

## Register

Please complete the attached registration form and return by fax or email. The course fee includes tuition, teaching materials, continental breakfast and lunch while at Duke University Medical Center. Enrollment is limited to 70 participants. Please notify Michele Parker (919-668-1671) should a cancellation be necessary. For cancellations prior to April 15, 2024, there will be a \$50 administrative fee charged to the registrant. After April 15, 2024, the administrative fee is \$500. In the event the program is canceled or postponed, we will not be responsible for any travel costs or expenses, including cancellation/change penalties assessed by airlines, travel agencies, or hotels.

## Lodging

A list of nearby hotels is available on our website: [medicine.duke.edu/DCMRC](http://medicine.duke.edu/DCMRC)

## Registration

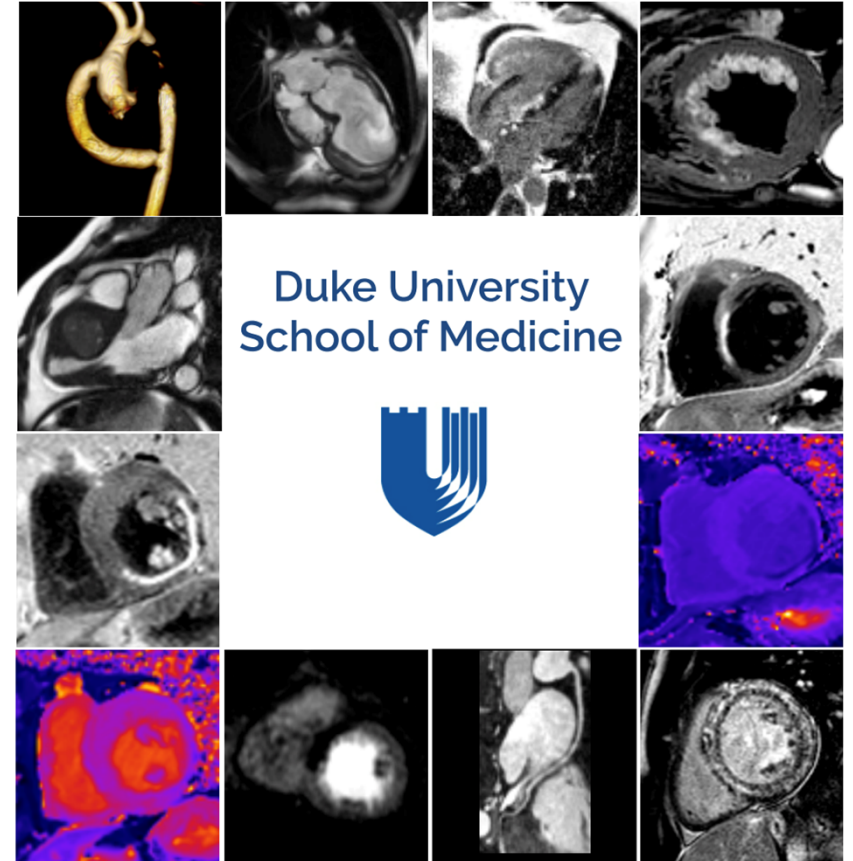
Online registration and credit card payment can be made at the DCMRC website: <https://events.duke.edu/spring2024dcmrc>

For payment by check, please mail the check and registration form to:

Duke Cardiovascular MR Center  
Duke Medical Pavilion – Room 1E57  
DUMC – 3934, Durham, NC 27710  
Phone: 919-668-1671 Fax: 919-668-3554  
Email: [michele.parker@duke.edu](mailto:michele.parker@duke.edu)

Name:		
Organization:		
Street Address:		
City:	State:	Zip:
Email:		
Phone Number:		
Medical Specialty:		
<input type="checkbox"/> MD \$3000	<input type="checkbox"/> Technologist \$2200	<input type="checkbox"/> Trainee \$1650

# Duke Cardiovascular MR Practicum and CMR Board Review Course



April 29 – May 3, 2024  
Duke Cardiovascular MR Center  
Durham, NC

**Overview:** This practicum was developed by the Duke Cardiovascular Magnetic Resonance Center (DCMRC) and is designed to provide practical instruction on cardiovascular MRI. Participation in this course fulfills SCMR Level 1 (track B) and is applicable toward SCMR Level 2 coursework requirements. The content covers the material on the Cardiovascular Magnetic Resonance Board exam ([www.apca.org](http://www.apca.org)), but is also appropriate for physicians new to the field and for technologists.

## Course Faculty

### Raymond Kim, MD

Co-director, Duke CV MR Center  
Professor of Medicine and Radiology  
Duke University

### Fawaz Alenezi, MD

Assistant Professor of Medicine  
Duke University

### Michael J. Campbell, MD

Professor of Pediatrics  
Duke University

### Anna Lisa Chamis, MD

Associate Professor of Medicine  
Duke University

### Stephen Darty, BS, RT-N, MR

CMR Technologist  
Duke University

### John Grizzard, MD

Associate Professor of Radiology  
Virginia Commonwealth University  
Medical Center

### Han Kim, MD

Associate Professor of Medicine  
Duke University

### Igor Klem, MD

Associate Professor of Medicine  
Duke University

### Wolfgang Rehwald, PhD

Adjunct Professor of Medicine  
Duke University

### Orlando Simonetti, PhD

Professor of Radiology and  
Cardiovascular Medicine  
The Ohio State University

### Joseph Mammarappallil, MD, PhD

Associate Professor of Radiology  
Duke University

### Sreekanth Vemulapalli, MD

Associate Professor of Medicine  
Duke University

### David Wendell, PhD

Research Associate, Senior  
Duke University

## Schedule Overview

### Monday, April 29<sup>th</sup>, 2024

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8:00 am – 8:30 am

**Registration**

8:30 am – 5:00 pm

**Welcome & Introductions:**

**Lectures:** Introduction to cardiovascular MR imaging; MRI safety; MRI physics - Pulse sequences and image reconstruction; Imaging sequences for cardiovascular anatomy, function, viability, perfusion, flow, and angiography; and parallel imaging techniques

### Tuesday, April 30<sup>th</sup>, 2024

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8:30 am – 5:00 pm

**Lectures:** Technical review from Day 1; Overview of the core cardiac exam and assessment of ventricular function; Motion & heart rhythm artifacts; Overview of the SCMR Registry; Assessment of myocardial viability; MR perfusion stress testing; Incidental non-cardiac findings; and Valvular heart disease assessment

### Wednesday, May 1<sup>st</sup>, 2024

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8:30 am – 5:00 pm

**Lectures:** Other imaging artifacts (wrap, metal, etc.); Role of CMR in heart failure and cardiomyopathies; Identification and differentiation of cardiac masses; Assessment of the peripheral vascular system; Evaluation of the pericardium; CMR evaluation of ARVD; CMR imaging of patients with cardiac devices; and Guidelines for CMR quantitation and post-processing

### Thursday, May 2<sup>nd</sup>, 2024

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8:30 am – 5:00 pm

**Lectures:** Assessment of the pulmonary veins; Assessment of cardiovascular hemodynamics including measurement of flow and shunts; CMR imaging of the coronary arteries; T2 and T2\* mapping; T1 mapping and ECV quantification; and Assessment of the central vascular system

**Case Review/Observation of patient cases**

### Friday, May 3<sup>rd</sup>, 2024

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8:30 am – 3:00 pm

**Lectures:** Congenital Disorders I; Congenital Disorders II; CMR assessment of hypertrophic CM; and Advanced CMR techniques

**Case Review/Observation of patient cases**