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**Scottish Paediatric**

 **Cardiac Service**

**ECHOCARDIOGRAPHY IN**

**PAEDIATRIC CONGENITAL HEART DISEASE**

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***Royal Hospital for Children & Queen Elizabeth University Hospital, Glasgow***

[**www.paediatricecho.co.uk**](http://www.paediatricecho.co.uk)

**Overview**

The course provides clinically relevant lectures, case studies and hands-on small group tutorial on performing echocardiography with participating volunteer paediatric patients, delivered by consultant paediatric cardiologists, consultant neonatologist with expertise in cardiology and advanced cardiac physiologists with ESC accreditation in congenital heart disease echocardiography. Those with a basic level of experience in Echocardiography will find it much easier to follow. Course lecture handouts will be provided via the course website: http://www.paediatricecho.co.uk/. The course fills quickly so early applications are advised.

***Day 1***

***Wednesday 24th April, 2024***

**Venue: Teaching and Learning Centre, 1st Floor, Room L1-004b**

**09.00 – 09.15** **Registration**

**Lectures:**

**09.15 – 09.20**  Maria Ilina Introduction

**09.20 – 10:40** Stuart Lilley The Normal Echo Study

 Practical Physics & Instrumentation

**10:40 – 11.00**  **~ Tea/Coffee ~**

**11.00 – 12.30** Brodie Knight Normal anatomy, segmental analysis &

 morphology

**12.30 – 13:30** Lindsey HunterAssessment of ventricular function

Cardiomyopathies & ALCAPA

 **13:30 – 14:15 ~ Lunch ~**

**14:15 – 14.45** (TBC) PDA

**14.45 – 15.45** Nicholas Martin ASD/PAPVD/TAPVD

**15:45 - 16:00 ~ Tea/coffee ~**

**16.00 – 17.00** Emma Finlay VSD, AVSD

***Day 2***

***Thursday 25th April, 2024***

**Venue: Teaching and Learning Centre, 1st Floor, Room L1-004b**

**Lectures:**

**9.00 – 10:00** Maria Ilina Right-sided obstructive lesions

**10:00 – 10:40** (TBC) Univentricular heart and TCPC

**10:40 – 11:00 ~ Tea/coffee ~**

**11:00 – 12:00** (TBC) Left-sided obstructive lesions

**12:00 – 13:00** Neil Patel Echocardiography in Neonatology

**13:00 – 13:45 ~ Lunch ~**

**13:45 – 14:15** Ben Smith Coarctation and Ao arch anomalies

**14:15 – 15:15** Ben Smith Echocardiography in postoperative follow up

**15:15 - 15:30 ~ Tea/coffee ~**

**15:30 – 16:30** Lesley ArmourComplex biventricular heart

**16:30 – 17.30** Lindsey Hunter Fetal Echocardiography

**17:30 – 18:30** Stuart Lilley Quiz

**19.30** **Course Dinner: (venue TBC)**

***Day 3***

***Friday 26th April, 2024***

**Venue: Teaching and Learning Centre, Clinical Skills Area**

**Practical Studies:**

**09:00 – 10:45** M-mode, 2D echo and Doppler. Image acquisition and optimisation

**10:45 – 11:00 ~ Tea/coffee ~**

**11:00 – 13:00** Normal study

HeartWorks

**13:00 – 13:45 ~ Lunch ~**

**13:45 – 15:30** “Simple” congenital lesions (ASD, VSD, AS, PS, PDA)

 HeartWorks

**15:30 – 15:50** **~ Tea/coffee ~**

**15:50 – 17:30** “Moderate” (ToF, TGA) and “complex” (DORV, complex TGA, common arterial trunk, PA/VSD, PA/IVS, CCTGA, Ebstein anomaly) biventricular congenital cardiac lesions

3D models

***Day 4***

***Saturday 27th April, 2024***

**Venue: Teaching and Learning Centre, Clinical Skills Area**

**Practical studies:**

**10.00 –12:30** Simple, Moderate, Complex biventricular and univentricular hearts

 HeartWorks

 3D models

**Please complete and hand in course evaluation forms, then receive password to download handouts**

**~ End of Course ~**

**COURSE FACULTY**

**Ms Lesley Armour, Paediatric Cardiac Physiologist**

**RHC Glasgow**

**Dr Richard Ferguson, Consultant Paediatric Cardiologist**

**RHCYP, Edinburgh and RHC Glasgow**

**Ms Emma Finlay, Lead Cardiac Physiologist**

**RHC Glasgow**

**Dr Pankaj Gupta, Consultant Paediatric Cardiologist**

**RHC Glasgow**

**Dr Amanda Hunter, Consultant Adult Congenital Cardiologist**

**Golden Jubilee National Hospital, Glasgow**

**Dr Lindsey Hunter, Consultant Paediatric Cardiologist**

**RHC Glasgow**

**Dr Maria Ilina, Consultant Paediatric Cardiologist**

**RHC Glasgow**

**Dr Brodie Knight, Consultant Paediatric Cardiologist**

**RHC Glasgow**

**Mr Stuart Lilley, Consultant Cardiac Physiologist**

**RHC Glasgow**

**Ms Lynsey McIntyre, Senior Cardiac Physiologist**

**RHC Glasgow**

**Mr Nicholas Martin, Cardiac Physiologist**

**RHC Glasgow**

**Dr Patrick Noonan, Consultant Paediatric Cardiologist**

**RHC Glasgow**

**Dr Neil Patel, Consultant Neonatologist**

**RHC Glasgow**

**Dr Benjamin Smith, Consultant Paediatric Cardiologist**

**RHC Glasgow**

**Course Co-Directors: Lynsey McIntyre, Lesley Armour, Maria Ilina**

**Course Administrator: Glasgow Children’s Hospital Charity**

**Course website** [**www.paediatricecho.co.uk**](http://www.paediatricecho.co.uk)

**This course would not be possible without the generous support from:**

**GE Healthcare**

**HeartWorks**