

## 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; all attendees will be required to be fully COVID-19 vaccinated. Please notify Michele Parker (919-668-1671) should a cancellation be necessary. For cancellations prior to October 1<sup>st</sup>, 2023, there will be a \$50 administrative fee charged to the registrant. After October 1<sup>st</sup>, 2023, 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](https://medicine.duke.edu/DCMRC)

## Registration

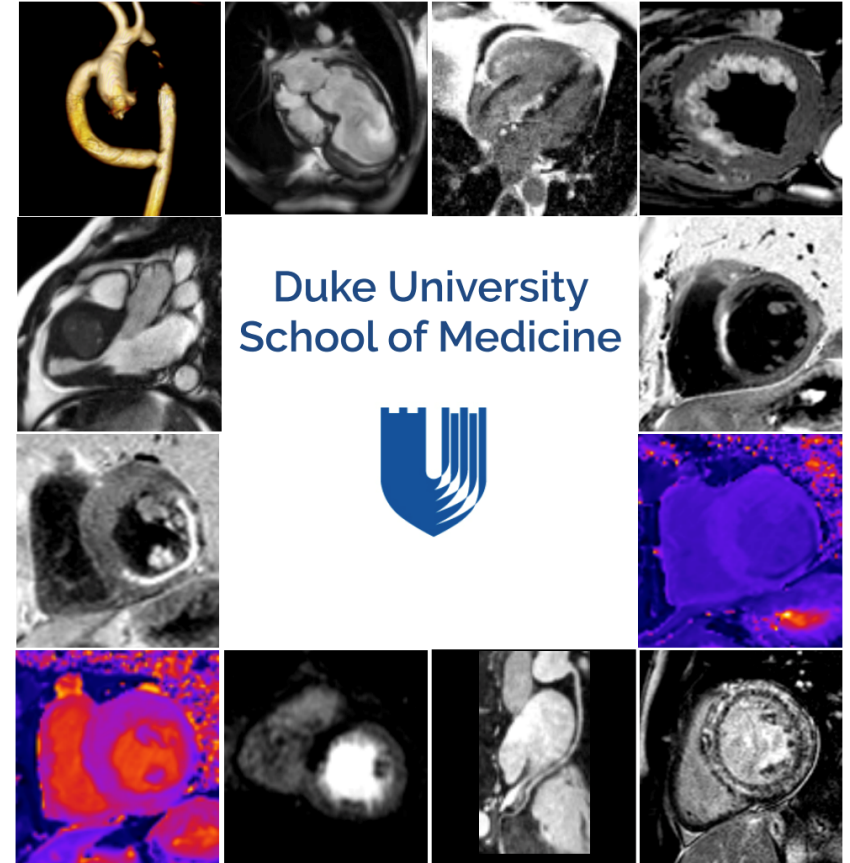
Online registration and credit card payment can be made at the DCMRC website: <https://events.duke.edu/fall2023dcmrc>

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



October 16-20, 2023  
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.

## Schedule Overview

### Monday, October 16<sup>th</sup>, 2023

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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, October 17<sup>th</sup>, 2023

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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; Assessment of myocardial viability; MR perfusion stress testing; Motion & heart rhythm artifacts; CMR imaging of the coronary arteries; and Valvular heart disease assessment

### Wednesday, October 18<sup>th</sup>, 2023

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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; Incidental non-cardiac findings; T1 mapping and ECV quantification; CMR imaging of patients with cardiac devices; T2 and T2\* mapping; and Guidelines for CMR quantitation and post-processing

### Thursday, October 19<sup>th</sup>, 2023

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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 evaluation of ARVD; Identification and differentiation of cardiac masses; Assessment of the peripheral vascular system; Evaluation of the pericardium; and CMR assessment of hypertrophic CM

**Case Review/Observation of patient cases**

### Friday, October 20<sup>th</sup>, 2023

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8:30 am – 3:00 pm

**Lectures:** Congenital Disorders I; Congenital Disorders II; Assessment of the central vascular system; and Advanced CMR techniques

**Case Review/Observation of patient cases**

#### 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

#### Robert Judd, PhD

Professor Emeritus of Medicine  
Duke University

#### 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

#### Tina Taylor, MD

Associate Professor of Radiology  
Duke University

#### Sreekanth Vemulapalli, MD

Assistant Professor of Medicine  
Duke University

#### David Wendell, PhD

Research Associate, Senior  
Duke University