heart Failure <i>Amr Abbas, MD</i>	2:15pm – 3:00pm
♥ 3D Echo Evaluation of Left Ventricular Function <i>Pravin Patil, MD</i>	3:00pm – 3:30pm
♥ Integrative Imaging Assessment of Left Ventricular Function by Strain, 3D and Standard Echo <i>Michael Kostal, MD</i>	3:30pm – 4:00pm
♥ MOC Post Test <i>Veronica Covallesky, MD</i>	4:00pm – 4:15pm

### Review and Closing

<i>Veronica Covallesky, MD</i>	4:15pm – 4:30pm
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To register, visit [cvphiladelphia.org](http://cvphiladelphia.org)

# Registration Form

## Registration Fees

Be an early bird ... sign up and pay your registration by December 15, 2016 and take \$35 off your registration fee!

- Physicians and Industry: \$410  
(*\$375 early bird by 12/15/16*)\*
- Sonographers, Mid-Level Providers, Nurses, Fellows, Residents: \$235  
(*\$200 early bird by 12/15/16*)\*\*

\*\*Price reflects discount of \$10 for payment by cash/check. Please add \$10 for Visa/MC/AMEX.

## Syllabus

Several days prior to the program, syllabi including presentations will be available for download from a secure website. At registration you will receive a USB storage device with the same information at no additional charge.

At the conference, neither printers nor electrical outlets are available for attendee use.

Hard copy black & white syllabus including presentations may be ordered in advance for \$50, and available at registration. **Hard copy syllabi must be ordered by December 30, 2016.** Additional printed syllabi not available onsite.

**Faculty PowerPoint presentation handouts are for the use of course attendees only pre and post-conference. This material may not be used, shared or distributed electronically.**

## \*\*FREE Apple iPad Drawing Details

In order to be entered into the FREE Apple iPad 2 Drawing, you must:

- Register and pay for CVI's 9th Annual Echocardiography Update by 5:00pm EST on Thursday, December 15, 2016
- Submit your fully completed online program evaluation for CVI's 9th Annual Echocardiography Update by 5:00pm EST on Thursday, February 9, 2017
- And you are entered to win... *It's as easy as that!* Winner will be contacted via email.

Register online: [cvphiladelphia.org](http://cvphiladelphia.org)

Name \_\_\_\_\_  
Degree \_\_\_\_\_ Gender  M  F

### For MOC Points Only

Date of Birth \_\_\_\_\_ ABIM ID# \_\_\_\_\_

Clinical Position \_\_\_\_\_

Clinical Affiliation Name \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

Email Address \_\_\_\_\_

Mailing Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Is this address: Work? \_\_\_\_\_ Home? \_\_\_\_\_ Other? \_\_\_\_\_

### Important Notes:

**You MUST register by January 5, 2017 to guarantee your seat.**

Please make checks payable to:  
**Cardiovascular Institute of Philadelphia**  
P.O. Box 54632 • Philadelphia, PA 19148  
Phone: 215-389-2300 • Fax: 215-389-5450

Register online at [cvphiladelphia.org](http://cvphiladelphia.org)

### Course Registration Cancellation Policy:

Requests in writing for refunds less \$35 administrative fee by December 30, 2016, processed after the meeting. Registrations are transferable with prior notification to CVI by December 30, 2016.

Order	Early Bird Discount	Regular Price	Total
Physicians & Industry Registration	____ @ \$375 (by 12/15/16)	____ @ \$410 (after 12/15/16)	\$ _____
**ABIM MOC Points – requires additional attestation, post program evaluation and test questions	N/A	____ @ \$50	\$ _____
Sonographers, Mid-Level Providers, Nurses, Fellows, Residents	____ @ \$200 (by 12/15/16)	____ @ \$235 (after 12/15/16)	\$ _____
Hard Copy Syllabus	N/A	____ @ \$50 <b>Must order by 12/30/16</b>	\$ _____
Pay by Visa/MC/Amex	Add \$10 per registration	Add \$10 per registration	\$ _____
Apple iPad 2 Drawing Entry**	FREE		FREE
<b>Grand Total</b>			\$ _____

Visa  MC  Amex

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