

NEW HORIZONS IN ECHOCARDIOGRAPHY 2023

echo.newhorizons@gmail.com

Course Directors:

Ferande Peters, Farouk Mookadam, Justiaan Swanevelder, Petros Nihoyannopoulos

International Faculty:

Jeroen Bax (*Leiden, The Netherlands*)

Muhamed Saric (*New York, USA*)

Local Faculty:

Blanche Cupido (*Cape Town, South Africa*)

Matthew Gibbs (*Cape Town, South Africa*)

Farouk Mamdoo (*Johannesburg, South Africa*)

Anupa Patel (*Johannesburg, South Africa*)

Edwan Turton (*Bloemfontein, South Africa*)

Pieter Van Der Bijl (*Cape Town, South Africa*)

This year's course is designed to cover key topics in cardiology with very clearly illustrated teaching cases supplemented by 3 to 5 key take home points. This year's programme consists of an online pre-course, while the rest of the course is live. Cardiologists, physicians with prior basic echocardiography training, cardiac technologists and anaesthetists will benefit from the course. Our learning labs are designed to focus on skills transfer and will ensure that participants leave with the skill set to build on going forward. The TEE course will be 85% live cases. Kindly note that the available spaces for the TEE course and the learning labs is limited.

Pre-course ONLINE ZOOM Meeting

Friday, 10th November 2023

Time: 13:40 – 17:40

SESSION 1 (online ZOOM meeting): TTE and TEE

Theme: Making accurate measurements and assessments.

13:40 Welcome. *F. Peters*

13:45 The key left side measurements. *F. Peters*

14:00 How to measure LVEF. *P. van der Bijl*

14:20 How to make aortic measurements. *P. van der Bijl*

14:35 How to make RV measurements. *B. Cupido*

15:00 How to measure pulmonary artery pressure. *F. Peters*

15:15 **Tea.**

SESSION 2: Concurrent TTE and TEE Session

TTE Track,

- 15:35 Assessment of MR. *F. Peters*
16:00 Assessment of AR. *P. Nihoyannopoulos*
16:25 Assessment of AS. *A. Patel*
16:50 Assessment of tricuspid regurgitation. *J. Bax*
17:10 Tissue doppler. *A. Patel*

TEE Track,

- 15:40 Indications and contraindications. *F. Mamdoo*
15:50 Probe manipulation principles. *J. Swanevelder*
16:10 TEE views. *F. Mookadam*
16:50 Sedation principles and TEE. *J. Swanevelder*
Image corner – Qualitative Concepts
17:10 Aortic valve. *F. Mamdoo*
17:30 Mitral valve. *J. Swanevelder*
17:40 Closure. *F. Mamdoo*
-

PRE-COURSE TEE WORKSHOP

Thursday, 16th November 2023

Practical training in TEE – Hands on training, simulator training and clinical vignettes.

Guest International operator: *M. Saric*

Course Faculty operators: *F. Mookadam, F. Mamdoo, F. Peters, E. Turton, J. Swanevelder.*

08:30 – 12:00 LIVE TEE COURSE WITH HANDS ON COMPONENT

Live interactive case demonstration and training. Using the heart-works simulator to improve technique with case demonstration. *F. Mookadam, F. Mamdoo, F. Peters, M. Saric and J. Swanevelder.*

- Kindly note that space is limited to 25 participants.
- The pre-course online session on the 10th November is mandatory for TEE delegates.
- The venue will be Steve Biko Academic Hospital.

12:15 **Lunch**

Cases demonstration and key points.

13:00 TEE for infective endocarditis- pearls and pitfalls. *F. Peters*

13:20 Case studies of complications of infective endocarditis. *M. Saric*

13:35 TEE for right sided heart valves. *F. Mamdoo*

13:55 TEE for TAVI implantation. *M. Saric*

14:10 TEE or complications post TAVI. *M. Saric*

14:30 When to perform a TEE for the Stroke patient? *F. Mookadam*

14.45 TEE for LA appendage closure. *M. Saric*

15.00 Meeting closes.

Main Course (LIVE)

Friday, 17th November 2023.

Venue: Wits School of Public Health, Johannesburg, SA

7:30 - 8:30am: Registration

8:30 Welcome. *F. Peters*

Session 1 – Key echocardiographic principles in 2023

Chair: *J. Bax and F. Mookadam*

8:35 Evaluation of Left ventricular systolic function in 2023. *M. Saric*

08:55 Left ventricular diastology –pearls and pitfalls. *F. Mookadam*

9:20 Evaluation of Right ventricular function – pearls and pitfalls. *B. Cupido*

09:45 Practical tips in evaluating cases of pulmonary hypertension *F. Peters*

10:10 Case Quiz.

10:30 **Tea**

Session 2 – The Bijoy Khanderia session on mitral valvular disease

Chair: *F. Peters, P. Nihoyannopoulos*

10:50 Tribute to a mentor *F. Peters*

10:55 Tribute to a peer *P. Nihoyannopoulos*

11:00 How to assess mitral stenosis in 2023. *M. Saric*

11:25 Challenges in assessing degenerative MR. *F. Mookadam*
11:50 Ischemic MR – illustrative case studies. *P. Nihoyannopoulos*
12:15 Challenges in the assessment of functional MR when considering intervention. *J. Bax*
12:40 **Lunch**

Session 3: Heart Failure

Chair: A. Sarkin, D. Smith

13:40 Is EF still useful for chronic heart failure in 2023. *D. Smith*
13:55 Case Studies: Is this heart failure? Read with the experts. *F. Mookadam*
14:20 Practical tips on how to use echocardiography to improve selection of the patient who will benefit from CRT in heart failure. *J. Bax*
14:45 Case studies in acute heart failure post myocardial infarction. *M. Saric*
15:10 Lung ultrasound – Basic techniques and clinical application in the heart failure patient.
15:30 **Tea**

Learning Lab workshops

Time: 15:50 – 18:00

Delegates to rotate through Learning Labs (2 x 1 hour session).

1) Prosthetic Valves 101: All you need to learn technically

P. Van der Bijl, A. Patel, P. Nihoyannopoulos

- Practical transthoracic imaging
- Practical hemodynamic pearls.
- When to use TEE
- When to use adjunctive imaging-fluoroscopy CT.

2) Vascular toolbox for contemporary practice:

M. Gibbs, E. Turton, J. Swanevelde.

How to use ultrasound for vascular – principles. *M. Gibbs*

How to incorporate ultrasound for vascular access in the cath lab. *A. Singh*

Supervised vascular access laboratory: *M. Gibbs, E. Turton, J. Swanevelde, A. Singh, F. Peters*

- a) Femoral artery.
- b) Femoral vein.
- c) Radial artery.

d) Internal jugular.

e) How to practice vascular access using key methods on a gel model.

Saturday, 18th November 2023

Session 4: Early morning learning labs

Kindly note that ***booking is essential*** for participation in the early morning learning labs as space is limited to 20 participants/sessions to optimize practical learning. A maximum of 40 participants can be accommodated.

7:00 How to incorporate strain into your clinical practice. *P. Van Der Bijl, B. Cupido, J. Bax*
Technical scanning and interpretation case studies.

▪ How to do transthoracic 3D LVEF. *A. Patel, F. Mamdoo, F. Mookadam*

Technical scanning analysis.

Session 5: Core-learning lab (**Open** – main arena)

8:45 Intra-operative Echocardiography. *J. Swanevelder, E. Turton, P. Nihoyannopoulos*

Key principles:

- Key echo hemodynamic parameters in the ventilated patient TEE. *J. Swanevelder*
 - Pitfalls and artefacts case studies.
-

Session 6: Aortic regurgitation

Chairs: *J. Bax, J. Swanevelder*

09:35 Challenges in the assessment of AR. *P. Nihoyannopoulos*

09:55 **Rapid fire:** Do you know your aortic numbers? *P. Van Der Bijl*

10:10 Case studies – AR and the dilated aorta. *A. Patel*

10:25 Case studies in aortic dissection. *M. Saric*

10:50 Intraoperative AR challenges. *J. Swanevelder*

11:05 **Tea**

Session 7: Aortic Stenosis

Chairs: *P. Nihoyannopoulos, F. Mamdoo*

11:30 Is this severe aortic stenosis? *P. Van Der Bijl*

11:50 How to practically select SAVI vs TAVI in 2023. *J. Bax*

12:10 Post TAVI complications. *M. Saric*

12:35 Case studies to make you really think. *P. Nihoyannopoulos*

13:00 **Lunch**

Session 8 – Interventional Echocardiography

Chairs: *C. Zambakides, A. Sarkin*

13:55 LA appendage closure in whom. *F. Mamdoo*

14:05 How to use imaging for LA appendage closure. *M. Saric*

14:25 PFO closure in whom. *P. Van Der Bijl*

14:40 How to accurately diagnose a PFO using Echocardiography. *F. Mamdoo*

14:55 Cases studies demonstrating PFO closure. *M. Saric*

15:05 Case studies demonstrating selection for mitral valve repair. *J. Swanevelder*

15:20 Intervention on the Tricuspid valve: The role of the Echocardiographer. *J. Bax*

15:40 **Tea**

Session 9: Challenging cases in acute cardiology

Read with the experts: *F. Mookadam, J. Bax, P. Nihoyannopoulos*

16:00 Challenging cases from around SA. *P. Nihoyannopoulos & F. Mookadam*

- Steve Biko
- Groote Schuur
- Charlotte Maxeke

17:00 Meeting Closure. *F. Mamdoo*

IMPORTANT INFORMATION

1. <u>Applicable Fees</u> – Main course (17-18 November) + Pre course (10 November)	
▪ Cardiologists, physicians (internal medicine, ER, critical care, general practitioners) and anaesthetists	R3500
▪ Fellows in training	R2500
▪ Sonographers	R1000
2. <u>TEE Fees</u>	
▪ Cardiologists, physicians (internal medicine, ER, critical care, general practitioners) and anaesthetists	R1500
▪ Fellows in training	R1000
3. <u>Banking details</u> <u>Bank:</u> Standard Bank <u>Account name:</u> Cardiovascular Research and Training <u>Account number:</u> 221274669 <u>Branch code:</u> 018505 <u>Reference:</u> Name & Surname	
4. <u>The hands-on Live TEE track</u> Please note that there are limited places available. We encourage delegates to choose the appropriate track to maximize their skills transference and development.	
5. <u>CPD</u> The meeting is usually accredited with the HPCSA and has a minimum of 20 points. The exact number is usually disclosed at the meeting.	
6. <u>Online learning platform with Livemedia (Greece)</u> Online access to the course material for the meetings will be available to registered delegates for a period of 6 months after the course through Livemedia.	
7. <u>Accommodation</u> Sunnyside Park hotel. Contact Christine Bisla for preferential rate.	
8. <u>Correspondence</u> ▪ Registration, CPD: echo.newhorizons@gmail.com ▪ Accommodation, transport and general enquiries: christinebisla@gmail.com	