



INTERNATIONAL UPDATE

## Echocardiography for Hemodynamic Monitoring 2024

Brussels, November 19-21, 2024



**Tuesday, November 19, 2024**

### BASICS

09.00	<b>Presentation of the course</b> <i>Course directors</i>
09.10	<b>Ultrasound principles and new advances in ultrasound technology</b> M. Slama (Amiens, France) - Mod: S. Orde (Sydney, Australia)
09.40	<b>Transthoracic and transesophageal echo: indications and planes</b> D. De Backer (Brussels, Belgium) - Mod: V. Labbé (Brussels, Belgium)
10.15	<b>Break</b>
10.30	<b>Evaluation of LV systolic function and cardiac output</b> P. Mayo (New York, USA) - Mod: D. De Backer (Brussels, Belgium)
11.00	<b>Evaluation of LV diastolic function</b> M. Slama (Amiens, France) - Mod: A. Herpain (Brussels, Belgium)
11.35	<b>Evaluation of RV function, pulmonary pressures, and right-sided congestion</b> S. Orde (Sydney, Australia) - Mod: G. Douflé (Toronto, Canada)
12.20	<b>Lunch</b>
13.15	<b>Division into 3 groups for Workshops (3 x 60 min)</b>
13.20	<b>1/ TTE hands-on with instructors, divided into:</b> → <b>beginner level (TTE view acquisition, RV assessment, etc.)</b> F. Annoni (Brussels, Belgium), V. Ditali (Brussels, Belgium), P. Mayo (New York, USA), S. Orde (Sydney, Australia) → <b>advanced level (PW Doppler indices, LV/RV 2D strain, etc.)</b> D. De Backer (Brussels, Belgium), A. Herpain (Brussels, Belgium)
	<b>2/ Case stations (GE-EchoPAC)</b> M. Slama (Amiens, France)
	<b>3/ TEE simulator: demonstration and discussion</b> G. Douflé (Toronto, Canada) and V. Labbé (Brussels, Belgium)
16.50	<b>Break</b>
17.15	<b>Myocardial infarction</b> V. Labbé (Brussels, Belgium) - Mod: D. De Backer (Brussels, Belgium)
17.45	<b>Free access to TTE machines &amp; TEE simulators with instructors and speakers</b>



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**Wednesday, November 20, 2024**

### INTRODUCTION TO HEMODYNAMIC MONITORING

08.30	<b>Evaluation of filling pressures</b> S. Orde (Sydney, Australia) - Mod: M. Slama (Amiens, France)
09.15	<b>[Case presentations]</b>
10.15	<b>Break</b>
10.30	<b>Echocardiographic patterns of acute cor pulmonale</b> G. Douflé (Toronto, Canada) - Mod P. Mayo (New York, USA)
11.05	<b>[Case presentations]</b>
11.35	<b>Echocardiography for the ARDS patient</b> F. Annoni (Brussels, Belgium) - Mod: V. Labbé (Brussels, Belgium)
12.10	<b>Evaluation of venous stasis</b> D. De Backer (Brussels, Belgium) – Mod: A. Herpain (Brussels, Belgium)
12.30	<b>Lunch &amp; Free access to TEE simulators</b>
13.30	<b>Prediction and evaluation of fluid responsiveness</b> P. Mayo (New York, USA) - Mod: M. Slama (Amiens, France)
14.30	<b>[Case presentations]</b>
15.30	<b>Break</b>
15.45	<b>2D strain by speckle tracking imaging</b> A. Herpain (Brussels, Belgium) - Mod: S. Orde (Sydney, Australia)
16.15	<b>Assessment of valvulopathies</b> S. Orde (Sydney, Australia) - Mod: D. De Backer (Brussels, Belgium)
17.00	<b>Cardiac tamponade</b> P. Mayo (New York, USA) - Mod: G. Douflé (Toronto, Canada)
17.30	<b>End of the day</b>



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**Thursday, November 21, 2024**

### INTEGRATED APPROACH: CLINICAL SITUATIONS

08.30	<b>Obstructive cardiomyopathy and dynamic LVOT obstruction</b> M. Slama (Amiens, France) - Mod: V. Labbé (Brussels, Belgium)
09.00	<b>How to assess a patient with shock?</b> <b>How to assess a patient with respiratory failure?</b> M. Slama (Amiens, France) - Mod: S. Orde (Sydney, Australia)
09.30	<b>[Case presentations]</b>
10.30	<b>Break</b>
10.45	<b>[Case presentations]</b>
11.15	<b>Aortic pathologies</b> S. Orde (Sydney, Australia) - Mod: A. Herpain (Brussels, Belgium)
11.35	<b>Myocardial depression in septic shock</b> D. De Backer (Brussels, Belgium) - Mod: F. Annoni (Brussels, Belgium)
12.20	<b>Lunch</b>
13.05	<b>[Case presentations]</b>
13.35	<b>Short clinical cases: quiz</b> (All the experts)
14.05	<b>Echocardiography during cardiac arrest</b> A. Herpain (Brussels, Belgium) - Mod: P. Mayo (New York, USA)
14.25	<b>Evaluation of the patient receiving:</b> - <b>ECMO (VV or VA) and LVAD</b> - G. Douflé (Toronto, Canada) - Mod: D. De Backer (Brussels, Belgium) - <b>pVAD (e.g., Impella®)</b> A. Herpain (Brussels, Belgium) - Mod: F. Annoni (Brussels, Belgium)
15.25	<b>Key messages and course conclusions</b>
15.30	<b>End of the course</b>