



**1st ASIA PACIFIC
ECHOCARDIOGRAPHY
COURSE
on CONGENITAL HEART
DISEASE
SINGAPORE
March 8th – 10th, 2019**

1st ASIA PACIFIC ECHOCARDIOGRAPHY COURSE ON CONGENITAL HEART DISEASE

8-10th March 2019
Program

Overall Objectives

This course offers a comprehensive basics-to-advanced echocardiographic imaging overview of Congenital Heart Disease. The primary objectives are to advance the knowledge and practical skillset of physicians, trainees and sonographers in the performance and interpretation of congenital heart disease with echocardiography.

Course outline will cover:

- Overview of image acquisition and optimisation of congenital echocardiography.
- Introduction to cardiac morphology and imaging-pathologic correlation with congenital echocardiography.
- Update in basic and advanced techniques to assessing ventricular function in children.
- Overview of complementary diagnostic imaging modalities such as 3D printed models.

Day 1 Friday 8th March 2019

0800 Registration

0830 – 0835 Opening remarks
Ching Kit Chen, Singapore

Session I **Introduction to Echocardiography for Congenital Heart Disease** *Chair: Ching Kit Chen, Singapore*

0835 – 0900 Preparation and image optimisation for paediatric scanning
Tina Almeida, Toronto, Canada

0900 – 0930 Imaging views for Congenital heart disease
Tina Almeida, Toronto, Canada

0930 – 1000 Principles of standardizing measurements for age and body size
Leo Lopez, Palo Alto, USA

1000 - 1030 Coffee break

Session II **Echo-morphology Correlation (I): Situs and abnormalities** **Echo-morphology Correlation (II): Interatrial communications** *Chair: Mark Friedberg, Toronto, Canada*

1030 – 1055 Morphology of normal situs and abnormalities of situs
Andrew Cook, London, UK

1055 – 1120 Echocardiographic assessment of normal situs and abnormalities of situs
Jan Marek, London, UK

1120 – 1145 Morphology of interatrial communications
Andrew Cook, London, UK

1145 – 1210 Echocardiographic assessment of interatrial communications
Bryn Jones, Melbourne, Australia

1210 – 1220 Questions and discussion

1220 – 1330 Lunch

Session III **Echo-morphology Correlation (III): Ventricular septal defects**
Echo-morphology Correlation (IV): Atrioventricular septal defects
Chair: Folkert Meijboom, Utrecht, Netherlands

1330 – 1355 Morphology of ventricular septal defects
Andrew Cook, London, UK

1355 – 1420 Echocardiographic assessment of ventricular septal defects
Deane Yim, Perth, Australia

1420 – 1445 Morphology of atrioventricular septal defects
Andrew Cook, London, UK

1445 – 1510 Echocardiographic assessment of atrioventricular septal defects
Tom Gentles, Auckland, NZ

1510 – 1520 Questions and discussion

1520 – 1550 Coffee Break

Session IV **Echo-morphology Correlation (V): Left-sided obstructive lesions and coarctation**
Chair: Yiu-Fai Cheung, Hong Kong

1550 – 1615 Morphology of LV outflow tract obstruction and coarctation
Andrew Cook, London, UK

1615 – 1640 Echocardiographic assessment of LV outflow tract obstruction and coarctation
Luc Mertens, Toronto, Canada

1640 – 1650 Questions and discussion

Session V**Live scanning (I)**

Chair: Luc Mertens, Toronto, Canada

1650 – 1715

Live scanning – Standard paediatric echocardiogram

Tina Almeida, Toronto, Canada

1715 – 1740

Live scanning – Congenital heart disease (ASD/VSD/AVSD)

Tina Almeida, Toronto, Canada

1740

End of session**Day 2****Saturday 9th March 2019****Session VI****Echo-morphology Correlation (VI): Transposition of the Great Arteries****Echo-morphology Correlation (VII): Congenitally Corrected Transposition of the Great Arteries**

Chair: Deane Yim, Perth, Australia

0830 – 0855

Morphology of transposition of the great arteries

Andrew Cook, London, UK

0855 – 0920

Echocardiographic assessment of transposition of the great arteries

Yiu-Fai Cheung, Hong Kong

0920 – 0945

Morphology of congenitally corrected transposition of the great arteries

Andrew Cook, London, UK

0945 - 1010

Echocardiographic assessment of congenitally corrected transposition

Mark Friedberg, Toronto, Canada

1010 – 1020

Questions and Discussion

1020 – 1050

Coffee break

Session VII**Abnormal origins of the Coronary Arteries**

Chair: Bryn Jones, Melbourne, Australia

1050 – 1115

Abnormal origin of the coronary arteries from the pulmonary arteries:
Echocardiography

Jan Marek, London, UK

1115 – 1140

Abnormal origin of the coronary arteries from the aorta: Echocardiography

Leo Lopez, Palo Alto, USA

1140 – 1205

Abnormal origin of the coronary arteries in Congenital heart disease:
Echocardiography

Luc Mertens, Toronto, Canada

1205 – 1215	Questions and Discussion
1215 – 1315	Lunch
Session VIII	Echo-morphology Correlation (IX): Tetralogy of Fallot Echo-morphology Correlation (X): Double Outlet Right Ventricle <i>Chair: Tom Gentles, Auckland, NZ</i>
1315 – 1340	Morphology of tetralogy of Fallot <i>Andrew Cook, London, UK</i>
1340 – 1405	Echocardiographic assessment of tetralogy of Fallot <i>Deane Yim, Perth, Australia</i>
1405 – 1420	Morphology of double outlet right ventricle <i>Andrew Cook, London, UK</i>
1425 – 1450	Echocardiographic assessment of double outlet right ventricle <i>Bryn Jones, Melbourne, Australia</i>
1450 – 1500	Questions and Discussion
1500 – 1530	Coffee break
Session IX	Echo-morphology Correlation (XI): Functionally Single Ventricle circulations <i>Chair: Mark Friedberg, Toronto, Canada</i>
1530 – 1555	Morphology of the functionally single ventricle <i>Andrew Cook, London, UK</i>
1555 – 1620	Echocardiographic assessment of the functionally single ventricle <i>Jan Marek, London, UK</i>
1620 – 1645	Post-operative assessment after Glenn and Fontan <i>Tom Gentles, Auckland, NZ</i>
1645 – 1710	Assessment of the post-operative adult Fontan patient <i>Folkert Meijboom, Utrecht, Netherlands</i>
1710 – 1720	Questions and Discussion
Session X	Live scanning (II) <i>Chair: Luc Mertens, Toronto, Canada</i>
1720 – 1750	Live scanning – Congenital heart disease <i>Tina Almeida, Toronto, Canada</i>
1750	End of session

Day 3

Sunday 10th March 2019

Session XI

Assessment of ventricular function

Chair: Jan Marek, London, UK

0830 – 0855

Assessment of left ventricular systolic function in Congenital heart disease

Yiu-Fai Cheung, Hong Kong

0855 – 0920

Assessment of left ventricular diastolic function in Congenital heart disease

Mark Friedberg, Toronto, Canada

0920 – 0955

Assessment of right ventricular function in Congenital heart disease

Luc Mertens, Toronto, Canada

0955 – 1020

Assessment of function in Adult Congenital heart disease: What's the difference?

Folkert Meijboom, Utrecht, Netherlands

1020 – 1030

Questions and Discussion

1030 – 1100

Coffee Break

Session XII

Advanced techniques in Congenital heart disease imaging

Chair: Leo Lopez, Palo Alto, USA

1100 – 1125

Introduction to 3D printing in Congenital heart disease

Ching Kit Chen, Singapore

1125 – 1150

Echo-3D printed heart model correlation in the assessment of double outlet right ventricle

Ching Kit Chen, Singapore and Andrew Cook, London, UK

1150 – 1215

Dyssynchrony assessment in Congenital heart disease

Mark Friedberg, Toronto, Canada

1215 – 1240

Novel technology - high frame rate imaging in Congenital heart disease

Luc Mertens, Toronto, Canada

1240 – 1250

Questions and Discussion

Session XIII

Live scanning (III)

Chair: Luc Mertens, Toronto, Canada

1250 – 1320

Live scanning – Ventricular function

Tina Almeida, Toronto, Canada

1320 – 1330

Closing remarks

Luc Mertens, Toronto, Canada

1330

End of course

Course organized by:



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