



Royal Brompton
and Harefield
NHS Trust



St George's Healthcare
NHS Trust

Effective Prenatal Screening of Congenital Heart Disease

7-9 May 2009

Brompton Fetal Cardiology
St George's Fetal Medicine Unit



Approved by the
International Society for Ultrasound
in Obstetrics and Gynaecology



CPD/CSE accreditation ap-
plied for

COURSE ORGANISERS:

Dr J S Carvalho
Prof S Y Ho

To be held at the National Heart and Lung Institute
Royal Brompton Hospital, London






EFFECTIVE PRENATAL SCREENING OF CONGENITAL HEART DISEASE

Now in its ninth year, the course maintains its successful format and provides new lecture topics, enhanced video sessions, interactive echo-anatomical demonstration and a live session. The programme incorporates use of colour and power Doppler throughout 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 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 has been specifically designed to address the varying interests and needs of delegates and provides options 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 introduce/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

THURSDAY, 7TH MAY 2009

DAY 1: THE FUNDAMENTALS

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

SESSION 1 – CHAIRPERSON: PROF. BASKY THILAGANATHAN

FOUNDATION KNOWLEDGE

09.30	Basic and safe ultrasound principles	Mr Cummins
	<i>Setting up your equipment to get the most of your images</i>	
10.00	Sequential segmental analysis – <i>the logical approach to describing heart malformations</i>	Dr Carvalho
10.30	<i>Coffee & Quiz</i>	

SESSION 2 – CHAIRPERSON: PROF. BASKY THILAGANATHAN

THE NORMAL FOUR CHAMBERS

11.00	Anatomical features	Prof Ho
	<i>Recognising normal structures and their spatial relationship</i>	
	Situs, structure and technique of imaging	Dr Carvalho
	<i>Finding the 4 chambers in the 'easy and difficult to scan' patient</i>	
11:50	Abnormalities of the atrioventricular junction	Dr Carvalho & Prof Ho
	<i>An interactive echo-anatomical demonstration</i>	
12.15	<i>Lunch and quiz</i>	

SESSION 3 – CHAIRPERSON: DR. MICHAEL RIGBY

PICKING UP AN ATRIOVENTRICULAR SEPTAL DEFECT

13.15	Anatomical features: <i>Recognising the structures</i>	Prof Ho
	<i>This fetus has an AVSD: ultrasound and clinical features</i>	Dr. Carvalho

SESSION 4 – CHAIRPERSON: MR. ARIS PAPAGHEORGHIOU

THE NORMAL VESSELS

14.00	Anatomical features	Miss McCarthy
	<i>Recognising normal vessels and their spatial relationship</i>	
	Ultrasound features	Dr Daubeney
	<i>Recognising them in multiple views</i>	
14.45	<i>Tea and quiz</i>	
15.05	LIVE SESSION: Scanning the normal heart	Dr Carvalho
15.40	Quiz review	
16.15	Close	



FRIDAY, 8TH MAY 2009
DAY 2: BEYOND THE FUNDAMENTALS

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

SESSION 1 – CHAIRPERSON: DR. ELLIOT SHINEBOURNE
SEEING BEYOND 4 CHAMBERS AND VESSELS

09.30 Improving screening: *training* Dr Uzun
and audit Dr Sairam
10.00 Heart malformations - *a geneticist's perspective* Dr Kumar
10.30 *Coffee & Quiz 1*

SESSION 2 – CHAIRPERSON: DR. ELLIOT SHINEBOURNE
PICKING UP A HYPOPLASTIC LEFT HEART

11.00 Anatomical features Miss McCarthy
Recognising the structures
This fetus has HLHS: ultrasound and clinical features Dr Allan
Familiarising with the echo spectrum of HLHS
11.45 Abnormalities of the ventriculo-arterial junction Dr Carvalho & Prof Ho
An interactive echo-anatomical demonstration
12.15 *Lunch and quiz 1*
13.15 Quiz 1 review

SESSION 3 – CHAIRPERSON: PROF. ERIK MEIJBOOM
PICKING UP A TETRALOGY OF FALLOT

13.45 Anatomical features Prof Ho
Recognising the structures
This fetus has TOF: ultrasound and clinical features Dr Allan
Familiarising with the echo spectrum of TOF
14.30 *Tea & Quiz 2*

SESSION 4 – CHAIRPERSON: PROF. ERIK MEIJBOOM
PICKING UP A COMPLETE TRANSPOSITION

15.00 Anatomical features Prof Ho
Recognising the structures
This fetus has TGA: ultrasound and clinical features Dr Carvalho
Familiarising with the echo spectrum of TGA
15.45 Quiz 2 review
16.15 Paediatric cardiac surgery Mr Ghez
A journey through the heart
16.30 Close



SATURDAY, 9TH MAY 2009

DAY 3: IMAGING THE FETAL HEART IN PRACTICE

(Practical Hands-on Training and video session for 2 groups)

The number of delegates will be restricted to 32

(4 per room during hands-on session – am/pm)

Choice of am or pm session will be on “first-come, first served basis”

MEETING POINT AND TIMES:

Main reception of Royal Brompton Hospital, Sydney Street, London SW3 6NP

Please be punctual

8.30 - 8.45am Group A delegates

10.30 - 10.45am Group B 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/Tea (all delegates)	
11.00	Practical hands-on scanning 3	Tutors
11.45	Practical hands-on scanning 4	Tutors

Group B – Cardiology Seminar room (3rd Level, Chelsea Wing)

11:00 – 12:30	Interactive video clip demonstration of abnormalities	J Wolfenden
12.30	Lunch (all delegates)	

AFTERNOON

Group A – Cardiology Seminar room (3rd Level, Chelsea Wing)

13:30 – 15:00	Interactive video clip demonstration of abnormalities	J Wolfenden
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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	Coffee/Tea (all delegates)	
15.45	Practical hands-on scanning 7	Tutors
16.30	Practical hands-on scanning 8	Tutors
17.15	Close	

COURSE FEES

Day one or day two only - £120.00

Day one and day two - £230.00

Days one, two and three - £320.00

Course fees include VAT, course refreshments and course materials



Effective Prenatal Screening of Congenital Heart Disease 7th, 8th and 9th May 2009

List of Contributors

Course Directors

- Dr Julene Carvalho** **Consultant Fetal Cardiologist**
Royal Brompton Hospital and St George's Hospital, London
- Prof S Yen Ho** **Professor of Cardiac Morphology/ Honorary Consultant**
National Heart and Lung Institute
Imperial College London / Royal Brompton Hospital, London

Invited Faculty

- Dr Lindsey Allan** **Consultant Fetal Cardiologist**
Harris Birthright Centre for Fetal Medicine
King's College Hospital
- Mr Daniel Cummins** **Applications Specialist**
Olympus KeyMed
- Dr Piers Daubeney** **Consultant Paediatric and Fetal Cardiologist**
Royal Brompton Hospital, London
- Mr Olivier Ghez** **Consultant Congenital Cardiac Surgeon**
Royal Brompton & Harefield NHS Trust, London
- Dr Alison Groves** **Consultant Paediatrician**
St. Peter's Hospital, Chertsey and
Honorary Consultant
Royal Brompton Hospital, London
- Dr Dhavendra Kumar** **Consultant Geneticist**
University Hospital of Wales
- Miss Karen McCarthy** **Researcher**
Royal Brompton Hospital, London
- Prof Erik Meijboom** **Professor of Paediatric Cardiology**
Division of Paediatric Cardiology
University Hospital of Lausanne, Switzerland
- Mr Aris Papageorgiou** **Consultant in Obstetrics and Fetal Medicine**
Fetal Medicine Unit, St George's Hospital, London
- Dr Michael Rigby** **Consultant Paediatric Cardiologist**
Royal Brompton Hospital, London
- Dr Shanthi Sairam** **Associate Specialist in Fetal Medicine & Fetal Cardiology**
Fetal Medicine Unit, St George's Hospital, London
- Dr Elliot Shinebourne** **Consultant Paediatric Cardiologist**
Royal Brompton Hospital, London
- Prof Basky Thilaganathan** **Consultant Obstetrician and Director**
Fetal Medicine Unit, St George's Hospital, London
- Dr Orhan Uzun** **Consultant Paediatric and Fetal Cardiologist**
University Hospital of Wales
- Ms Jo Wolfendon** **Senior Paediatric & Fetal Echo Technician**
Royal Brompton Hospital, London

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administrative and financial support from*

