

Multimodality Imaging in ACHD and PH

with implementation of ISACHD protocol

Day 1 – Thursday 5th September

09:00-09:15 Registration
09:15-09:30 Welcome and Introduction

Session 1: Basic cardiac structure

09:30-09:50 Morphology of the normal heart
09:50-10:10 ACHD Echo protocol
10:10-10:30 How to perform echocardiography for ACHD patients

Session 2: ACHD challenges

10:30-10:50 Echocardiographic assessment of LV diastolic and systolic function.
10:50-11:10 LV Non-compaction in ACHD
11:10-11:30 Echocardiographic assessment of RV diastolic and systolic function
11:30-11:50 Exercise echocardiography for ACHD
11:50-12:00 Questions

12:00-12:45 Lunch break

Session 3 Septal defects – Atrial Septal defects (ASD)

12:45-13:00 Morphology
13:00-13:15 Echocardiographic assessment using ISACHD protocol for ASD
13:15-13:30 Echo assessment for suitability of device closure of ASD
13:30-13:45 ASD when it is not so simple I (PAH, Sinus venosus ASD and unroofed coronary sinus), role of CMR.
13:45-14:05 ASD when it is not so simple II: Tricks & traps
14:05-14:15 Questions

Session 4 Ventricular Septal defects (VSD)

14:15-14:45 Morphology
14:45-15:00 Echocardiographic assessment VSD using ISACHD protocol. 15:00-15:15 Late complications of small VSD
15:15-15:30 Questions
15:30-15:45 Break

Session 5 Atrioventricular Septal defects (AVSD)

15:45 - 16:05 Morphology
16:05 - 16:20 Echocardiographic assessment AVSD.
16:20 - 16:45 Echocardiographic assessment of repaired AVSD
16:45 - 17:00 Tips and tricks in assessing shunt lesions
17:00 - 17:20 Use of CT in ACHD

Day 2 – Friday 6th September

Session 6 Transposition of the great arteries (TGA)

09:10-09:30 Morphology
09:30-09:50 Echocardiography of the coronary arteries in TGA pre ASO
09:50-10:10 Echocardiographic assessment of TGA after atrial switch repair.
10:10-10:25 Echocardiographic assessment of TGA after arterial switch repair
10:25-10:40 Echo assessment of patients post Rastelli repair
10:40-10:55 CMR in assessment of TGA including surgically repaired patients
10:55-11:10 Questions
11:10-11:25 Break

Session 7 Congenitally corrected transposition of the great arteries (ccTGA)

11:25-11:35 Morphology
11:35-12:05 Echocardiographic assessment of ccTGA
12:05-12:20 CMR in assessment of CC-TGA
12:20-12:35 Subpulmonary LV in systemic RV – does it matter?
12:35-12:45 Questions

12:45-13:30 Lunch break

Session 8 Disease of the left ventricular inflow and outflow tract (including sub-AS, valvar AS, supra-AS and CoA)

13:30-13:45 Morphology
13:45-14:10 Echo assessment of LV inflow abnormality
14:10-14:30 Echocardiographic assessment LV outflow tract lesions
14:30-14:50 CMR assessment
14:50-15:00 Questions

Session 9 Congenital tricuspid valve abnormalities (Ebstein anomaly of the tricuspid valve)

15:00-15:10 Morphology
15:10-15:30 Echocardiographic assessment using ISACH protocol
15:30-15:50 Congenital TV abnormality and treatment options
15:50-16:05 CMR assessment of Ebstein anomaly
16:05-16:15 Questions

Session 10 Tetralogy of Fallot

16:15-16:30 Morphology
16:30-16:45 Echocardiography for Tetralogy of Fallot +/- PA
16:45-17:05 Echocardiographic assessment post ToF repair
17:05-17:20 Post ToF repair – what CMR can offer
17:20-17:30 Questions

Day 3 – Saturday 7th September

Session 11 Physiologically Univentricular heart

09:00-09:20 Morphology
09:20-09:35 Echocardiographic assessment
09:35-09:55 Echocardiographic assessment of the adult patient post Fontan repair
09:55 -10:10 CMR in assessment of cardiac anatomy and surgical results.
10:10 -10:20 Questions

Session 12 ACHD with pulmonary hypertension including ES

10:20-10:35 Morphology
10:35-11:05 Echocardiographic assessment,
11:05-11:25 3D Assessment of RV function
11:25-11:45 CMR in ACHD PH
11:45-12:00 CT in ACHD PH
12:00-12:15 Questions

12:15-13:00 Lunch Break

Session 13 ACHD challenges

13:00-13:15 Echocardiography for endocarditis assessment
13:15-13:30 Echo assessment of ACHD during Pregnancy
13:30-13:50 Congenital coronary artery abnormalities
13:50-14:10 Echocardiographic assessment of pericardial effusion, constriction and restriction in ACHD.
14:10-14:30 Pacing & Optimisation in ACHD

Session 14 Hands-on

14:30-16:30 Live scanning session in small groups with patients and instructors. Also available are workstation based tutorials on post processing including 3D and speckle tracking, strain and strain rate analysis.

Registration:

Registration for 3 days (includes hands-on session): Strictly limited places

Registration for lectures only (2.5 days)

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