



CVI's 13th Annual Echocardiography Update

Watch Live:

Session 1

Sun. Jan. 10, 2021 (3.0 Credits)

Session 2

Mon. Jan. 11, 2021 (2.75 Credits)

Session 3

Wed. Jan. 13, 2021 (2.25 Credits)

Register and
pay by 1/4/21 for
\$35 Registration
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Recorded Sessions
for Credits Too!
Through Feb. 27, 2021

Keynote Speaker

Sharon Mulvagh, MD

Professor, Division of Cardiology, Department of Medicine
Dalhousie University • Halifax, Nova Scotia



- 8.0 CME/CEU Credits for All
- 8.0 SDMS Credits for Sonographers
- 7.25 ABIM MOC Knowledge Points

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Register online: cviphiladelphia.org

Goals & Objectives

Why you should attend:

CVI's 13th Annual Echocardiography Update is the longest program of its kind in the Greater Philadelphia Region, offering a full-day's worth of accredited education program to physicians and health professionals involved in the performance and interpretation of cardiac echocardiographic diagnostic evaluation. Like all of CVI's accredited programs during the 2020-21 Academic Year, CVI Echo 2021 is transitioned to a virtual format, spread over 3 shorter sessions.

Our program features focused didactic presentations delivered by an impressive faculty of national thought leaders and regional experts. As well, several of our focus topics will be introduced with a clinical case presentation delivered by a local cardiology fellow.

Our agenda focuses on: POCUS in the Critical Care Environment and Safety and Lab Efficiency During COVID – Imaging to Diagnose and Manage Myocarditis – Echo for Diagnosis of Pulmonary Hypertension, Right Heart Failure, and Thrombo-Embolic Disease – Assessing LV Function with Contrast – Cardio Oncology – QA/QI for Echo Lab Accreditation. Our 3rd and final session is a case-based session highlighting When Echo Saves the Day – When Things Don't Go as Planned. Case topics include Percutaneous Therapeutic Options for Mitral Regurgitation – PFO Closure – Left Atrial Appendage Closure – Diastolic Stress Testing for HfPeF – Amyloidosis – Low Flow Aortic Stenosis/TAVR.

After attending CVI's 13th 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.

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.

Learning Objectives:

After attending CVI's 13th Annual Echocardiography Update, attendees will be better able to:

- Describe the uses of POCUS in critical care
- Recommend specific POCUS applications for critically ill COVID-19 patients
- Describe the key elements of safe performance of echocardiographic procedures during a pandemic
- Apply novel imaging protocols to promote efficiency and safety
- Identify the important differential diagnosis for suspected myocarditis
- Compare the unique attributes of cardiac MR tissue characterization to other imaging modalities as relates to myocarditis
- Utilize Echo-Doppler to recognize right heart size, shape, function changes in the setting of thromboembolic disease
- Recognize pulmonary vascular obstruction physiology through use of Echo Doppler
- Assess abnormalities in LV structure and function optimally using ultrasound enhancing agents
- Discuss the indications for, and the value of utilizing ultrasound enhancing agents in the assessment of LV structure and function
- Apply professional society recommendations for diagnosis and management of CV complications in oncology patients
- Describe the spectrum of cardiovascular (CV) effects of conventional and novel cancer therapeutics
- Describe the lab accreditation process and standards for quality improvement
- Improve quality and workflow in the echocardiography lab through practice improvement measures
- Recognize the Value of 3D TEE in Guiding Complex Mitral Interventions
- Describe the Role of the Interventional Imager in Navigating Unexpected Intraoperative Findings
- Describe the role of intraprocedural TEE in guiding percutaneous closure of patent foramen ovale
- Recognize the role of intraprocedural TEE in the detection and management of intraprocedural complications of percutaneous closure of patent foramen ovale
- Discuss the role of echocardiography in left atrial appendage closure
- Recognize that resting diastolic function only shows part of the picture in HFpEF
- List the benefits and pit-falls of echocardiographic and hemodynamic diastolic testing.
- Consider clinical scenarios that might result in diagnosis of cardiac amyloidosis
- Describe the role of echocardiography in diagnosing cardiac amyloidosis
- Define and classify low flow low gradient aortic stenosis
- Apply Doppler echocardiographic techniques to determine potential therapeutic options for low flow low gradient aortic stenosis

Accreditation Statement

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the Einstein Medical Center and The Cardiovascular Institute of Philadelphia (CVI). Einstein Medical Center is accredited by the Pennsylvania Medical Society to provide continuing medical education for physicians.

Credit Designation Statement

AMA: Einstein Medical Center designates this live educational event for a maximum of 8.0 *AMA PRA Category 1 Credits™*. Physicians should only claim credit commensurate with the extent of their participation in the educational event.

AOA: This program is eligible for 8.0 credits in category 2A of the American Osteopathic Association through the Pennsylvania Osteopathic Medical Association Foundation.

SDMS: CVI's 13th Annual Echocardiography Update has been approved for 8.0 credits. SDMS approval pending.

MOC Statement

Medical Knowledge MOC Credits/Points: Successful completion of this CME activity enables the participant to earn up to 7.25 Medical Knowledge 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 points. Awarding of MOC points requires additional attestation, post program evaluation and test questions.

Course Directors

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Professor of Medicine
Lewis Katz School of Medicine at Temple University
Associate Chief, Cardiovascular Medicine
Director, Echocardiography Laboratories
Director, Echocardiography Research/Quantitative Echo
Temple Heart and Vascular Institute

Veronica A. Covalesky, MD FACC

Clinical Assistant Professor of Medicine
Drexel University College of Medicine

Associate Course Directors

Renee P. Bullock- Palmer, MD FACC FASNC FASE FSCCT

Clinical Associate Professor, Philadelphia College of Osteopathic Medicine
Director, Non-Invasive Cardiac Imaging
Deborah Heart and Lung Hospital Center

Frank E. Silvestry, MD FACC FASE

Associate Professor of Medicine
Associate Chief For Education, Cardiovascular Division
Perelman School of Medicine at the University of Pennsylvania

Keynote Faculty

Sharon L. Mulvagh, MD FRCP(C) FACC FASE FAHA

Professor of Medicine
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Dalhousie University

Invited Faculty

Nana Afari-Armah, MD

Assistant Professor, Clinical Medicine
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Vice Chair for Innovation, Division of Interventional Cardiology
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Harish Jarrett, MD

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Cardiology Fellow
Deborah Heart and Lung Center

Yoav Karpenshif, MD

Cardiology Fellow
University of Pennsylvania

Jeevan Kumar, MD

Cardiology Fellow
Temple University

Benedicte Lefebvre, MD

Cardiology Fellow
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 the Pennsylvania Medical Society are expected to disclose to the audience whether they do or do not have any real or apparent conflict(s) of interest or other relationship(s) related to the content of their presentation(s).

Acknowledgement

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

Live Webinar Agenda

CVI's 13th Annual Echocardiography Update
8.0 CME/CEU/SDMS Credits for All • 8.0 SDMS Credits for Sonographers
7.25 ABIM Medical Knowledge MOC Points

Session 1 – Sunday, January 10, 2021 (3.0 Credits)

Introduction and Overview

Martin Keane, MD 8:00am–8:15am

♥ Fellow Case Presentation: POCUS

Yoav Karpenshif, MD 8:15am–8:30am

♥ POCUS in the Critical Care Environment in the Age of COVID

Cameron Baston, MD 8:30am–9:00am

♥ Laboratory Efficiency and Safety in the COVID-19 Age

James Kirkpatrick, MD 9:00am–9:30am

♥ Fellow Case Presentation: Multi-Modality Imaging for the Diagnosis and Management of Myocarditis

Erik Schelbert, MD 9:30am–10:00am

♥ Fellow Case Presentation: Pulmonary Hypertension

Jeevan Kumar, MD 10:00am–10:15am

♥ Echo Evaluation of Pulmonary Hypertension and Right Heart Failure in Acute and Chronic Thromboembolic Disease

Paul Forfia, MD 10:15am–10:45am

♥ Q/A & Discussion

Panel 10:45am–11:00am

Session 2 – Monday, January 11, 2021 (2.75 Credits)

Introduction and Overview

Veronica Covallesky, MD 6:30pm–6:45pm

♥ Fellow Case Presentation: LV Function Assessment with Contrast

James Barrett, DO 6:45pm–7:00pm

♥ KEYNOTE PRESENTATION

Optimizing the Assessment of LV Structure and Function with Contrast

Sharon Mulvagh, MD 7:00pm–7:45pm

♥ Fellow Case Presentation: Cardio-Oncology

Benedicte LeFebvre, MD 7:45pm–8:00pm

♥ Cardio-Oncology: What Echocardiographers Need to Know

Ana Barac, MD 8:00pm–8:30pm

♥ Considering QA/QI for Echo Lab Accreditation

Pamela Burgess, RDCS 8:30pm–9:00pm

♥ Q/A & Discussion

Panel 9:00pm–9:15pm

Session 3 – Wednesday, January 13, 2021 (2.25 credits)

"When Echo Saves The Day: When Things Don't Go as Planned – Cases and Read With the Experts"

Introduction and Overview

Renee Bullock Palmer, MD 6:30pm–6:45pm

♥ Case: Percutaneous Therapeutic Options For Mitral Regurgitation

Mohamad Alkhouli, MD 6:45pm–7:00pm

♥ Echo saves the brain during unexpected event in percutaneous PFO closure

Renee Bullock Palmer, MD 7:00pm–7:15pm

♥ Case: Left Atrial Appendage Closure

Frank Silvestry, MD 7:15pm–7:30pm

♥ Q/A & Discussion

Panel 7:30pm–7:45pm

♥ Case: Diastolic Stress Testing for HfPeF

Martin Keane, MD 7:45pm–8:00pm

♥ Echocardiography in Amyloid Disease: Going Beyond "Starry Skies"

Nana Afari-Armah, MD 8:00pm–8:15pm

♥ Stenotic Fake Out – Issues with Low Flow AS/TAVR

Harish Jarrett, MD 8:15pm–8:30pm

♥ Q/A & Discussion

Panel 8:30pm–8:45pm

Recorded Sessions for Credits thru 2/27/21

CVI is taking our accredited CME/CEU/SDMS/VOICE programs online — and we invite you to join us!

Until there is wide distribution of a safe and effective vaccine for COVID-19, CVI's catalogue of accredited programs will be offered virtually, online.

To make our accredited programs more user friendly, agendas are broken up into several shorter segments (2.25–3.0 credits per session.)

There are 2 easy ways to earn your credits:

- Watch programs **live** with hundreds of other health professionals
- Or watch the recorded proceedings on demand, at your convenience, for 45 days after the program (until 2/27/21 for CVI Echocardiography 2021)
- All presentations have start and end codes which need to be included on program evaluation to claim credits
- If watching recorded proceedings, an **additional** quiz is also required
- Either format — you **must** register to receive a unique link to view the program

CVI's Online CME/CEU/SDMS/VOICE/MOC Programs offer you:

- Relevant, timely, interesting topics
- Nationally recognized thought leader faculties
- Registration fees discounted from in-person programs
- Early-bird discounts for those registering by 1/4/21
- And our FREE Apple iPad drawing!

For more information, accreditation requirements and a calendar of all of our accredited programs, please visit us online at cviphiladelphia.org.



Look for these upcoming accredited CVI CME/CEU/SDMS/ VOICE/MOC programs

**Watch Live with Hundreds of Physicians
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Or watch on-demand for 45 days post-program
to earn credits too! Or mix and match live
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**Dates
Just
Added!**

CVI's 10th Annual EP/Arrhythmia Update

Sunday, February 21, 2021

Monday, February 22, 2021

Wednesday, February 24, 2021

CVI's 5th Annual Fellows Program in Interventional Cardiology*

Winter-Spring 2021

CVI's 17th Annual Update in Nuclear Cardiology

Spring 2021

Visit us online at our **NEW** website – cvphiladelphia.org



*Not accredited

Registration Form

Registration Fees

Be an early bird ... sign up and pay your registration by Mon. Jan. 4th and **SAVE \$35 off your registration fee!**

- Physicians and Industry: **\$164** by 1/4/21; **\$199** after 1/4/21*
- Technologist, Mid-Level Provider, Nurses, Fellows, Residents: **\$75** by 1/4/21; **\$110** after 1/4/21*

*Prices above reflect discount of \$6 for payment by cash or check. Please add \$6 for a Visa/MC/AMEX payment

LIVE Zoom CME Webinars

Session 1

Sunday, 1/10/21
8:00am - 11:00am

Session 2

Monday 1/11/21
6:30pm - 8:45pm

Session 3

Wednesday 1/13/21
6:30pm - 8:45pm

Recorded Sessions for Credits

Through 2/27/21

- 8.0 Echo Specific CME/CEU Credits
- 8.0 SDMS Credits
- And 7.25 ABIM Medical Knowledge MOC Points for Physicians who certify through ABIM

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Important Notes:

You MUST register in advance to attend the sessions. Register online at cviphiladelphia.org

Please make checks payable to:
Cardiovascular Institute of Philadelphia
P.O. Box 56598 • Philadelphia, PA 19111
Phone: 215-389-2300 • Fax: 215-389-5450

Course Registration Cancellation Policy:

Requests in writing for refunds, less \$35 administrative fee, by January 4, 2021 processed after the meeting. Registrations are transferable with prior notification to CVI by January 4, 2021.

Order	Early Bird Discount	Regular Price	Total
Physicians & Industry Registration	____ \$164 (by 1/4/21)	____ \$199 (after 1/4/21)	\$ _____
ABIM MOC Points – requires additional attestation, post program evaluation and test questions	N/A	---- @ \$50	\$ _____
Technologists, Mid-Level Providers, Nurses, Fellows, Residents	---- @ \$75 (by 1/4/21)	---- @ \$110 (after 1/4/21)	\$ _____
Pay by Visa/MC/Amex	Add \$6 per registration	Add \$6 per registration	\$ _____
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FREE Apple iPad Drawing

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

- Register and pay for CVI's 13th Annual Echocardiography Update by 5:00pm on Monday, January 4, 2021.
- Submit your fully completed online program evaluation for CVI's 13th Annual Echocardiography Update by 5:00pm on Monday January 25, 2021.
- And you are entered to win... **It's as easy as that!** Winner will be contacted via email.