Scottish Paediatric Cardiac Service

NHS Greater Glasgow and Clyde

# ECHOCARDIOGRAPHY IN PAEDIATRIC CONGENITAL HEART DISEASE

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

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*
# *Tuesday 14th July, 2026*

**Venue: Teaching and Learning Centre**

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|---|---|---|
| **08.45 – 09.00** | **Registration** | |
| **Session 1 – Chair: Georgios Meridis** | | |
| **09.00 – 09.10** | Maria Ilina | Welcome and introduction |
| **09.10 – 10:00** | (Speaker TBC) | Physics of the ultrasound |
| **10.00 – 11:00** | (Speaker TBC) | Normal anatomy, segmental analysis & morphology |
| **11:00 – 11.15** | ~ **Tea/Coffee** ~ | |
| **Session 2 – Chair: Maria Ilina** | | |
| **11.15 – 11:45** | Lynsey McIntyre | Normal study and reporting |
| **11.45 – 12:30** | Georgios Meridis | Assessment of ventricular function<br>Cardiomyopathies |
| **12.30 – 13:00** | Georgios Meridis | Congenital anomalies of coronary arteries |
| **13:00 – 14:00** | ~ **Lunch** ~ | |
| **Session 3 – Chair TBC** | | |
| **14:00 – 14.45** | Emma Finlay | VSD, AVSD |
| **14.45 – 15.30** | (Speaker TBC) | Echocardiography in Neonatology |
| **15:30 - 15:45** | ~ **Tea/coffee** ~ | |
| **Session 4 – Chair TBC** | | |
| **15.45 – 16.40** | Maria Ilina | Right-sided obstructive lesions |
| **16.40 – 17.30** | Georgios Meridis | Left-sided obstructive lesions |

## *Day 2*
## *Wednesday 15th July, 2026*

**Venue: Teaching and Learning Centre**

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|---|---|---|
| **Session 1 – Chair TBC** | | |
| **9.00 – 10:00** | (Speaker TBC) | Fetal Echocardiography |
| **10:00 – 11:00** | Lesley Armour | Transposition of the great arteries and double outlet right ventricle |
| **11:00 – 11:15** | ~ **Tea/coffee** ~ | |
| **Session 2 – Chair TBC** | | |
| **11:15 – 12:00** | Nicholas Martin | Atrial septal defect, total and partial anomalous venous drainage |
| **12:00 – 13:00** | Lesley Armour | Rare and complex biventricular: CAT, Ebstein anomaly, isomerism, criss-cross heart Uhl anomaly, giant left atrium… |
| **13:00 – 13:45** | ~ **Lunch** ~ | |
| **Session 3 – Chair TBC** | | |
| **13:45 – 14:45** | (Speaker TBC) | Echocardiography in postoperative follow up |
| **14:45 – 15:30** | **(**Speaker TBC) | Aortic arch anomalies and PDA |
| **15:30 - 15:45** | ~ **Tea/coffee** ~ | |
| **Session 4 – Chair: TBC** | | |
| **15:45 – 16.30** | Maria Ilina | Univentricular heart |
| **16:30 – 17:30** | (TBC) | Guest lecture |
| **19.30** | **Course Dinner:** | **(venue TBC)** |

# *Day 3*
# *Thursday 16th July, 2026*

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

**Practical Studies:**

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|---|---|
| **09:00 – 10:45** | M-mode, 2D echo and Doppler. Image acquisition and optimisation, normal study |
| **10:45 – 11:00** | ~ **Tea/coffee** ~ |
| **11:00 – 13:00** | Normal study, "Simple" congenital lesions (ASD, VSD, AS, PS, PDA)<br><br>HeartWorks |
| **13:00 – 13:45** | ~ **Lunch** ~ |
| **13:45 – 15:30** | "Simple" (ASD, VSD, AS, PS, PDA) and "moderate" (ToF, TGA) congenital lesions<br><br>HeartWorks |
| **15:30 – 15:50** | ~ **Tea/coffee** ~ |
| **15:50 – 17:30** | "Complex" (DORV, complex TGA, common arterial trunk, PA/VSD, PA/IVS, CCTGA, Ebstein anomaly) biventricular and univentricular congenital cardiac lesions<br><br>3D models |

## *Day 4*
## *Friday 17th July, 2026*

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

**Practical studies:**

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|---|---|
| **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 DIRECTORS

**Dr Maria Ilina, Consultant Paediatric Cardiologist**
**RHC Glasgow**

**Mr Nicholas Martin, Cardiac Physiologist**
**RHC Glasgow**

**Dr Georgios Meridis**
**Consultant Paediatric Cardiologist**
**RHCYP Edinburgh**

**Course Administrator: Project Manager, Glasgow Children's Hospital Charity**

**Course website www.paediatricecho.co.uk**

**This course would not be possible without the generous support from:**
**GE Healthcare, HeartWorks**