



Advanced ECHO workshop

Friday, 25 September

08:00 – 10:30 am (2 hours 30 min)

Transcranial imaging – Focused Cardiac US

- Transcranial Doppler imaging (TCI)

Participants will learn to:

- Understand the relevant neurovascular anatomy, including major intracranial vessels accessible by TCI (middle cerebral artery, anterior cerebral artery, basilar artery).
- Perform a basic TCI examination, using appropriate probe positioning and machine settings to obtain Doppler waveforms.
- Interpret normal TCI waveforms, including recognition of flow direction, velocity, and pulsatility index.
- Recognize and interpret abnormal TCI findings, such as:
 - Elevated flow velocities
 - Absent or reversed flow (in brain death or increased intracranial pressure)
 - Signs of vasospasm or hyperemia

- Congenital Heart Disease: When to call the paediatric cardiologist?

Participants will learn to:

- Recognise the following congenital heart diseases:
 - Tricuspid atresia
 - Pulmonary atresia
 - Total anomalous pulmonary venous return
 - Tetralogy of Fallot
 - Transposition of the great arteries