

ST. DAVID'S MEDICAL CENTER

Cardiology – Cardiac MRI

Initial Criteria – For those in fellowship training

1. Board certification or in adult cardiovascular medicine (ABIM) or adult radiology (ABR) within 2 years of completion of fellowship training
2. Proof of Level 2 training or higher (as outlined below)
3. Obtain Board certification in Cardiovascular Magnetic Resonance by the Certification Board of Cardiovascular Magnetic Resonance (CBCMR) within 2 years of completion of fellowship training
4. Reference from CMR lab director or chief of cardiology or radiology at applicant's training program

Initial Criteria - For those in clinical practice:

1. Board certification or equivalent in adult cardiovascular medicine (ABIM) or adult radiology (ABR)
2. Proof of Level 2 training or higher (as outlined below)
3. Obtain Board certification in Cardiovascular Magnetic Resonance by the Certification Board of Cardiovascular Magnetic Resonance (CBCMR) within 2 years of date of hire
4. Primary interpretation of at least 100 cases in the prior 2 years (documentation of dates and number of cases read provided by CMR lab director or chief of cardiology or radiology from applicant's primary hospital/program affiliation)
5. CME in CMR for at least 20h in the prior 2 years

Initial Criteria - For those who did not complete formal training

An individual may be exempted from the above training requirements if the following criteria were met prior to July 1, 2003.

- Board certification in cardiovascular medicine or radiology.
- Two years or more of substantial activities in CMR including at least two of the following:
 1. Documented involvement in the performance and interpretation of at least 200 CMR studies.
 2. CMR research activities verified by publication record.
 3. Acknowledged clinical teacher of CMR with at least two or more trainees.
 4. Active participation in CME and local quality assurance programs as required for Level 2 or higher requirements noted above.

Applicants who do not meet Initial or Reappointment Criteria

If initial or reappointment requirements are not achieved, approval may be considered if:

- (a) Approved by the SDMC Cardiology Department Chairs, in consultation with the Director of the CMR Laboratory, and SDMC CMOs.
- (b) Additional overview as recommended by the Department Chair(s).

Level Two Training Definition

Required training (level 2 or above):

- At least 12 weeks of dedicated CMR training under the supervision of a Level 2 or Level 3 (preferred) qualified mentor including a minimum of 6 weeks full-time equivalent training in a CMR laboratory and up to 6 weeks of training outside of a CMR laboratory. Both in-lab and out-of-lab training time is defined as a minimum of 35 h/week and may be spread over more than 12 weeks as long as the total time requirements are met. Training outside of a CMR laboratory may consist of coursework or case studies provided on-line or via CD/DVD, time at major medical meetings that have significant content devoted to CMR, or remote mentoring. The 12 weeks of dedicated CMR training need not be continuous or at a single institution but must be completed within 4 years.
- At least 50 h of CMR related coursework within the training program, or external CME certified coursework within the timeframe of the training program.
- Supervised interpretation of at least 150 CMR studies representing the range of CMR applications and pathologies observed in practice. CMR studies should include a mix of the cardiac and vascular indications listed in Table 1 (below). For at least 50 studies, the trainee must be present during the scan as the primary operator or alongside the technologist, perform the image analysis, and make the initial interpretation.

Supervised interpretation means that detailed feedback of the interpretation is provided by a SCMR Level 2 or Level 3 or international equivalent qualified mentor.

Table 1 Topics to be covered in Level 1 training

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- CMR safety: magnetic fields, and contraindications
 - CMR contrast agents: mechanisms, safety, and applications
 - Blood flow imaging and quantitative analysis of velocity-encoded images
 - CMR of cardiovascular structure and anatomy
 - CMR of right and left ventricular function
 - CMR of myocardial infarction, scarring, and viability assessment
 - CMR of myocardial fibrosis and edema
 - CMR stress testing
 - CMR of vascular pathology, including aortic disease
 - CMR of valvular heart disease
 - CMR of pediatric and adult congenital heart disease
 - CMR in cardiomyopathies and heart failure
 - CMR in arrhythmia
 - CMR of pericardial disease
 - CMR for cardiac masses and tumors
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Proof of training for Level 2 or higher and clinical references for CMR

Official SCMR verification of completion of Level 2 or Level 3 training or a letter from the trainee's laboratory director or from the program director of their fellowship training program verifying that the above training requirements have been achieved.

Reappointment Criteria:

1. CME in CMR for at least 20 h every 2 years.
2. Satisfactory primary interpretation of at least 100 cases every 2 years.
3. Must participate in quality assessment, privileging, and credentialing policies and peer review activities
4. Compliance with all lab policies, procedures, and standards.
5. Maintain Board certification in Cardiovascular Magnetic Resonance along with board certification in adult cardiovascular medicine or adult radiology.