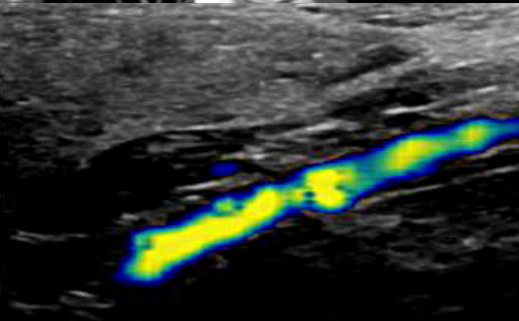
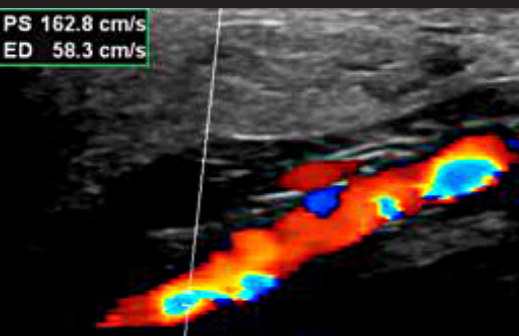


2015

Preceptorship in Carotid Ultrasound Interpretation



March 2-6, 2015
June 22-26, 2015
August 31-September 4, 2015
November 30-December 4, 2015

Please call (216) 636-0318 for more information

**Cleveland Clinic Heart and Vascular Institute
Noninvasive Vascular Laboratory
Cleveland, Ohio**

(class size is limited to 6 participants)

**Course Information is Available at:
www.ccfcmc.org/carotid15**

- **Extensive Case Review**
- **Core Curriculum Lectures**
- **Hands-on Training**
- **Mentored Interpretation Sessions**

Overview **Preceptorship** in Carotid Ultrasound Interpretation

This intensive 4½ day program will train the participant to interpret carotid duplex ultrasound examinations through a series of activities, including: didactic lectures, preceptored interpretation sessions with staff physicians of the Cleveland Clinic Noninvasive Vascular Laboratory, hands-on scanning sessions, and review of an extensive library of programmed learning cases with angiographic correlations. By the end of the week, the participant will have interpreted approximately 125 carotid duplex ultrasound examinations. Enrollment will be limited to 5 participants per session to allow for ample opportunity for interaction and direct mentorship from course faculty.

At the end of the course, participants will receive documentation of their experience, including the number of examinations interpreted during the week. This documentation may be used toward application for vascular laboratory accreditation and/or physician certification in vascular testing (e.g. RPVI examination).

Participants are encouraged to prepare for their intensive week in the Cleveland Clinic Noninvasive Vascular Laboratory with a series of focused reading assignments which will be sent to participants prior to arrival in Cleveland.

Course Objectives

- Review cerebrovascular anatomy.
- Identify required elements of the carotid duplex ultrasound examination.
- Identify key elements of a high quality lab program, including written study protocols, validated diagnostic criteria, thorough diagnostic reports, quality assurance initiatives and laboratory accreditation and physician and technologists certification.
- Master interpretation of carotid duplex ultrasound studies for both common and uncommon disorders through extensive mentored interpretation.
- Recognize when additional neuroimaging is indicated to further characterize and diagnose disease.
- Recognize commonly used diagnostic criteria for internal carotid artery stenosis.
- Review indications for revascularization of carotid artery stenosis and therapeutic options for revascularization (endarterectomy vs. carotid stenting).
- Recognize manifestations of cardiac disorders that may be seen on carotid Doppler waveforms.

Target Audience

- Cardiologists
- Neurologists
- Radiologists
- Vascular medicine physicians
- Vascular surgeons

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 the Noninvasive Vascular Laboratory at (216)-636-0318 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 34.25 *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 for Category 2 credit.

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.

Faculty

Preceptorship in Carotid Ultrasound Interpretation

Course Director

Heather Gornik, MD, RVT, RPVI
Cleveland Clinic, Cleveland OH
gornikh@ccf.org

Course Tech Director

Sandra Yesenko, BA, RVT, RDMS
Cleveland Clinic, Cleveland OH
yesenks@ccf.org

Faculty

Christopher Bajzer, MD
Natalie Evans, MD, RPVI
Natalia Fendrikova-Mahlay, MD, RPVI
Leslie Gilbert, MD, RVT, RPVI
Marcelo Gomes, MD, RPVI

Alia Grattan, RT, RDMS, RVT
Douglas Joseph, DO, RVT
Soo Hyun (Esther) Kim, MD, RPVI
Kate MacDonald, RVT
Larry Raber, RTR, RDMS, RVT
Tammy Rubin, RVT
Mehdi Shishehbor, DO
Kathryn Stuhler, RVT
Susan Whitelaw, RVT, RDMS, RT

Coordinator

Kathy Murdakhaev
murdakk@ccf.org

Curriculum

- Didactic sessions
- Daily hands-on scanning sessions
- Twice daily reading sessions with staff physicians of the Noninvasive Vascular Laboratory
- Review of teaching file cases with angiographic correlations
- Technology demonstrations

Lectures

- Introduction to Carotid Duplex Ultrasound
- Introduction to the Carotid Ultrasound Scan (*knobology, clinical scanning protocol, and technique*)
- Advanced Concepts and Interpretive Pitfalls
- Carotid Revascularization (Endarterectomy and Stents)
- Evaluation of Carotid Stents in the Vascular Lab
- Introduction to Transcranial Doppler
- Unusual Carotid Cases
- Running a High-Quality Vascular Lab: Tips From the Technical Director
- Certification, Accreditation
- Carotid IMT Interactive Demo and Q/A
- Mock RPVI Exam

Preliminary Agenda

Preceptorship in Carotid Ultrasound Interpretation

Monday

7:30 am	Continental Breakfast, Registration	12:30 pm	LUNCH (On your own)
8:00 am	Welcome and Introduction. Orientation to the Week, Facilities	1:30 pm	Review of Programmed Teaching File Cases with Correlations
8:30 am	Lecture: Introduction to Carotid Duplex Ultrasound	2:45 pm	BREAK
9:30 am	Lecture + Hands-on: Introduction to the Carotid Ultrasound Scan (Knobology, Clinical Scanning Protocol, and Technique)	3:00 pm	Review of Afternoon Carotid Cases with Faculty
11:00 am	BREAK	5:00 pm	Adjournment
11:15 am	Review of Morning Carotid Cases with Faculty		

Tuesday

7:45 am	Continental Breakfast	2:00 pm	Review of Programmed Teaching File Cases with Correlations
8:00 am	Observation of Live Patient Scanning in the Laboratory	2:45 pm	Heart Center and Vascular Lab Tour (Non-CME)
8:30 am	Lecture: Evaluation of Carotid Stents in the Vascular Lab	3:15 pm	BREAK
9:00 am	Lecture: Carotid Revascularization with Interactive Q & A on Stents	3:30 pm	Review of Afternoon Carotid Cases with Faculty
10:00 am	BREAK	5:00 pm	Adjournment
10:15 am	Review of Morning Carotid Cases with Faculty	6:15 pm	Social Event Local Cleveland Restaurant
12:00 pm	Working LUNCH with Review of Programmed Teaching File with Cases with Correlations (Provided)		
1:00 pm	Hands-on: Live Carotid Scanning Practice		

Preliminary Agenda

Preceptorship in Carotid Ultrasound Interpretation

Wednesday

7:30 am	Vascular Medicine Grand Rounds (Optional, CME provided separately)	3:15 pm	BREAK
8:45 am	Lecture: Advanced Concepts and Interpretive Pitfalls	3:30 pm	Review of Afternoon Carotid Cases with Faculty
9:45 am	BREAK	5:15 pm	Adjournment
10:00 am	Review of Morning Carotid Cases with Faculty		
12:00 pm	Working LUNCH with Review of Programmed Teaching File Cases with Correlations (Provided)		
2:00 pm	Hands-on: Live Carotid Scanning Practice with Model Patients		

Thursday

7:40 am	Continental Breakfast	2:30 pm	Carotid IMT Interactive Demo and Q & A
8:00 am	Lecture: Introduction to Transcranial Doppler	3:00 pm	Review of Afternoon Carotid Cases with Faculty
9:30 am	Review of Programmed Teaching File Cases with Correlations	5:00 pm	Adjournment
10:30 am	BREAK		
10:45 am	Review of Morning Carotid Cases with Faculty		
12:00 pm	LUNCH - Vascular Lab Journal Club (Optional, Non-CME)		
1:15 pm	Lecture Unusual Carotid Cases		
2:15 pm	BREAK		

Preliminary Agenda

Preceptorship in Carotid Ultrasound Interpretation

Friday

7:00 am	Heart Center Grand Rounds (Optional, CME provided separately)	11:15 am	Interpretation Skills Assessment Exercise
8:00 am	Continental Breakfast	12:00 pm	LUNCH (provided) Evaluations and Wrap-up
8:15 am	Lecture: Running a High Quality Vascular Lab Tips from the Technical Director and Interactive Q & A	1:00 pm	Session Adjourned
8:45 am	Lecture: Certification, Accreditation		
9:15 am	Lecture: Mock RPVI Exam		
9:45 am	BREAK		
10:00 am	Review of Morning Carotid Cases With Faculty		

Enrichment Opportunities

- Vascular Medicine Grand Rounds (optional)*
 - Heart Center Grand Rounds (optional)*
 - Vascular Lab Journal Club (optional/Non-CME)
 - Heart Center and Vascular Lab Tour (Non-CME)
 - Course Dinner With the Physicians and
Technologist Faculty
- *CME provided separately

Course Facility

**Cleveland Clinic Miller Pavilion
Noninvasive Vascular Laboratory
9500 Euclid Avenue - Desk J3-5
Cleveland, Ohio 44195**

For more information, including
information on accommodations, contact:

**Kathy Murdakhaev
Vascular Laboratory Education Coordinator
216-636-0318 • murdakk@ccf.org**

Fee/US Funds*

\$5,000	Physicians
\$4,000	CCF Alumni
\$3,500*	Current fellow or resident in a vascular or related training program

**Letter from program director must be received by our office prior to course to receive this fee.*

**Note: This is an intensive 4.5 day program and limited to six (6) participants per course. Fee includes two textbooks, which will be provided prior to the course start date.*

In case of cancelation, a full refund will be made if canceled 30 days prior to the start of the course with \$100 cancellation fee and the cost of the textbooks deducted from the refund. If canceled less than 30 days prior to the start of the course, cancellation fee of \$500 and the cost of the textbooks will be deducted from the refund. Written notification of your cancellation is required to process your refund.

MEALS PROVIDED

Continental breakfast each morning

Break/snacks daily

Lunch Tuesday through Friday

Evening social event dinner with faculty

Course Information is available at: www.ccfme.org/carotid15

(class size is limited to 6 participants per date)

Registration

Preceptorship in Carotid Ultrasound Interpretation



Date of the course (circle one): March 2-6, 2015
 June 22-26, 2015
 August 31-September 4, 2015
 November 30-December 4, 2015

Activity # 02010438

PLEASE PRINT

Complete the information below if registering by mail or fax:

First Name: _____ MI: _____ Last Name _____

Degree: _____ Specialty: _____

Company Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____

E-mail address: _____

Practice type: ☐ Office based ☐ Hospital ☐ Resident/Fellow ☐ Other

☐ I require a vegetarian meal

Fee:

\$5,000 Physicians

\$4,000 CCF Alumni

\$3,500* Current fellow or resident in vascular or related training program (letter from program director must be received by our office prior to course to receive this fee.)

Total amount enclosed: \$ _____

Mail: Make check payable to: **The Cleveland Clinic Educational Foundation**

Mailing Address: The Cleveland Clinic Educational Foundation
 P.O. Box 931653
 Cleveland, OH 44193-1082

Online: You can register at www.ccfcmereg.org/carodid15

For registration questions, please call **216-448-0777** or e-mail to cmeregistration@ccf.org

Cleveland Clinic Heart and Vascular Institute
Noninvasive Vascular Laboratory
Cleveland, Ohio

2015

 Cleveland Clinic

Preceptorship in Carotid Ultrasound

Interpretation



Cleveland Clinic

Non-Invasive Vascular Laboratory
9500 Euclid Ave. Desk J3-5
Cleveland, Ohio 44195