

Effective Prenatal Screening of Congenital Heart Disease 2024

31st Oct, 1st & 2nd Nov

Course directors:

Prof Julene S. Carvalho and Prof S. Yen Ho

Brompton Centre for Fetal Cardiology
St George's Fetal Medicine Unit

To be held at the Royal Marsden Hospital Conference Centre
off Fulham Road, London, UK
and Royal Brompton Hospital

Now in its 22nd year, this popular course has been updated to reflect national and international screening protocols whilst maintaining its successful format.

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Now in its 22nd year, this popular course is back to its 3-day format and with choice of attending in person or online. It includes updated interactive video clip sessions that reflect current national and international screening protocols. The course maintains its successful format and continues to provide new/ updated lecture topics, enhanced video clips and quiz sessions and provides an opportunity for all those who scan the fetal heart to update and expand their skills under the tuition of experts.

The course is primarily aimed at medical and non-medical sonographers who provide a routine fetal anomaly service. It incorporates techniques and ways of improving screening such as effective use of colour and pulsed wave Doppler. It takes into account the increasing demand for high-quality screening to be provided to all pregnant women. It is also suitable for trainees in fetal medicine, paediatric cardiology, obstetric ultrasound and advanced sonographers wishing to extend their knowledge on congenital cardiac anomalies.

For in person attendees, it provides the option of attending one or two days of presentations and discussions or three days including hands-on.

Course Objectives

- To improve the sonographer's technique for imaging the fetal heart
- To enable the sonographer to identify the range of appearances of the normal and abnormal heart
- To enable the sonographer to distinguish between normal and abnormal features

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Programme

DAY 1: Thursday, 31 October 2024

08.15 Registration and coffee
09.00 Welcome and objectives Prof Carvalho & Prof Ho

SESSION 1 – Chairperson: Mr Leigh

LOOKING BACK, LOOKING FORWARD

09.10 **Keynote lecture**
Development and growth of fetal cardiology Prof Sharland
09.40 Looking forward: 2023 Updated ISUOG guidelines Prof Carvalho
What is new?
10.10 Introduction to quiz Prof Carvalho
10.20 **Coffee & Quiz – Test your skills**

SESSION 2 – Chairperson: Mr Leigh

THE FOUR CHAMBER AND VESSELS

10.40 The normal heart: sequential segmental analysis Prof Ho
The logical approach: morphology from 4-chambers to vessels
11.00 Laterality, situs, four chambers, vessels and more Prof Carvalho
Old-fashion recycled -- adding colour, PW Doppler
11:30 The outflow tracts, 3VV and 3VTV Dr Jowett
12.00 **Lunch & Quiz – Test your skills**

SESSION 3 – Chairperson: Dr Arechvo

13.00 **Live scanning** – an interactive session Prof Carvalho

SESSION 4 – Chairperson: Dr Arechvo

THEORY TO PRACTICE

14.00 Abnormal hearts: Anatomy and ultrasound Prof Carvalho & Prof Ho
Interactive session
14.40 **Tea & Quiz – Test your skills**

SESSION 5 – Chairperson: Dr Arechvo

PICKING UP FOUR-CHAMBER ABNORMALITIES: AVSD

15.00 Anatomical features: the morphological spectrum of AVSD Prof Ho
Understanding the essential features
15.20 This fetus has an AVSD: ultrasound and clinical features Prof Carvalho
The obvious and the not so obvious abnormal 4-chamber view
15.50 **Quiz review** **All**
16.40 Close

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Programme

DAY 2:	Friday, 1 November 2024	
08.15	Registration and coffee	
09.00	Welcome back and objectives	Prof Carvalho & Prof Ho
Session 6 – Chairperson: Dr Bhide		
IMAGES, IMAGES ...		
09.10	Review of sonographers' images - I <i>What you are <u>not</u> picking up ☹️.... Let's learn what to look for!</i>	Prof Carvalho
Session 7 – Chairperson: Dr Bhide		
PICKING UP FOUR-CHAMBER ABNORMALITIES: HLHS		
09.50	Anatomical features – the morphological spectrum of HLHS <i>Understanding the essential features</i>	Dr McCarthy
10.10	This fetus has HLHS: ultrasound and clinical features <i>Recognising the echo spectrum of HLHS</i>	Dr Vazquez-Garcia
10.40	Introduction to quiz	Prof Carvalho
10.50	Coffee & Quiz – Test your skills	
Session 8 – Chairperson: Dr Bhide		
PICKING UP OUTFLOW TRACT ABNORMALITIES: TETRALOGY OF FALLOT		
11.10	Tetralogy of Fallot: the morphological spectrum <i>Understanding the essential features</i>	Prof Ho
11.30	This fetus has TOF: ultrasound and clinical features <i>Recognising the echo spectrum of TOF</i>	Dr Nair
12.00	Lunch & Quiz – Test your skills	
Session 12 – Chairperson: Prof Savvidou		
PICKING UP OUTFLOW TRACT ABNORMALITIES: COMPLETE TRANSPOSITION		
13.00	Complete transposition of the great arteries <i>Anatomy: Understanding the essential features</i>	Prof Ho
13.20	This fetus has 'TGA': ultrasound and clinical features <i>Understanding connections and relationships</i>	Prof Carvalho
Session 11 – Chairperson: Prof Savvidou		
THEORY TO PRACTICE		
13.50	Abnormal hearts: Anatomy and ultrasound <i>Interactive session</i>	Prof Carvalho & Prof Ho
14.30	Coffee & Quiz – Test your skills	
Session 9 – Chairperson: Prof Carvalho		
IMAGES, IMAGES, MORE IMAGES		
15.00	Review of sonographers' images II <i>What you are picking up: smile, you are doing well 😊 !</i>	Prof Carvalho
15.30	Quiz review	All
16.15	Close	

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DAY 3: Saturday, 2 November 2024

VERY LIMITED SPACES

'Hands-on' and Interactive session (video clips / 3D models)

(Practical Hands-on training for right-hand scanning and interactive session, for 2 groups)

The number of delegates will be restricted to 24

Choice of early start (12 delegates) or late start (12 delegates) will be on a first-come, first-served basis. Whenever possible, fetuses with congenital heart disease will be scanned.

Meeting point and times: *Please be punctual*

Echo rooms Royal Brompton Hospital, Fulham Wing

08:30 – 08:45am Group A delegates = Early start

10.30 – 10.45am Group B delegates = Late start

MORNING

GROUP A - Echo rooms Royal Brompton Hospital, Fulham Wing

09.00 Briefing of scanning/rotation for morning sessions Prof Carvalho

09.15 Practical hands-on scanning 1 Tutors

10.00 Practical hands-on scanning 2 Tutors

10.45 Coffee - all delegates

11.00 Practical hands-on scanning 3 Tutors

11.45 Practical hands-on scanning 4 Tutors

GROUP B - Morphology museum, Royal Brompton Hospital, Chelsea Wing

11:00 – 12:40 Interactive video clip demonstration and 3D models Dr Lopes, Prof Ho

12.45 Lunch - all delegates (early and late starters)

AFTERNOON

GROUP B - Echo rooms Royal Brompton Hospital, Fulham Wing

13.45 Briefing of scanning/rotation for afternoon sessions Prof Carvalho

14.00 Practical hands-on scanning 5 Tutors

14.45 Practical hands-on scanning 6 Tutors

15.30 Tea - all delegates (early and late starters)

15.45 Practical hands-on scanning 7 Tutors

16.30 Practical hands-on scanning 8 Tutors

GROUP A - Morphology museum, Royal Brompton Hospital, Chelsea Wing

13:30 – 15:00 Interactive video clip demonstration and 3D models Dr Lopes, Prof Ho

17.15 Close

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COURSE FEES

In person only

- Day one (31st Oct): **£190**
- Day two only (1st Nov): **£190**
- Day one AND day two (31st Oct and 1st Nov) : **£350**
- All three days (31st Oct, 1st & 2nd Nov) : **£550**

Online only

- Day one only (31st Oct): **£75**
- Day two only (1st Nov): **£75**
- Day one AND day two (31st Oct and 1st Nov): **£130**

In person course fees include course refreshments, course materials
All course fees include ISUOG core membership until December 2024

COURSE ADMINISTRATOR

Mrs Christine Saddington

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LIST OF CONTRIBUTORS

COURSE DIRECTORS

Prof Julene Carvalho	Head of Brompton Centre for Fetal Cardiology Royal Brompton Hospital, London Fetal Medicine Unit, St George's University Hospital, London Professor in Fetal Cardiology, City St George's University of London
Prof S. Yen Ho	Professor of Cardiac Morphology and Consultant Royal Brompton Hospital, London Imperial College, London

INVITED FACULTY

Prof Gurleen Sharland	Professor of Fetal Cardiology
Assoc Prof Anastasija Arechvo	Senior Lecturer and Consultant in Fetal Medicine, King's College Hospital, London
Dr Amar Bhide	Consultant and Reader in Fetal Medicine and Obstetrics Fetal Medicine Unit, St George's University Hospital, London City St George's University of London
Dr Victoria Jowett	Consultant Fetal and Paediatric Cardiologist Great Ormond Street Hospital, London
Mr Bertie Leigh	Solicitor, London (retired)
Dr Karina Lopes	Consultant Fetal & Paediatric Cardiologist Instituto de Medicina Integral Prof Fernando Figueira Recife, Brazil
Dr Karen McCarthy	Research Fellow and Co-lead, Cardiac Morphology Royal Brompton Hospital, London
Dr Anupama Nair	Locum Consultant in Fetal and Paediatric Cardiology, Royal Brompton Hospital, London
Dr Olga Patey	Specialty Doctor in Fetal Cardiology, Brompton Centre for Fetal Cardiology, Paediatric Cardiology, Royal Brompton Hospital, London & Fetal Medicine Unit, St George's University Hospital, London.
Prof Mina Savvidou	Professor and Consultant Obstetrician, Fetal Medicine Lead Chelsea and Westminster Hospital, London
Dr Laura Vazquez-Garcia	Consultant Fetal & Paediatric Cardiologist Royal Brompton Hospital, Queen Charlotte's & Chelsea Hospital, London