PRACTICAL IMAGING COURSE

Cardiac Imaging in Cardiomyopathies and Athlete's heart

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 at SGUL and delivered in an hybrid format. The platform Microsoft Teams will be used for attendees who are not able to participate in person. 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 offered over 1 day. 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 (7 points) has been awarded from the 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, 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 (Hybrid course)

- Course Directors: Dr Gherardo Finocchiaro, Dr Emmanuel Androulakis, Prof 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: please refer to: www.sgul.ac.uk/cardio-conference

- A certificate will be issued and sent via email to all the attendees.

- 7 CPD points awarded from Royal College of Physicians. BSE will be applied for.

PROGRAMME

Monday 10th of June - 20 imaging cases with single best answer questions as a pre-course assessment.

Friday 28th of June (Greenwich time)

Chair: Prof Michael Papadakis - Assessment of left ventricular hypertrophy

08.50-09.00: Introduction to the course (Dr Gherardo Finocchiaro)
09.00-09.15: Overview of the role of cardiac imaging in the evaluation of athletes (Prof Michael Papadakis)
09.15-09.30: Physiological left ventricular hypertrophy in athletes (Prof Sanjay Sharma)
09.30-09.45: Echocardiography in hypertrophic cardiomyopathy (Dr Rajan Sharma)
09.45-10.00: CMR in hypertrophic cardiomyopathy (Dr John Baksi)
10.00-10.15: Role of CMR in the differential with phenocopies (Dr Kris Knott)
10.15-10.30: Q&A session
10.30-10.45 Coffee break
10.45-11.30: Small groups teaching – Interactive case discussion
Group A: Daniel Abioye, Rajan Sharma, Gherardo Finocchiaro
Group B: Khalda Halim, Michael Papadakis, Sanjay Sharma
Group C: Mihnea Casian, John Baksi, Kris Knott
11.30-12.00: Cutting-edge therapies in cardiomyopathies – how can imaging guide medical treatment? (Prof Maite Tome)
12.00-13.00: Lunch

Chair: Prof Maite Tome - Assessment of the left ventricle

13.00-13.15: Left ventricular dilatation in athletes. What to expect? (Prof Sanjay Sharma)
13.15-13.30: Echocardiography in dilated cardiomyopathy (Dr Emmanuel Androulakis)
13.30-13.45: CMR in the diagnosis of dilated cardiomyopathy (Dr Brian Halliday)
13.45-14.00: Assessing left ventricular trabeculations in athletes (Prof Viviana Maestrini - remote)
14.00-14.15: Stress CMR in cardiomyopathies (Dr Nick Bunce)
14.15-14.30: Q&A session
14.30-15.00: Coffee break

Chair: Dr Gherardo Finocchiaro - The right ventricle and beyond

15.00-15.15: The right ventricle in athletes (Prof David Oxborough)
15.15-15.30: Echocardiography in arrhythmogenic cardiomyopathy (Dr Anna Marciniak)
15.30-15.45: CMR in arrhythmogenic cardiomyopathy (Dr Gherardo Finocchiaro)
15.45-16.00: Imaging in inflammatory cardiomyopathies (Dr Nesan Shanmugam)
16.00-16.15: Imaging in restrictive cardiomyopathies (Dr Ana Martinez Naharro)
16.15-16.30: Q&A session
16.30-17.00 Cardiac Imaging in athletes – from diagnosis to prognosis and shared decision making (Prof Aaron Baggish -remote)
16.30-17.30: Small groups teaching – Interactive case discussion
Group A: Daniel Tardo, David Oxborough, Anna Marciniak
Group B: Mihnea Casian, Gherardo Finocchiaro, Nesan Shanmugam
Group C: Emmanuel Androulakis, Nick Bunce, Ana Martinez Naharro
17.30-17.40 Final remarks

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.

Recorded lectures, will be available for a limited time after the course.