Effective Prenatal Screening of Congenital Heart Disease

01, 02, 03 June 2018

Course directors:
Julene S. Carvalho and S. Yen Ho

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

To be held at the Royal Marsden Hospital and
Royal Brompton Hospital, London, UK

Now in its 18th year, this popular course includes updated interactive video clip sessions that reflect current national and international screening protocols, whilst maintaining its successful format.

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Effective Prenatal Screening of Congenital Heart Disease 1, 2, 3 June 2018

Now in its 18th year, this popular course 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.

It provides the option of attending one or both days of presentations and discussions. The option of attending the third day, which offers supervised hands-on fetal scanning, is available to a limited number of delegates.

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
Programme

DAY 1: Friday, 1 June 2018

08.45 Registration and coffee
09.15 Welcome and objectives Dr Carvalho & Prof Ho

SESSION 1 – Chairperson: Mr Amar Bhide
TECHNIQUE – OPTIMISING YOUR SCANS FOR CARDIAC SCREENING

09.30 How to ‘drive’ your machine. Essentials rules and practical tips Setting up your equipment to get the most of your images Ms Botes (tbc)

10.00 How to get around the ‘high BMI patient’ and ‘spine up’ fetus Improve your level of screening with helpful tips in the ‘difficult to scan’ patient Dr Carvalho

10.30 Introduction to quiz Dr Carvalho

10.40 Coffee & Quiz – Test your skills

SESSION 2 – Chairperson: Mr Amar Bhide
CARDIAC SCREENING PROTOCOLS

11.00 The normal heart: sequential segmental analysis The logical approach: morphology Prof Ho

11.20 ‘FASP’ and ‘ISUOG’ Cardiac protocols Sequential analysis in practice: the normal heart Dr Carvalho

11:40 More about vessels – An obstetrician’s approach Cross-over, 3VV, 3VTV and sagittal views Dr Howe

12.15 Lunch and Quiz – Test your skills

SESSION 3 – Chairperson: Dr Victoria Jowett
IMAGES, IMAGES, MORE IMAGES – LOOKING BACK AND LOOKING FORWARD

13:15 Subtle, missed findings… big problems: Would you have referred? An interactive session Dr Carvalho

13:45 Missed diagnosis at screening - legal perspective Mr Leigh

14.15 Tea and Quiz– Test your skills

SESSION 4 – Chairperson: Dr Victoria Jowett
PICKING UP AN ATRIOVENTRICULAR SEPTAL DEFECT

14:45 Anatomical features: the morphological spectrum of AVSD Understanding the essential features Prof Ho

15.05 This fetus has an AVSD: ultrasound and clinical features Familiarising with scan findings of different types of AVSD Dr Bartsota

15.35 Quiz review Dr Carvalho/ Dr Bartsota/ Dr Jowett

16.30 Close
DAY 2: Saturday, 2 June 2018

08.45 Registration and coffee
09.15 Welcome and objectives

SESSION 1 – Chairperson: Dr Michael Rigby
Key lecture
9:30 Abnormal hearts and the sequential segmental analysis
Putting the pieces of the puzzle together
Prof Ho & Dr Carvalho

PICKING UP HYPOPLASTIC LEFT HEART and COARCTATION

10:15 Anatomy: HLHS and Coarctation
Understanding the essentials features
Dr McCarthy

10:35 This fetus has HLHS: ultrasound and clinical features
Recognising the echo spectrum of HLHS
Dr Jowett

10:55 This fetus has ‘cardiac disproportion’
What does it mean?
Dr Bartsota

11.15 Coffee & Quiz – Test your skills

SESSION 2 – Chairperson: Dr Michael Rigby
PICKING UP OUTFLOW TRACT ABNORMALITIES (1)

11:45 Tetralogy of Fallot: the morphological spectrum of ToF
Understanding the essential features
Prof Ho

12.05 This fetus has TOF: ultrasound and clinical features
Recognising the echo spectrum of TOF
TBC

12.30 Lunch and Quiz – Test your skills

SESSION 3 – Chairperson: Dr Margarita Bartsota
PICKING UP OUTFLOW TRACT ABNORMALITIES (2)

13:30 Complete transposition
Anatomy: Understanding the essential features
Prof Ho

13.45 This fetus has TGA: ultrasound and clinical features
Understanding connections and relationships
Dr Carvalho

14.15 Tea and Quiz– Test your skills

SESSION 4 – Chairperson: Dr Margarita Bartsota
IMAGES, IMAGES, MORE IMAGES

14.45 Three-vessel and three-vessel trachea view
What you are picking up and what to look for
Dr Jowett

15.15 Quiz review
Dr Carvalho/ Dr Bartsota/ Dr Jowett

16.30 Close
DAY 3: Sunday, 3 June 2018

IMAGING THE FETAL HEART IN PRACTICE

(Practical Hands-on Training for right-hand scanning and video session, for 2 groups)

The number of delegates will be restricted to 32, divided in 2 groups ('am' & 'pm' session)
Choice of 'am' (starts at 8:30h) or 'pm' session (starts at 10:30h) will be on a first-come, first-served basis.
Please note rooms are set up for right-hand scanning (4 per room during hands-on session)

Whenever possible, fetuses with congenital heart disease will be scanned

Meeting point and times: Please be punctual
Main reception of Royal Brompton Hospital (RBH), Sydney Street, London SW3 6NP
08:30 – 08:45am Group A delegates – 16 delegates
10.30 – 10.45am Group B delegates – 16 delegates

MORNING

Group A – Echo rooms at RBH
09.00 Briefing of scanning/rotation for morning sessions Dr 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 – Surgical Seminar room (4th Level, Chelsea Wing)
11:00 – 12:30 Interactive video clip demonstration of abnormalities Dr Patey

12.30 Lunch - all delegates

AFTERNOON

Group B – Echo rooms at RBH
13.45 Briefing of scanning/rotation for afternoon sessions Dr Carvalho
14.00 Practical hands-on scanning 5 Tutors
14.45 Practical hands-on scanning 6 Tutors

15.30 Tea - all delegates

15.45 Practical hands-on scanning 7 Tutors
16.30 Practical hands-on scanning 8 Tutors

Group A – Surgical Seminar room (4th Level, Chelsea Wing)
13:30 – 15:00 Interactive video clip demonstration of abnormalities Dr Patey

17.15 Close
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LIST OF CONTRIBUTORS

COURSE DIRECTORS

Dr Julene Carvalho
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Reader in Fetal Cardiology, St George’s University of London

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Professor of Cardiac Morphology and Consultant
Royal Brompton Hospital, London
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INVITED FACULTY

Dr Margarita Bartsota
Consultant Fetal and Paediatric Cardiologist
Royal Brompton Hospital, London
Queen Charlotte’s Hospital, London
Chelsea & Westminster Hospital, London

Mr Amar Bhide
Consultant in Obstetrics and Fetal Medicine
Fetal Medicine Unit, St George’s Hospital, London

Ms Bronwyn Botes
Application Specialist
Hitachi Medical Systems

Dr David Howe
Consultant and Honorary Senior Lecturer in Fetomaternal Medicine
Wessex Fetal Medicine Unit, Princess Anne Hospital, Southampton

Dr Hana Jicinska
Visiting Consultant Fetal Cardiologist
St George’s University Hospital, London
U. Hospital and Faculty of Medicine, Masaryk University, Brno, Czech Republic

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Mr Bertie Leigh
Solicitor
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Dr Karen McCarthy
Research Fellow and Co-lead, Cardiac Morphology
Royal Brompton Hospital, London

Dr Olga Patey
Specialty Doctor, Fetal Cardiology
Royal Brompton Hospital, London
Fetal Medicine Unit, St George’s University Hospital

Dr Michael Rigby
Consultant Paediatric Cardiologist
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COURSE FEES

- Day one OR day two: £170
- Day one AND day two: £320
- Day one, two and three: £460

Course fees include course refreshments, course materials and ISUOG core membership until December 2018

COURSE ADMINISTRATOR

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