



**Scottish Paediatric  
Cardiac Service**



# **ECHOCARDIOGRAPHY IN PAEDIATRIC CONGENITAL HEART DISEASE**



*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 24<sup>th</sup> April, 2024**

**Venue: Teaching and Learning Centre, 1<sup>st</sup> 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 Hunter                      Assessment of ventricular function  
Cardiomyopathies & ALCAPA**

**13:30 - 14:15      ~ Lunch ~**

**14:15 - 14.45      Pankaj Gupta                      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 25<sup>th</sup> April, 2024**

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

**Lectures:**

<b>9.00 - 10:00</b>	Maria Ilina	Right-sided obstructive lesions
<b>10:00 - 10:40</b>	Amanda Hunter	Univentricular heart and TCPC
<b>10:40 - 11:00</b>	~ <b>Tea/coffee</b> ~	
<b>11:00 - 12:00</b>	Patrick Noonan	Left-sided obstructive lesions
<b>12:00 - 13:00</b>	Anne-Marie Heuchan	Echocardiography in Neonatology
<b>13:00 - 13:45</b>	~ <b>Lunch</b> ~	
<b>13:45 - 14:15</b>	Ben Smith	Coarctation and Ao arch anomalies
<b>14:15 - 15:15</b>	Ben Smith	Echocardiography in postoperative follow up
<b>15:15 - 15:30</b>	~ <b>Tea/coffee</b> ~	
<b>15:30 - 16:30</b>	Lesley Armour	Complex biventricular heart
<b>16:30 - 17.30</b>	Lindsey Hunter	Fetal Echocardiography
<b>17:30 - 18:30</b>	Stuart Lilley	Quiz
<b>19.30</b>	<b>Course Dinner:</b>	<b>(venue TBC)</b>

**Day 3**  
**Friday 26<sup>th</sup> April, 2024**

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

**Practical Studies:**

<b>09:00 - 10:45</b>	M-mode, 2D echo and Doppler. Image acquisition and optimisation
<b>10:45 - 11:00</b>	~ <b>Tea/coffee</b> ~
<b>11:00 - 13:00</b>	Normal study  HeartWorks
<b>13:00 - 13:45</b>	~ <b>Lunch</b> ~
<b>13:45 - 15:30</b>	“Simple” congenital lesions (ASD, VSD, AS, PS, PDA)  HeartWorks
<b>15:30 - 15:50</b>	~ <b>Tea/coffee</b> ~
<b>15:50 - 17:30</b>	“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 27<sup>th</sup> 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**

**Ms Emma Finlay, Lead Cardiac Physiologist  
RHC Glasgow**

**Dr Pankaj Gupta, Consultant Paediatric Cardiologist  
RHC Glasgow**

**Dr Anne-Marie Heuchan, Consultant Neonatologist  
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 Benjamin Smith, Consultant Paediatric Cardiologist  
RHC Glasgow**

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

**Course Administrator: Project Manager, 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**