



*The Intensive Connection*



**ADVANCED MASTER COURSE (INTEGRATION AND SIMULATION)  
IN HAEMODYNAMICS**

**October 21-22, 2023  
Face-to-face, Milan, Italy**

**DAY 1 – October 21, 2023**

**Afternoon session**

- 14:00 Welcome and presentations *M Chew, X Monnet*
- 14:30 Clinical case with virtual reality: part 1
- 15:00 Discussion in small groups
- 15:20 Initial evaluation of haemodynamics in septic shock *I van der Horst*  
*Focus lecture*  
*Moderator: A Messina*
- 15:40 Assessment of tissue oxygenation: could we build an algorithm? *D De Backer*  
*Focus lecture*  
*Moderator: X Monnet*
- 16:00 Q&A
- 16:20 BREAK
- 16:50 Clinical case with virtual reality: part 2
- 17:20 Discussion in small groups
- 17:40 How I perform my initial ultrasound assessment *M Chew*  
*Focus lecture*  
*Moderator: A Messina*
- 18:00 END DAY 1



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**MASTER COURSE IN HAEMODYNAMICS**  
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**DAY 2 – October 22nd, 2023**

**Morning session**

- 09:00 Clinical case with virtual reality: part 3
- 09:30 Discussion in small groups
- 09:50 Should one monitor cardiac output in patients with shock? *X Monnet*  
*Focus lecture*  
*Moderator: M Chew*
- 10:10 Advanced haemodynamic monitoring: why? Which? How? *D De Backer*  
*Focus lecture*  
*Moderator: A Messina*
- 10:30 Q&A
- 10:50 BREAK
- 11:20 Clinical case with virtual reality: part 4
- 11:50 Discussion in small groups
- 12:10 The issue of fluid overload *M Ostermann*  
*Focus lecture*  
*Moderator: X Monnet*
- 12:30 How to avoid fluid overload at the bedside *A Messina*  
*Focus lecture*  
*Moderator: M Chew*
- 12:50 Q&A
- 13:00 LUNCH

**Afternoon session**

- 14:00 Clinical case with virtual reality: part 5
- 14:30 Discussion in small groups



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- 14:50 Heart-lung interactions during ARDS: how to assess it with echo? *M Chew*  
*Focus lecture*  
*Moderator: A Messina*
- 15:10 Heart-lung interactions during ARDS: it is important? How to deal with it in practice? *X Monnet*  
*Focus lecture*  
*Moderator: M Chew*
- 15:30 Q&A
- 15:50 BREAK
- 16:20 Clinical case with virtual reality: part 6
- 16:50 Discussion in small groups
- 17:10 How to deal with refractory septic shock? *A Messina*  
*Focus lecture*  
*Moderator: X Monnet*
- 17:30 Competition quiz
- 18:00 END DAY 2

PRELIMINARY