



# 7<sup>th</sup> EUROPEAN TRANSOESOPHAGEAL ECHOCARDIOGRAPHY COURSE on congenital heart disease

LONDON

April 4<sup>th</sup>-5<sup>th</sup>, 2024

# What is this course about?

This is the seventh dedicated course on transoesophageal echocardiography (TOE) on congenital heart disease providing the participant with the essential theoretical basics, morphological aspects of common lesions in congenital heart disease as well as practical aspects of TOE in children and adults with congenital heart disease. The two-day course will provide hands-on TOE simulator experience, using adult and paediatric mannequins, with particular focus on congenital lesions frequently encountered in clinical practice.

All practical sessions will be directly supervised by experienced TOE operators in this field. Participants will have opportunities to discuss challenging cases with instructors individually. This course is an ideal complementation to the popular "European Echocardiography Course on Congenital Heart Disease". For more information and online registration go to [www.echocardiography-course.com](http://www.echocardiography-course.com).

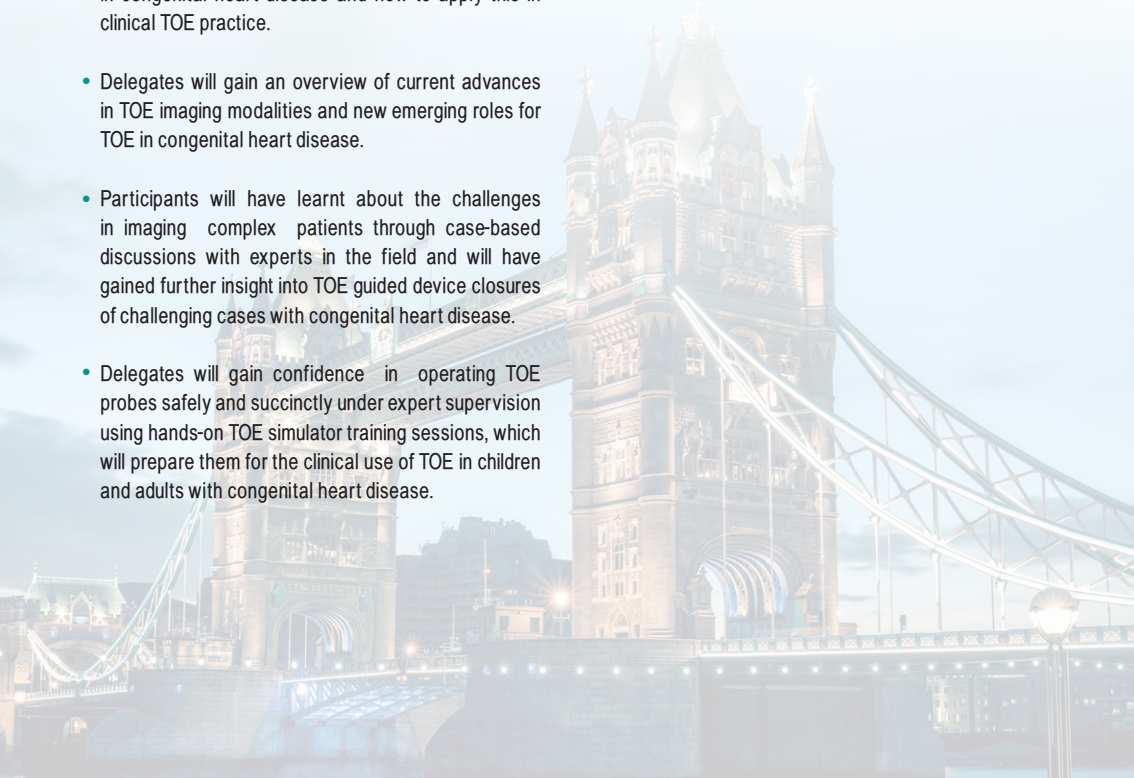
## What will you learn?

- By the end of this course participants will have a good understanding of the physics involved in transoesophageal echocardiography (TOE) and understand indications and limitations of TOE in children and adults with congenital heart disease
- Side-by-side comparison of cardiac morphology and TOE will enable delegates to appreciate the complexity in congenital heart disease and how to apply this in clinical TOE practice.
- Delegates will gain an overview of current advances in TOE imaging modalities and new emerging roles for TOE in congenital heart disease.
- Participants will have learnt about the challenges in imaging complex patients through case-based discussions with experts in the field and will have gained further insight into TOE guided device closures of challenging cases with congenital heart disease.
- Delegates will gain confidence in operating TOE probes safely and succinctly under expert supervision using hands-on TOE simulator training sessions, which will prepare them for the clinical use of TOE in children and adults with congenital heart disease.

## Who should attend?

This course is aimed at clinical staff working in the field of paediatric or adult congenital heart disease.

Whether you are working in paediatric cardiology, cardiac theatres, interventional angiography suites, echocardiography laboratories or specialising in grown-up congenital heart disease this course will expand your knowledge, experience and refresh your TOE practice in patients with congenital heart disease.



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## DAY 1: Thursday, April 4<sup>th</sup>, 2024

- 08:30-09:00** Registration desk opening
- 09:00-09:10** Welcome and introduction  
*Beatrice Bonello and Jan Marek, London*
- 09:10-09:40** TOE views in congenital heart disease: let's start from scratch  
*Beatrice Bonello, London*
- 09:40-10:00** Towards a standard protocol for performing TOE in the operating room  
*Luc Mertens, Toronto*
- 10:00-10:20** Assessment of cardiac function after CHD surgery: the view from the anaesthetist  
*Sue Wright, London*
- 10:20-10:40** TOE in the OR: working under pressure  
*Michelle Carr, London*
- 10:40-11:00** TOE in adults with congenital heart disease  
*Heleen van der Zwaan, Utrecht*
- 11:00-11:15** Discussion
- 11:15-11:45** Coffee break
- 11:45-12:15** Morphology: ASD, VSD, and AVSD  
*Andrew Cook, London*
- 12:15-12:45** TOE assessment in ASD, VSD & AVSD in the OR  
*Kuberan Pushparajan, London*
- 12:45-13:15** TOE-guided CHD procedures in the catheterisation laboratory  
*Beatrice Bonello, London*
- 13:15-13:30** Discussion
- 13:30-14:45** Lunch break
- 14:00-14:45** GE Workshop  
Sharing clinical challenging cases  
Navigating complex clinical case in pediatric Transoesophageal echocardiography  
*Beatrice Bonello, Jan Marek, Luc Mertens*
- 14:45-17:45** Workshop:  
Practising TOE with simulators (adult and baby mannequins)  
Supervised by faculty and GOSH team available for Q&A  
*Beatrice Bonello, Michelle Carr, Jan Marek, Folkert Meijboom, Luc Mertens, Kuberan Pushparajan, Heleen van der Zwaan, Sue Wright*

## DAY 2: Friday, April 5<sup>th</sup>, 2024

- 08:00-08:30** Registration desk
- 08:30-09:15** Demonstration of complex cardiac morphology with outflow tract obstruction and functionally univentricular heart  
*Andrew Cook, London*
- 09:15-09:45** TOE assessment of the left ventricular outflow tract  
*Jan Marek, London*
- 09:45-10:15** TOE assessment of right outflow tract including complex congenital heart disease  
*Luc Mertens, Toronto*
- 10:15-10:45** Morphological and functional TOE assessment of AV valves  
*Heleen van der Zwaan, Utrecht*
- 10:45-11:00** Discussion
- 11:00-11:30** Coffee break
- 11:30-12:00** State of the art: Role of 3D TOE in paediatric CHD - a new frontier in echocardiography  
*Jan Marek, London*
- 12:00-13:00** Illustrative cases of how to use TOE in CHD decision-making:  
Double-outlet right ventricle  
*Kuberan Pushparajan, London*  
Transposition after arterial switch  
*Luc Mertens, London*  
Ebstein's anomaly  
*Beatrice Bonello, London*  
Single ventricle after Fontan  
*Heleen van der Zwaan, Utrecht*
- 13:00-14:15** Lunch break
- 13:30-14:15** GE Workshop  
Hands-On and practical post-processing echo images on EchoPAC  
Mastering EchoPAC: Hands-On post-processing of pediatric TOE images  
*Beatrice Bonello, Jan Marek, Luc Mertens*
- 14:15-17:15** Workshop:  
Practising TOE with simulators (adult and baby mannequins)  
Supervised by faculty and GOSH team available for Q&A  
*Beatrice Bonello, Michelle Carr, Jan Marek, Folkert Meijboom, Luc Mertens, Kuberan Pushparajan, Heleen van der Zwaan, Sue Wright*
- 17:15-17:30** Closing remarks & Adjourn and EBAC evaluation
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## Course Organisation

Beatrice Bonello & Jan Marek (London)

## Course Directors

Jan Marek (London)

Luc Mertens (Toronto)

Folkert Meijboom (Utrecht)

## Registration fees

*Early Bird:* € 690,00 until 16/01/2024 (VAT included)

*Standard:* € 770,00 from 17/01/2024 (VAT included)

## Congress Location

Royal College of Anaesthetists

Churchill House

35 Red Lion Square

London WC1R 4SG

## Secretariat

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Total effective education time of 13h:45m equalling 13 of EBAC® CE credits

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To register and for further information see: [www.echocardiography-course.com](http://www.echocardiography-course.com)

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