

## Learner Notification

**Society for Cardiovascular Magnetic Resonance**

**CMR Board Exam Review Course**

**Format (Online Live, Online In-Person, Enduring, etc.) Online Virtual Webinar**

**Meeting Dates Live: 20-21 April 2024**

**Meeting Location: Virtual**

### **Acknowledgement of Financial Commercial Support**

No financial commercial support was received for this educational activity.

### **Acknowledgement of In-Kind Support**

No financial commercial support was received for this educational activity.

### **Satisfactory Completion**

Learners must complete an evaluation form to receive a certificate of completion. Your chosen sessions must be attended in their entirety. Partial credit for individual sessions is not available. If you are seeking continuing education credit for a specialty not listed below, it is your responsibility to contact your licensing/certification board to determine course eligibility for your licensing/certification requirement.

### **Stated Practice Gap(s)**

**Knowledge Gap:** Practitioners may lack comprehensive knowledge, skills, and abilities in preparing patients for CMR studies, selecting appropriate protocols, conducting CMR studies in various scenarios, post-processing images, and interpreting results for clinical decision-making.

**Protocol Selection Gap:** Physicians may lack the ability to select and perform appropriate protocols for specific clinical scenarios, including understanding when and how to apply different protocols based on patient characteristics and clinical indications.

**Interpretation Gap:** Practitioners need further training in interpreting normal and abnormal CMR exams, including anatomy, function, and physiology in order to be able to recognize patterns indicative of ischemic and nonischemic heart disease, as well as interpreting additional CMR exams such as those for cardiac masses, congenital heart disease, and vascular disease.

**Post-Processing Gap:** There is a lack of essential training in the ability to supervise and/or perform post-processing tasks related to CMR exams, which are critical for generating accurate and clinically relevant results.

**Certification Preparation Gap:** Practitioners may lack preparation specifically for passing the CBCMR Exam, which requires a deep understanding of the above-mentioned areas.

### **Learning Needs:**

1. **Comprehensive Knowledge of CMR Studies:** Practitioners need training to develop a comprehensive understanding of CMR studies, including the principles of CMR imaging, patient preparation techniques, and the ability to select appropriate protocols for different clinical scenarios.
2. **Protocol Selection Skills:** Physicians require training to enhance their ability to select and perform appropriate protocols for specific clinical scenarios. This includes understanding the criteria for selecting protocols based on patient characteristics and clinical indications.
3. **Interpretation Skills:** Practitioners need further training in interpreting normal and abnormal CMR exams. This includes understanding anatomy, function, and physiology related to CMR, as well as recognizing patterns indicative of various heart diseases and other conditions.

4. **Post-Processing Skills:** There is a need for training in supervising and performing post-processing tasks related to CMR exams. This training is essential for generating accurate and clinically relevant results.
5. **Certification Preparation:** Practitioners require preparation specifically for passing the CBCMR Exam. This preparation should focus on deepening their understanding of CMR imaging principles, protocol selection, image interpretation, and post-processing tasks.
6. **Clinical Decision-Making Skills:** Training should focus on developing skills related to using CMR imaging results for clinical decision-making. This includes understanding how to integrate CMR findings into patient management plans.
7. **Continuing Education:** Practitioners should engage in ongoing education to stay updated with advancements in CMR imaging technology, protocols, and interpretation techniques.

**Expected Results Statement:**

Upon completion of the training program, practitioners will demonstrate comprehensive knowledge, skills, and abilities in cardiovascular magnetic resonance (CMR) imaging. They will be able to prepare patients effectively for CMR studies, select and perform appropriate protocols for various clinical scenarios, interpret normal and abnormal CMR exams accurately, supervise and perform post-processing tasks related to CMR imaging, and integrate CMR findings into clinical decision-making processes. Additionally, practitioners will be prepared to pass the CBCMR Exam, showcasing their deep understanding of CMR principles and practices. Overall, practitioners will be equipped to provide high-quality CMR imaging services, leading to improved patient care and outcomes.

**Learning Objectives:**

At the conclusion of this meeting, participants will have improved competence and professional performance in their ability to:

1. Select and perform appropriate protocols for specific clinical scenarios.
2. Perform CMR exams.
3. Interpret normal and abnormal CMR exams: anatomy, function, and physiology.
4. Interpret ischemic and nonischemic heart disease CMR Exams
5. Interpret additional CMR exams including cardiac masses, congenital heart disease, and vascular disease.
6. Supervise and/or perform post processing tasks.

**Accreditation Statement**

Society for Cardiovascular Magnetic Resonance (SCMR) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

SCMR designates this live/virtual activity for a maximum of **17.5 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Disclosure of Conflict of Interest**

The following **planners/reviewers** who were in a position to control the content of this CME activity have disclosed the following financial relationships with ACCME defined ineligible companies. Planners/reviewers not listed below did not have any financial relationships to disclose.

First Name	Last Name	Individual's Role(s) in Activity	Name(s) of Ineligible Companies	Nature of Relevant Financial Relationship(s)	Method of Mitigation
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Vanessa	Ferreira	Speaker, Chair, Planning Committee	General Electric Healthcare	Research Grant Site Principal Investigator	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Kate	Hanneman	Speaker, Planning Committee	Sanofi Genzyme	Speakers Bureau	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Kanae	Mukai	Speaker, Planning Committee	Canon Medical Systems	Speakers Bureau	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Ming Yen	Ng	Speaker, Planning Committee, Chair	GE, BAYER	Other,Other	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Prabhakar	Rajiah	Speaker, Moderator, Planning Committee	Elsevier	Other	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Kevin	Steel	Speaker, Planning Committee	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Katie	Thomas	Speaker, Planning Committee	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Rachel	Wald	Speaker, Planning Committee	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present

The following faculty (presenters, moderators, chairs, etc.) who were in a position to control the content of this CME activity have disclosed the following financial relationships with ACCME defined ineligible companies. Faculty not listed below did not have any financial relationships to disclose.

First Name	Last Name	Individual's Role(s) in Activity	Name(s) of Ineligible Companies	Nature of Relevant Financial Relationship(s)	Method of Mitigation
Nay	Aung	Moderator/Speaker	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Sonya	Babu-Narayan	Moderator/Speaker	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present

James	Carr	Speaker	Siemens,RoClub,GE,Bayer,Guerbet	Research Grant Site Principal Investigator,Scientific/Medical Advisory Board Member,Scientific/Medical Advisory Board Member,Scientific/Medical Advisory Board Member,Research Grant Site Principal Investigator	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Erica	Dall'Armellina	Moderator	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Alison	Fletcher	Speaker	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Marianna	Fontana	Speaker	Consultancy/advisory boards for Alnylam, Alexion, Astrazeneca, Bridgbio/Eidos, Prothena, Attralus, Intellia, Ionis, Cardior, Lexeo, Pfizer. Research grants from: Alnylam, Bridgbio, Astrazeneca, Pfize,Shares: Lexeo, Mycardium-AI	Consultant,Private Stock Shareholder	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Marco	Francone	Speaker	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Matthias	Friedrich	Speaker	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Edward	Hulten	Moderator	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Ron	Jacob	Moderator	Circle CV1	Other	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Dinesh	Kalra	Speaker	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Peter	Kellman	Moderator/Speaker	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Christopher	Kramer	Speaker	BMS,Cytokinetics,Biomarin	Research Grant Site Principal Investigator,Research	The COI subcommittee has reviewed all financial disclosures and the content of

				Grant Site Principal Investigator,Scientific/Medical Advisory Board Member,Consultant	this activity and determine that no conflict is present
Steve	Leung	Speaker	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Chris	Macgowan	Speaker	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Viviana	Maestrini	Speaker	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Charlotte	Manisty	Speaker	MyocardiumAI,Pfizer,Abbott St Jude Medical	Corporate Board Member,Speakers Bureau,Speakers Bureau	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Pier Giorgio	Masci	Speaker	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Rebecca	Mills	Speaker	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Michael	Morris	Moderator	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Kristian	Mortensen	Speaker	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Saul	Myerson	Speaker	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Faisal	Nabi	Speaker	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Ntobeko	Ntusi	Speaker	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Karen	Ordovas	Speaker	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present

Alessia	Pepe	Speaker	Circle Cardiovascular Imaging B.V.	Speakers Bureau	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Steffen	Petersen	Speaker	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Stefan	Piechnik	Moderator	General Electric	Research Grant Overall Principal Investigator	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Vikas	Rathi	Speaker	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present
Damian	Tyler	Speaker	NA	NA	The COI subcommittee has reviewed all financial disclosures and the content of this activity and determine that no conflict is present