

# AEPC Basic Course in Paediatric Echocardiography

Children's Heart Center, Skåne University Hospital, Lund University, Lund,  
Sweden

May 29-31, 2024

## Wednesday May 29

<b>Basic applications of echocardiographic imaging and technical aspects</b>	
10.00-10.30	Registration
10.30-10.45	Welcome address
10.45-11.15	Physics of ultrasound and why we need to understand it <i>Misha Bhat, Lund</i>
11.15-12.00	How and when: M-Mode, 2- and 3-dimensional echocardiography <i>Owen Miller, London</i>
12.00-13.00	Lunch and exhibition
13.00-13.30	Echocardiographic quantification, measurements, and pitfalls <i>Owen Miller, London</i>
13.30-14.00	How and when: Pulsed and continuous wave Doppler <i>Katarina Hanseus, Lund</i>
14.00-14.30	How to set the echo machine: equipment, probes and optimization of images acquisition <i>Judith Huynh, Lund</i>
14.30-15.00	Coffee break and exhibition
15.00-15.30	Cardiac function, why and how? <i>Owen Miller, London</i>
16.00-17.00	<i>Time slot reserved for industrial partners</i>
17.00-	<i>Mingle</i>

## Thursday May 30

<b>Echocardiographic examination of the normal and pathologic heart</b>	
08.00-08.30	The segmental sequential approach in echocardiography <i>Ornella Milanesi, Padova</i>
08.30-09.30	Morphology of the normal heart <i>Nina Hakacova, Arthur Barakat</i>
09.30-10.00	Anatomic correlation with echocardiography: what we see in the different echo projections <i>Nina Hakacova, Arthur Barakat</i>
10.00-10.30	Coffee break and manual morphology
10.30-11.00	Anomalies of the systemic and pulmonary venous return <i>Henning Clausen, Lund</i>
11.00-11.30	Shunt lesions <i>Maria Sjöborg-Alpman, Stockholm</i>

11.30-12.00	AV valves <i>Ornella Milanesi, Padova</i>
12.00-13.00	Lunch
13.00-13.30	Right heart obstructive lesions <i>Katrin Fricke, Lund</i>
13.30-14.00	Conotruncal malformations <i>Misha Bhat, Lund</i>
14.00-14:30	Left heart obstructive lesions <i>Katrin Fricke, Lund</i>
14.30-15.00	Coffee break and “manual morphology”
15.00-15.30	How to distinguish between facts and artefacts <i>Owen Miller, London</i>
15.30-16.30	Echo training
19.00	Course dinner

### Friday May 31

<b>Echocardiography in congenital heart disease - going complex and going real</b>	
08.00-09.00	Morphology of major congenital heart defects, morphological demonstration <i>Henning Clausen, Misha Bhat, Katrin Fricke</i>
09.10-10.00	Imaging of the single ventricle <i>Zahraa Alsafi &amp; Katrin Fricke, Lund</i>
09.30-10.00	Coffee and hands on
10.30-11.00	Disorder of laterality <i>Maria Sjöborg Alpman, Stockholm</i>
11.00-11.30	Strain, strain rate, tissue Doppler <i>Zahraa Alsafi, Lund</i>
11.30-12.00	Echocardiography when referring the patient for surgery and interventions <i>Henning Clausen, Lund</i>
12.00-13.00	Lunch and exhibition
13.00-13.30	Echocardiography in the neonate <i>Misha Bhat, Lund, Veronika Frimmel, Lund</i>
13.30-14.00	Ultrasound in Critical Intensive care Unit: why, what, and who? <i>Valeria Perez de Sà, Lund</i>
14.00-14.30	Echo in the postoperative patient <i>Katarina Hanseus, Lund</i>
14.30-15.15	Course conclusion including examination.



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