



**Cardiac  
Risk in the  
Young**



**St George's**  
University of London

# PRACTICAL IMAGING COURSE

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## Cardiac Imaging in Cardiomyopathies and Athlete's heart – the DIGITAL experience

Synopsis and aims: Modern, advanced imaging techniques have allowed increasingly more rigorous assessment of individuals with cardiomyopathies. Correct interpretation is key in the differential diagnosis with structural changes that reflect physiological cardiac adaptation to exercise. This practical course, delivered by experts in the field of cardiac imaging, cardiomyopathies and sports cardiology, aims to provide participants with the knowledge and skills to recognize different cardiomyopathy phenotypes and to differentiate findings suggestive of potentially lethal cardiovascular disorders from normal variants. The course is highly interactive. Lectures will be complemented with small group, case-based workshops.

The course is highly interactive through Q&A sessions, small groups teaching and case-based learning.

The course is hosted on a Microsoft Teams digital platform – the attendees will be able to interact with the speakers and ask questions, raise comments and respond to MCQs.

The course comprises of 3 sessions (3 and a half hours each) offered over 3 days. Lectures alternate with case-based learning (small groups teaching). The attendees are encouraged to participate to the live lectures, but they would be able to access the recordings for up to 4 weeks from the end of the live course. A certificate of attendance from St George's University will be issued at the end of the course.

CPD (6 points) will be sought from Royal College of Physicians.

### Learning Objectives

After this course, participants will be able to:

- Recognize imaging features of cardiomyopathies

- Differentiate features of athletic adaptation from those suggestive of cardiomyopathy
- Plan a diagnostic work-up for individuals with possible cardiomyopathy

Attendees will be asked to complete online assignment (MCQs) between sessions and feedback will be provided. This is for the participants' own learning and not a fail/pass process.

Setting: Cardiovascular Clinical Academic Group, Molecular and Clinical Sciences Research Institute, St George's, University of London.

- Audience: This course is for anyone who wishes to achieve a competency in cardiac imaging in cardiomyopathies and in athletes. The course is best suited for Consultants, Junior Doctors, Sport physicians, Sonographers, Physiologists, Physician assistants, Specialist Nurses.
- Venue: SGUL – MS Teams (Digital course)
- Course Directors: Dr Gherardo Finocchiaro, Dr Michael Papadakis
- Course Coordinator: Ms Nikki George
- IT Coordinator: Dr Luke Woodham
- Organizing bodies: Cardiovascular Clinical Academic Group, St George's, University of London
- Cost: Early bird fee: £140 (SGUL/STG Trust staff/Allied Health Professionals) and £170 (Non SGUL/STG Trust staff/ Non-Allied Health Professionals) until 15 October 2021  
  
Standard fee: £190 (SGUL/STG Trust staff/Non-Allied Health Professionals) and £220 (Non SGUL/STG Trust staff) from 15 October 2021
- A certificate will be issued and sent via email to all the attendees.

- CPD points (Royal College of Physicians and British Society of Echocardiography) applied for.

## PROGRAMME

**Monday 15<sup>th</sup> of November - 20 imaging cases with single best answer questions as a pre-course assessment.**

**Monday 22<sup>nd</sup> of November (16.00 – 19.00 Greenwich time)**

<b><i>Chair: Dr Gherardo Finocchiaro - Assessment of left ventricular hypertrophy</i></b>	
<b>16.00-16.05:</b>	Introduction to the course (Dr Gherardo Finocchiaro)
<b>16.05-16.20:</b>	Overview of the role of cardiac imaging in the evaluation of athletes (Dr Michael Papadakis)
<b>16.20-16.35:</b>	Physiological left ventricular hypertrophy in athletes (Prof Sanjay Sharma)
<b>16.35-16.50:</b>	Echocardiography in hypertrophic cardiomyopathy (Dr Antonis Pantazis)
<b>16.50-17.05:</b>	CMR in hypertrophic cardiomyopathy (Dr John Baksi)
<b>17.05-17.20:</b>	Role of CMR in the differential with phenocopies (Dr Dan Sado)
<b>17.20-17.30:</b>	Q&A session
<b>17.30-18.30:</b>	Small groups teaching – Interactive case discussion Group A: Hamish MacLachlan, Antonis Pantazis, Dan Sado Group B: Raghav Bhatia, Michael Papadakis, Sanjay Sharma Group C: Dimitra Antonakaki, Gherardo Finocchiaro, John Baksi
<b>18.30-19.00:</b>	Cutting-edge therapies in cardiomyopathies – how can imaging guide medical treatment? (Prof Iacopo Olivetto)

**After the end of the first webinar the participants will have the opportunity to review 20 imaging cases with single best answer questions and discussion of the responses for self-assessment.**

**Monday 29<sup>th</sup> of November (16.00 – 19.00 Greenwich time)**

**Chair: Dr Maite Tome - Assessment of the left ventricle**

<b>16.00-16.05:</b>	Welcome to day 2 (Dr Maite Tome)
<b>16.05-16.20:</b>	Left ventricular dilatation in athletes. What to expect? (Prof Antonio Pelliccia)
<b>16.20-16.35:</b>	Echocardiography in dilated cardiomyopathy (Dr Rajan Sharma)
<b>16.35-16.50:</b>	CMR in the diagnosis of dilated cardiomyopathy (Prof Sanjay Prasad)
<b>16.50-17.05:</b>	Assessing left ventricular trabeculations in athletes (Dr Sabiha Gati)
<b>17.05-17.20:</b>	Stress CMR in cardiomyopathies and athlete's heart (Prof Amedeo Chiribiri)
<b>17.20-17.30:</b>	Q&A session
<b>17.30-18.30:</b>	Small groups teaching – Interactive case discussion Group A: Nikhil Chatrath, Maite Tome, Rajan Sharma Group B: Sohaib Nazir, Amedeo Chiribiri, Sanjay Prasad Group C: Gherardo Finocchiaro, Antonio Pelliccia, Sabiha Gati
<b>18.30-19.00:</b>	Novel CMR techniques in cardiomyopathies (Prof Dudley Pennell)

After the end of the second webinar the participants will have the opportunity to review 20 imaging cases with single best answer questions and discussion of the responses for self-assessment.

**Monday 6<sup>th</sup> of December (17.00 – 19.00 Greenwich time)****Chair: Dr Michael Papadakis - The right ventricle and beyond**

<b>16.00-16.05:</b>	Welcome to day 3 (Dr Michael Papadakis)
<b>16.05-16.20:</b>	The right ventricle in athletes (Dr David Oxborough)
<b>16.20-16.35:</b>	Echocardiography in arrhythmogenic cardiomyopathy (Dr Gerald Carr-White)
<b>16.35-16.50:</b>	CMR in arrhythmogenic cardiomyopathy (Dr Gherardo Finocchiaro)
<b>16.50-17.05:</b>	Imaging in inflammatory cardiomyopathies (Dr Chiara Bucciarelli-Bucci)
<b>17.05-17.20:</b>	Imaging in restrictive cardiomyopathies (Prof Marianna Fontana)
<b>17.20-17.30:</b>	Q&A session
<b>17.30-18.30:</b>	Small groups teaching – Interactive case discussion Group A: Sarandeep Marwaha, David Oxborough, Gerald Carr-White Group B: Saad Fyyaz, Gherardo Finocchiaro, Chiara Bucciarelli-Ducci Group C: Alex Kasiakogias, Michael Papadakis, Marianna Fontana
<b>18:30-19:00:</b>	Imaging Quiz

20 imaging cases with single best answer questions as a post-course assessment (same cases as pre-course assessment).

**End of the course**

All course material, including recorded lectures, will remain available to participants until the 10<sup>th</sup> of January 2022.

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