



How-To Navigate Your Learning Gateway

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Getting Started

To access your courses, click on Past, Current or Upcoming Events.

[Past Events](#) [Current Events](#) [Upcoming Events](#) [Certificates](#) [My Orders](#)

Mayo Clinic Echocardiography Review Course for Boards and Recertification
April 27 - 30, 2019

Order Number: 3037853
Registration Date: February 25th, 2019 at 2:23PM
Registration Amount: \$750.00

Successful completion of this program provides:
AMA PRA Category 1: 30.5 Hours
MOC: 30.5 Hours

[Event Dashboard](#) [Event Materials](#) [Receipt](#) [Invoice](#) [Confirmation Letter](#)

Event Dashboard

Click on Event Dashboard to view your product, purchase details, resources tab and evaluation.

Event Dashboard
Mayo Clinic Echocardiography Review Course for Boards and Recertification
April 27 - 30, 2019

Order Details

Order Number: 3037853
Registration Date: February 25, 2019 at 2:15PM
Registration Amount: \$750.00

Successful completion of this program provides:
AMA PRA Category 1: 30.5 Hours
MOC: 30.5 Hours

[Receipt](#) [Invoice](#) [Confirmation Letter](#)

Evaluation

Evaluation Form Unavailable

Event Materials

Or click on Event Materials to directly view the general materials affiliated with the course.

[Past Events](#) [Current Events](#) [Upcoming Events](#) [Certificates](#) [My Orders](#)

Mayo Clinic Echocardiography Review Course for Boards and Recertification
April 27 - 30, 2019

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MOC: 30.5 Hours

[Event Dashboard](#) [Event Materials](#) [Receipt](#) [Invoice](#) [Confirmation Letter](#)

You can download all of the affiliated PDF materials by pressing the “Download All Materials” button.

Note: The “Download All Materials” button will be available after the last day of the live course with any notes you have taken in the presentations.

Event Materials

Mayo Clinic Echocardiography Review Course for Boards and Recertification
April 27 - 30, 2019

Resources

Event Materials

[Download All Materials](#)

General Materials

- Friday, March 22, 2019
- Saturday, March 23, 2019
- Sunday, March 24, 2019

General Info

- Syllabus Instructions
- Disclosure Summary

View Presentation

Under the Event Materials, you can follow along with the presentation by viewing the PDFs, PowerPoints, or other affiliated materials.

Event Materials

Mayo Clinic Echocardiography Review Course for Boards and Recertification
April 27 - 30, 2019

Event Materials

General Materials

SATURDAY, APRIL 27, 2019

SUNDAY, APRIL 28, 2019

MONDAY, APRIL 29, 2019

TUESDAY, APRIL 30, 2019

SUNDAY, APRIL 28, 2019

7:00 am

Continental Breakfast

Echocardiography in Valvular Heart Disease I

7:30 am

Aortic Valve Stenosis
Vuyisile Nkomo, MD

Presentation

View Presentation

Event Materials

Materials

General Materials

General Info

A Comprehensive Overview of Cardiac Tumors and Masses - Video
Kyle W. Klarich, M.D.

FAQs

Frequently Asked Questions

A Comprehensive Overview of Cardiac Tumors and Masses - PDF
Kyle W. Klarich, M.D.

Watch Video

Open File

Open File


Open File

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Take & Print Notes

Take individual notes on each presentation slide or PDF page. You can toggle between the bottom view and side view to take notes the way you prefer. Press save after completing your note before moving onto the next slide/page, otherwise, the notes auto save after a few seconds.

[Back](#)



DEPARTMENT OF CARDIOVASCULAR MEDICINE

INFECTIVE ENDOCARDITIS

Ratnasari Padang, MBBS (Hons1), Ph.D.

ECHOCARDIOGRAPHY REVIEW COURSE

for Boards and Recertification

Course Directors
Garvan C. Kane, M.D., Ph.D.
Jae K. Oh, M.D.

Rochester, MN
April 27, 2019

1 / 69 00:00 / 00:00

[< PREV](#) [NEXT >](#)

OUTLINE

1. INFECTIVE ENDOCARDITIS

2. ...

3. Q. Which patient with IE has the highest risk of septic embolization?

4. Q. 47 F with Marfan, mechanical AVR + Bentall 2006 for root aneurysm...

5. Q. What complication of endocarditis is the at risk of?

6. Learning Objectives

7. Talk Outline: Infective endocarditis (IE)

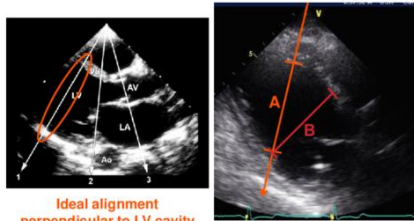
Slide 1 Notes

Normal [B](#) [I](#) [U](#) [T](#) [L](#) [F](#) [X](#)

Testing notes here.

[Back](#)

Left ventricular measurements M-mode

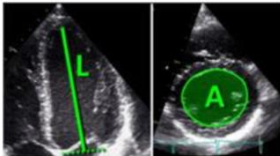


Ideal alignment perpendicular to LV cavity

Length A > Length B

Left ventricular measurements Volumes – Area-length method

- Length in apical 4-chamber
- Area in parasternal short axis
- Assumes bullet-shaped left ventricle
- Use if apical endocardial border difficult to trace



Lang RM, et al. JASE 2015; 20(1): 1-39.

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Page 7 Notes

Normal [B](#) [I](#) [U](#) [T](#) [L](#) [F](#) [X](#)

[Save Note](#)

Last Saved:

The notes you have taken are accessible for review under My Notes. They are shown by presentation titles.

MY DASHBOARD

LEARNING GATEWAY

Getting Started

Event Dashboard

Live Event Materials

Schedule

My Notes

Content Library

Post-Assessment

Assessment Results

Certificates

Faculty

Additional Materials

Event Materials

Transesophageal

Presentation

Slide: 2
This is a note

Slide: 4
Another test

View Presentation

Print Notes

Event Materials

Welcome and Program Overview

TEST PDF 2

Slide: 12
Test notes on PDF

View Document

Print Notes

Click on the slide or page number you took notes on to jump back to the individual note.

You can review or print the notes for that presentation by clicking the View Presentation or Print Notes buttons next to the presentation.

Schedule

Click on the Schedule button to see the daily schedule of the course.

MAYO CLINIC

Cardiovascular Learning Gateway

MY DASHBOARD

TEST USER

LEARNING GATEWAY

Event Dashboard

Live Event Materials

Schedule

My Notes

Content Library

Pre-Assessment

Assessment Results

Event Schedule

Mayo Clinic Echocardiography Review Course for Boards and Recertification

April 27 - 30, 2019

SATURDAY, APRIL 27, 2019

6:30 a.m. Registration and Continental Breakfast

7:30 a.m. Welcome and Course Overview

7:45 a.m. Online Practice Exam and Evaluation
Garvan Kane, MD, PhD

8:00 a.m. NBE Exam Format and Overview
Garvan Kane, MD, PhD

8:30 a.m. Fundamentals of Echocardiography
Moderator: Garvan Kane, MD, PhD
Transthoracic Quantitation of LV Diastolic Function
Michael Cullen, MD

Content Library

Under the Content Library, you can view the presentations by category and the associated subcategories.

The screenshot shows the Mayo Clinic Cardiovascular Learning Gateway interface. The left sidebar contains a navigation menu with the following items: MY DASHBOARD (TEST USER), LEARNING GATEWAY (with a sub-menu: Event Dashboard, Live Event Materials, Schedule, My Notes, **Content Library**, Pre-Assessment, Assessment Results, Certificates, Faculty), and CONTINUING EDUCATION. The 'Content Library' item is highlighted with a red rectangular box. The main content area is titled 'Course Content' and 'Mayo Clinic Echocardiography Review Course for'. It features a section 'Learning Materials by Track' with a list of topics under 'Fundamentals of Echocardiography': Transthoracic Quantitation of LV Dimensions, Volume, and EF (M-Mode, 2-D, and 3-D Echocardiography), Transesophageal Echocardiography Including 3D Echocardiography, Doppler and Color Flow Imaging for Non-Invasive Hemodynamics, Contrast Echocardiography: What You Need to Know for the Boards, Contrast Echo Cases, Evaluation of Diastolic Function: The Basics, Diastolic Dysfunction: Advanced Principles and Diastolic Stress Test, Physics in Practice: Illustrative Cases, Myocardial Velocity and Strain Imaging, and Echocardiography in the Patient with Atrial Fibrillation. At the bottom of the sidebar are links for 'My Profile' and 'Contact Us'.

Here you will find the recorded video presentation, PowerPoint presentation, recorded audio only presentation, Q&A section, Take Aways, and additional materials such as the PDF format of the presentation, articles and guidelines affiliated with the presentation.

Note: The current live course video and audio will appear within one week of the last day of the live course.

This screenshot displays the 'Learning Materials by Track' page for the 'Fundamentals of Echocardiography' track. The page lists several topics: Transthoracic Quantitation of LV Dimensions, Volume, and EF (M-Mode, 2-D, and 3-D Echocardiography), Transesophageal Echocardiography Including 3D Echocardiography, Doppler and Color Flow Imaging for Non-Invasive Hemodynamics, Contrast Echocardiography: What You Need to Know for the Boards, and Contrast Echo Cases. A navigation bar at the top of the content area includes icons and labels for Video, Slides, Audio, Q&A, Take Aways, and Additional Materials. Below the navigation bar, there is a profile picture of Michael Cullen, a man in a suit and tie, with his name 'Michael Cullen' displayed next to it.

How-to Ask/View Q & A

During the live course, the Q&A button allows you to post questions to the presenter, and they will answer you in near real-time after their lecture.

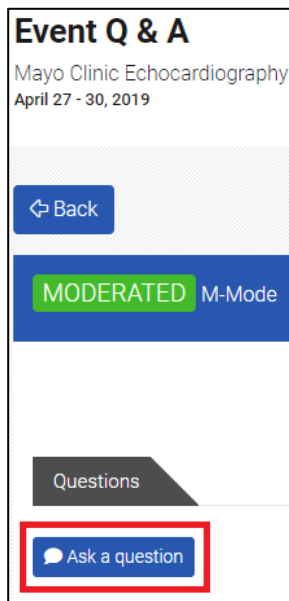
You can ask or view questions under the Live Event Materials section, as seen below.

The screenshot shows the 'Event Materials' section of a live course. On the left, there is a sidebar with a 'Download All Materials' button and a list of dates: 'General Materials', 'SATURDAY, APRIL 27, 2019', 'SUNDAY, APRIL 28, 2019' (highlighted), 'MONDAY, APRIL 29, 2019', and 'TUESDAY, APRIL 30, 2019'. The main content area is for 'SUNDAY, APRIL 28, 2019'. It lists '7:00 am Continental Breakfast' and 'Echocardiography in Valvular Heart Disease I'. Below this, it shows '7:30 am Aortic Valve Stenosis' by 'Vuyisile Nkomo, MD'. There are links for 'Submit a Question / View Questions' and 'Presentation'. In the bottom right corner, there is a 'View Presentation' button and a 'Q & A' button, which is highlighted with a red box.

Or you can ask or view questions under the Content Library section, as seen below.

The screenshot shows the 'Learning Materials by Track' section. On the left, under the heading 'Fundamentals of Echocardiography', there are two topics: 'Transthoracic Quantitation of LV Dimensions, Volume, and EF (M-Mode, 2-D, and 3-D Echocardiography)' and 'Transesophageal Echocardiography Including 3D Echocardiography'. On the right, under the same heading, there is a topic: 'Transthoracic Quantitation of LV Dimensions, Volume, and EF (M-Mode, 2-D, and 3-D Echocardiography)'. Below this topic, there is a row of icons: 'Video', 'Slides', 'Audio', 'Q & A' (highlighted with a red box), 'Take Aways', and 'Additional Materials'.

Click Ask a question to enter your question, enter your question and then press Submit.



The presenter of that section will respond as soon as possible.

You will be able to see all the questions and answers for that presentation after the lecture on your Learning Gateway under each presentation after the course is over.

Pre-Assessment

Select Pre-Assessment to practice taking the assessments. The pre-assessments will be available until the start of the live course.

The screenshot displays the Mayo Clinic Cardiovascular Learning Gateway interface. The top left features the Mayo Clinic logo and the text "Cardiovascular Learning Gateway". The main content area is divided into two columns. The left column contains a sidebar with the following sections: "MY DASHBOARD" (with "TEST USER" below it), "LEARNING GATEWAY" (with a dropdown arrow), and a list of items: "Event Dashboard", "Live Event Materials", "Schedule", "My Notes", "Content Library", "Pre-Assessment" (highlighted with a red box), and "Assessment Results". The right column is titled "Pre-Assessment" and includes the subtitle "Mayo Clinic Echocardiography Review Course for Board April 27 - 30, 2019". Below this, there is an "Assessment Overview" section. The first assessment listed is "Fundamentals of Echocardiography Pre-Assessment", which has a "Start Assessment" button and "Attempt 1" text. The second assessment listed is "Echocardiography in Valvular Heart Disease Pre-Assessment", also with a "Start Assessment" button and "Attempt 1" text.

MAYO CLINIC
Cardiovascular Learning Gateway

MY DASHBOARD
TEST USER

LEARNING GATEWAY

- Event Dashboard
- Live Event Materials
- Schedule
- My Notes
- Content Library
- Pre-Assessment**
- Assessment Results

Pre-Assessment
Mayo Clinic Echocardiography Review Course for Board
April 27 - 30, 2019

Assessment Overview

**Fundamentals of Echocardiography
Pre-Assessment**

[Start Assessment](#) Attempt 1

**Echocardiography in Valvular Heart Disease
Pre-Assessment**

[Start Assessment](#) Attempt 1

Post-Assessment

Select Post-Assessment after the live course is complete, to take the final assessment and claim MOC points. The post-assessments will be available at the end of the live course.

The screenshot displays the Mayo Clinic Cardiovascular Learning Gateway interface. The top left features the Mayo Clinic logo and the text "Cardiovascular Learning Gateway". The main sidebar on the left is titled "MY DASHBOARD" and contains sections for "GETTING STARTED" and "LEARNING GATEWAY". The "LEARNING GATEWAY" section lists several options: "Event Dashboard", "Live Event Materials", "Schedule", "My Notes", "Content Library", "Pre-Assessment", "Post-Assessment" (highlighted with a red box), and "Assessment Results". The right side of the interface is titled "Post-Assessment" and includes the text "Mayo Clinic Echocardiography Review April 27 - 30, 2019". Below this, there is a section for "Assessment Overview" and three assessment cards. The first card is for "Fundamentals of Echocardiography Post-Assessment" with a "Start Assessment" button and "Attempt 1/2" text. The second card is for "Echocardiography in Valvular Heart Disease Post-Assessment" with a "Start Assessment" button and "Attempt 1/2" text. The third card is for "Heart Failure, Cardiomyopathies, Systemic Hypertension Post-Assessment".

MAYO CLINIC
Cardiovascular Learning Gateway

MY DASHBOARD

GETTING STARTED

LEARNING GATEWAY

- Event Dashboard
- Live Event Materials
- Schedule
- My Notes
- Content Library
- Pre-Assessment
- Post-Assessment**
- Assessment Results

Post-Assessment
Mayo Clinic Echocardiography Review
April 27 - 30, 2019

Assessment Overview

Fundamentals of Echocardiography Post-Assessment

[Start Assessment](#) Attempt 1/2

Echocardiography in Valvular Heart Disease Post-Assessment

[Start Assessment](#) Attempt 1/2

Heart Failure, Cardiomyopathies, Systemic Hypertension Post-Assessment

Assessment Results

Under the Assessment Results you can view all the categories for the course and their pre and post-assessments along with the scores and recommended course content for studying.

You only have two attempts to pass the post-assessments at 80% or higher in order to claim MOC points.

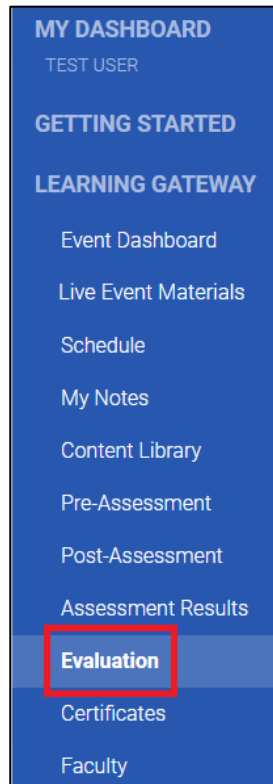
You can also take the course evaluation by clicking on the Take Course Evaluation button.

The image shows a user interface for the Mayo Clinic Echocardiography Review Course. On the left is a blue sidebar with navigation links: My Notes, Content Library, Pre-Assessment, Post-Assessment, **Assessment Results** (highlighted with a red box), Evaluation, Certificates, and Faculty. The main content area is titled "Exam Results" and includes the course name "Mayo Clinic Echocardiography Review Course for Boards and Recertification" and the date "April 27 - 30, 2019". Below this is a "Results by Track" section with a table of tracks and their assessment scores. The table has two columns: "Tracks" and "Pre-Assessment". The tracks listed are "Fundamentals of Echocardiography", "Echocardiography in Valvular Heart Disease", "Heart Failure, Cardiomyopathies, Systemic and Coronary Diseases", and "Echocardiography in Congenital Heart Disease". The Pre-Assessment scores are all 50.0%. There are buttons for "Try Again" and "Start Assessment" (Attempt 1/2). A "Take Course Evaluation" button is also present. A legend indicates that green represents "Correct" and grey represents "Incorrect". At the bottom, there is a "Recommended Course Content" section with a link to "M-Mode Review".

Tracks	Pre-Assessment	Score	Attempts
Fundamentals of Echocardiography	50.0%	50.0%	(1/2)
Echocardiography in Valvular Heart Disease	50.0%	50.0%	(1/2)
Heart Failure, Cardiomyopathies, Systemic and Coronary Diseases	50.0%	50.0%	(1/2)
Echocardiography in Congenital Heart Disease	50.0%	50.0%	(1/2)

Evaluation

Evaluate the course and the presenters by clicking on the Evaluation button in the left menu.



Evaluations contain questions about the course and *individual* presenters. Click Save and Continue to complete each section. Click Submit My Evaluation when you have completed all the section.

The screenshot shows a 'Course Evaluation' form. At the top, it says 'Mayo Clinic Echocardiography Review Course for B' and 'April 27 - 30, 2019'. A modal box is open with the question 'I would recommend this activity to others:' and two radio button options: 'Yes' (selected) and 'No'. Below the modal is a 'Save and Continue' button. The main form has a blue header 'Review Your Evaluation', a 'Submit My Evaluation' button, and a light blue footer with 'Course Evaluation' and a 'Go Back' link.

Click the Go Back button to edit your responses before submitting.

The evaluations you give regarding the course and the presenters are critical to the success of the course, and are used to improve the experience of the learners. Please take the time to fill out the evaluation.

You can claim CME credits after completing the course evaluation.

Course Evaluation Complete

Mayo Clinic Echocardiography Review Course for E
April 27 - 30, 2019

Thank You!

Certificates Available

[Claim Credits](#)


Claiming CME/MOC – View Certificate(s)

To view your CME credits or MOC points, click on Certificates in the left navigation menu and Claim Credit/Hours after completion of the evaluation and/or post-assessment(s).

The screenshot shows the Mayo Clinic Cardiovascular Learning Gateway interface. On the left is a blue navigation menu with the Mayo Clinic logo and 'Cardiovascular Learning Gateway' text. The menu includes 'MY DASHBOARD', 'LEARNING GATEWAY' (with a sub-menu arrow), and 'Certificates' (highlighted with a red box). The 'LEARNING GATEWAY' sub-menu lists: Getting Started, Event Dashboard, Live Event Materials, Schedule, My Notes, Content Library, Post-Assessment, Assessment Results, and Faculty. The main content area is titled 'Certificates' and 'Mayo Clinic Echocardiography Review Course for Boards and Recertification April 27 - 30, 2019'. It features a blue header 'Event Certificates'. Below this, a red banner states 'You have 2 Unclaimed Certificates Available'. A card for the 'Mayo Clinic Echocardiography Review Course for Boards and Recertification (April 27th - April 30th, 2019)' contains two buttons: 'Claim AMA PRA Category 1' and 'Claim MOC', both highlighted with a red box. A green banner below states 'You have claimed 0 Certificates'. A message at the bottom says 'You currently have no certificates claimed.' The footer on the right says '© 2018 MedEd'.

For AMA Category 1 CME credits, you have to fill out the number of hours you attended the course before claiming your credits.

The screenshot shows a modal window titled 'Mayo Clinic Echocardiography Review Course for Boards and Recertification'. It instructs the user to 'Enter the amount of credit you are claiming below and click "Claim & View Certificate"'. The form is for 'AMA Category 1' and lists four dates with input fields for 'Hours Claimed' and maximum values in parentheses: 2019-04-27 (0/8.5 max), 2019-04-28 (0/9.75 max), 2019-04-29 (0/8.25 max), and 2019-04-30 (0/4.0 max). A yellow warning box states: 'You must update your credit amount before claiming your certificate, otherwise they will not display properly on the certificate.' A blue button at the bottom is labeled 'Claim & View Certificate'.



MAYO CLINIC

Cardiovascular Learning Gateway

Certificates

Mayo Clinic Echocardiography Review Course for Boards and Recertification
April 27 - 30, 2019

MY DASHBOARD

LEARNING GATEWAY

- Getting Started
- Event Dashboard
- Live Event Materials
- Schedule
- My Notes
- Content Library
- Post-Assessment
- Assessment Results
- Certificates**

Event Certificates

You have 1 Unclaimed Certificates Available

Mayo Clinic Echocardiography Review Course for Boards and Recertification
(April 27th - April 30th, 2019)

[Claim MOC](#)

You have claimed 1 Certificates

Mayo Clinic Echocardiography Review Course for Boards and Recertification
(April 27th - April 30th, 2019)

AMA PRA Category 1 [View Certificate](#) [Update/Claim Hours](#)
Claimed On: 2019-07-16

You have to enter your diplomate number and date of birth in your profile before claiming MOC points.

MOC Unavailable

Reason: Please enter your diplomate number and date of birth in your profile.

Certificates

Faculty

CONTINUING EDUCATION

[My Profile](#)

[Contact Us](#)

[Cart](#)

[Log Out](#)

Date of Birth:

January

1

1975

Diplomate Number: The Diplomate Number is collected for ABIM Maintenance of Certification point submission.


[Find my diplomate number](#)

123456

Category	Credit Available	Credit Claimed	Date Claimed
Fundamentals of Echocardiography	Hours: 8.5	No credit available	
Echocardiography in Valvular Heart Disease	Hours: 9.75	Start Assessment	
Heart Failure, Cardiomyopathies, Systemic and Coronary Diseases	Hours: 8.25	Start Assessment	
Echocardiography in Congenital Heart Disease	Hours: 4.0	Claim 4.0 Hours	

✓ You have claimed 1 Certificates


Category	Credit Available	Credit Claimed	Date Claimed
Fundamentals of Echocardiography	Hours: 8.5	No credit available	
Echocardiography in Valvular Heart Disease	Hours: 9.75	Start Assessment	
Heart Failure, Cardiomyopathies, Systemic and Coronary Diseases	Hours: 8.25	Start Assessment	
Echocardiography in Congenital Heart Disease	Hours: 4.0	Claim 4.0 Hours	



**Claim 4.0 MOC credits for
Echocardiography in Congenital
Heart Disease**

[Continue](#) [Cancel](#)

Mayo Clinic Echocardiography Review Course for Boards and Recertification
(April 27th - April 30th, 2019)
AMA PRA Category 1
Claimed On: 2019-07-16



Cardiovascular Learning Gateway

Certificates

Mayo Clinic Echocardiography Review Course for Boards and Recertification
April 27 - 30, 2019

MY DASHBOARD

Getting Started

Event Dashboard

Live Event Materials

Schedule

My Notes

Content Library

Post-Assessment

Assessment Results

Certificates

Event Certificates

✓ You have claimed 2 Certificates

Mayo Clinic Echocardiography Review Course for Boards and Recertification
(April 27th - April 30th, 2019)

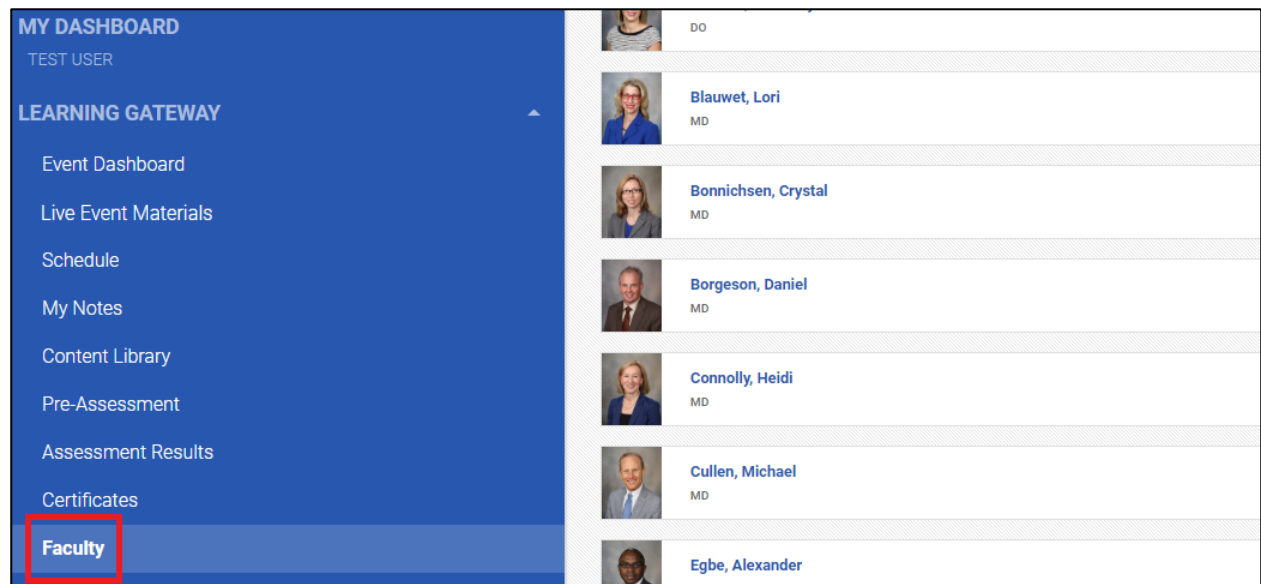
MOC [View Certificate](#) [Update/Claim Hours](#)
 Claimed On: 2019-07-16
 Breakdown:
 Fundamentals of Echocardiography: 0
 Echocardiography in Valvular Heart Disease: 0
 Heart Failure, Cardiomyopathies, Systemic and Coronary Diseases: 0
 Echocardiography in Congenital Heart Disease: 4.0

AMA PRA Category 1 [View Certificate](#) [Update/Claim Hours](#)
 Claimed On: 2019-07-16

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View Faculty

View the faculty of the course by selecting Faculty. You can see the faculty affiliated presentations by clicking on their name and presentation.



MY DASHBOARD	
TEST USER	
LEARNING GATEWAY	
Event Dashboard	
Live Event Materials	
Schedule	
My Notes	
Content Library	
Pre-Assessment	
Assessment Results	
Certificates	
Faculty	

	DO
	Blauwet, Lori MD
	Bonnicksen, Crystal MD
	Borgeson, Daniel MD
	Connolly, Heidi MD
	Cullen, Michael MD
	Egbe, Alexander

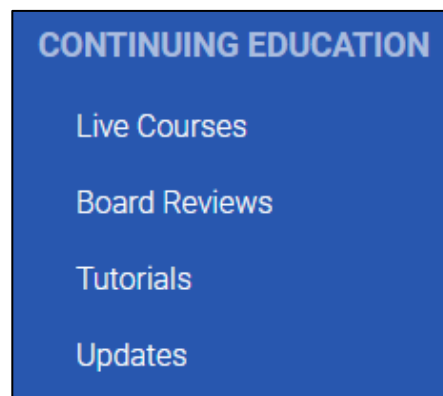


	Geske, Jeffrey MD
	Hemodynamic Workshop
	Hypertrophic Cardiomyopathy: Echocardiographic Diagnosis

You can also select their name to view their Mayo Clinic biography.

Home Page

To navigate back to Mayo Clinic Cardiovascular Education offerings, click on Continuing Education. You can view other live courses, board review offerings, tutorials on specialty topics, and updates to stay up to date on the latest practices.



CONTINUING EDUCATION
Live Courses
Board Reviews
Tutorials
Updates

Thank you for participating in Mayo Clinic Cardiovascular Education. Please visit cveducation.mayo.edu for additional information and to view further Mayo Clinic cardiovascular education offerings.

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