

## 2nd Cardiac MRI Teaching Course, Sydney, Australia

### Course Director: Prof Joseph Selvanayagam

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### Course Faculty

Dr Sanjay Prasad (London, UK)  
A/Prof Jane McCrohan (Sydney, Australia)  
Dr Mark Agzarian (Adelaide, Australia)  
Prof Joseph Selvanayagam (Adelaide, Australia)

### Course Overview

This 2 day teaching course is designed to enhance clinical practice skills by providing intense training in interpreting cardiac MRI examinations under the supervision of teaching faculty. The course lectures on day 1 will cover basic MRI physics, MRI safety as well as CMR scanning protocols for common cardiac conditions. Mentored case review sessions on day 2 (on dedicated workstations with no more than 2 attendees per workstation) will be available to allow course attendees to view teaching cases covering aspects of viability, perfusion, cardiomyopathy imaging, as well as valvular heart disease, pericardial disease and congenital heart disease. Cases viewed can be documented to form part of SCMR requirements for Level 1 training. Level 1 aim is to provide the attendee with the working knowledge of CMR methods and diagnostic utility.

### Certificate of Proficiency

Attendees will be awarded a Certificate of Proficiency that includes the mentored number of cases reviewed, for use in credentialing which can contribute to the case requirements specified in the ACFC/AHA/SCMR Level 1 requirements for Clinical competence in Cardiac Imaging with Magnetic Resonance

### Level 1: Total of 50 cases

50 mentored cases reviewed **AND** manipulated on a workstation.

## SATURDAY 3<sup>rd</sup> July 2010 – 2<sup>nd</sup> MRI Teaching Course

0700-0800 Registration

### Session 1: Basic CMR Methods

0805-0820 Overview/introduction to CMR (*J Selvanayagam*)

0820-0840 Basic CMR/MRI physics 1 (*M Agzarian*)

0840-0920 Anatomy (“Bright” and/or “dark” blood methods) LV and RV function. Acquisition and analysis. \*(*S Prasad*)

0920-0940 Basic CMR/MRI physics 2/MRI safety (*M Agzarian*)

**MORNING TEA 0940-1000**

***Session 2: Clinical CMR Methods 1***

1000-1025 Late gadolinium imaging. Acquisition and analysis. \* (*J Selvanayagam*)

1025-1050 Late gadolinium imaging. Clinical and research applications. (*J Selvanayagam*)

1050-1120 How do I do CMR of valvular heart disease? (*S Prasad*)

1120-1145 How do I do CMR of the aorta? (*S Prasad*)

**LUNCH 1145-1245**

***Session 3: Clinical CMR Methods 2***

1245-1310 Perfusion imaging/Dobutamine stress wall motion studies. Acquisition and analysis. \* (*J Selvanayagam*)

1310-1330 Stress imaging. Applications. (*J Selvanayagam*)

1330-1430 Spotlight presentations.

**AFTERNOON TEA 1430-1500**

***Session 4: Practical CMR: Ventricular Function***

1500-1700 Case reading (approximately 10 cases) concentrating on normal and abnormal LV/RV function. \*\* (*J Selvanayagam*)

**CLOSE OF DAY 1700HRS**

**SUNDAY 4<sup>th</sup> July 2010**

***Session 5: Practical CMR: Valves/Congenital***

0800-0930 Review of cases -10 cases of CMR in valvular heart disease and diseases of the great vessels. \*\* (*S Prasad*)

0930-1015 CMR in congenital heart disease (5 cases). \*\* (*S Prasad*)

**MORNING TEA 1015-1045**

***Session 6: Clinical CMR Methods 3***

1045 -1115 How do I do CMR in dilated and hypertrophic cardiomyopathy? (*J McCrohan*)

1115-1140 How do I do CMR in pericardial disease? (*S Prasad*)

1140-1210 How do I do CMR in Arrhythmogenic Right Ventricular Cardiomyopathy? (*J McCrohan*)

**LUNCH 1210-1310**

***Session 7: Practical CMR: Cardiomyopathy***

1310-1510 Review of cases 10 cases on cardiomyopathy and pericardial disease. \*\* (*S Prasad*)

**AFTERNOON TEA 1510-1530**

***Session 8: Practical CMR: Coronary Artery Disease***

1530-1730 Review of 12-15 cases on CMR in ischaemic heart disease (late enhancement cases, perfusion cases, wall motion cases). \*\* (*J Selvanayagam*)

**MEETING CONCLUDES 1730**

\*denotes principles of analysis/acquisition

\*\*denotes workshop case reviews manipulated on workstations. Maximum of 20 attendees on day 2 with dedicated workstations with no more than 2 attendees per workstation. Here the attendees will be given opportunity to personally manipulate and interpret teaching cases on workstations (Expected number of cases to be completed is 45-50). These cases will be coded and most will have case history attached and can be recorded as part of the 50 mentored cases as for SCMR level 1 requirements.

**Disclaimer:**

Whilst every attempt will be made to ensure all aspects of the conference mentioned in this announcement will take place as scheduled, the organiser may make changes to the program content and speakers should the need arise.