

Minutes of the CD section meeting

LIVES Barcelona, 7 October 20224

1. Michelle Chew welcomed all members of the CD section. Antonio Messina was introduced as the Chair-elect (term starting Oct 2025).
2. **Report from the section**
 - a. **Masterclasses**

The section has offered several masterclasses this year. This included 3 haemodynamic masterclasses, 2 masterclasses on ECMO/ECLS, and one in the EDEC program. All classes have been very well attended and received excellent feedback. In particular the Advanced Haemodynamic course had a record number of participants (n=109, Milan 2023). The Advanced course of 2024 had 87 participants from 32 countries. Simulations were highly rated and the courses included new pedagogical tool using a Virtual Reality Experience and 3 Escape Rooms. The CD section gratefully acknowledges the contribution of Jan Benes/Marco Marggiorini, Christopher Lai/Jon Aron, Xavier Monnet/Michelle Chew, Daniel De Backer/Leen Vercaemst, Dieter Dauwe/Jan Belohlavek, Philippe Vignon for their work in directing and organizing courses. Special mention is also given to the pioneers of this year's escape room format Mathieu Jozwiak/Alex Nica/Ana Maria Loan/Shawn Lee/Iwan van der Horst/ Olfa Hamzaoui/ Nello De Vita/ Victoria Bennett and Vanina Edul. Michelle Chew acknowledged the hard work, enthusiasm and skills of our teachers.
 - b. **Haemodynamic Pathway**

This year again, 5 hospitals across hosted 5 junior members each, giving them an opportunity to hone in on haemodynamic skills. Oliver Hunsicker reported briefly on a successful program at Charité Hospital in Berlin.
 - c. **Webinars**

The recent webinar 'What's new in vasopressors' (Jozwiak/Lozsan) was a very well received with a record number of participants, and still being watched on line.
 - d. **Annual Congress**

The CD section continues to have a strong presence at LIVES. We have increased the number of joint sessions with Perioperative
 - e. **Consensus statements**

Check consistency of data reporting in studies (CODEFIRE) was published by Antonio Messina and co-authors this year.
 - f. **Surveys**

The PRESS survey on the use of Vasopressin conducted Mathieu Jozwiak received over 2500 responders. Results were presented in a poster session during LIVES 2024.
3. **Consensus conference on Shock and Haemodynamic Monitoring**

Xavier Monnet reported on the progress of this consensus conference that is at its final stages. Planned submission within the next weeks.
4. **Upcoming consensus statements**
 - a. Cardiogenic shock. Currently being planned. Bruno Levy will chair.
 - b. Septic cardiomyopathy. Proposal to be submitted to ESCIM for approval, chaired by M Singer/M Chew

- c. Haemodynamic monitoring in TBI. Currently on hold (C Robba/A Messina/M Chew)
- d. SCCM-ESICM Refractory Shock. Marc Leone reported that submission of a first manuscript outlining the framework for the consensus. Further work regarding definitions incl. a full Delphi study is ongoing.
- e. Consensus on tissue perfusion planned by Can Ince.

5. Report from EDEC

Martin Balik reported changes in the delivery of the EDEC curriculum including online examinations and an electronic log book by December. Updated guidelines will include the need for US skills beyond echocardiography. Middle- and low-income countries are actively collaborating, including a planned cooperation in India. Numbers: 135 attendees at the course, 48 examinees for the theoretical examination, fewer for the practical examination. EDEC pathway - 5 international fellows to simulation and bedside teaching. Next cohort in February 2025.

6. Upcoming studies

a. FENICE II (M Cecconi/A Messina)

International, observational study in 10000 patients over 50-70 ICUs. Recruitment is open (difficulties in ICU enrolment). E-CRF in RedCap is online. Start-up is planned for January 2025 to June 2025. National coordinators are still needed (list of places available on ESICM website). Patient enrollment during 2 weeks within a 6 month period.

b. SICU-2 (M Chew)

Multicentre, observational study in 8 hospitals to evaluate detailed echocardiography + haemodynamic variables and biomarkers in septic shock. Call for centres closed, recruitment close to completion.

c. Haemodynamic monitoring for middle income countries (F Michard)

Affordability of hemodynamic monitoring for low- and middle-income countries contributes to inequities in critical care delivery. Work is underway to address this disparity in middle income countries. ESICM is collaborating with large middle-income countries (e.g., EuroAsia, EuroAfrica) for education. Lifebox pulse oximeter was presented as an example of affordable technology and several affordable ultrasound devices are being investigated. Classic monitoring techniques are not available in middle income countries and some companies are offering commercial solutions.

d. HD monitoring and fluid responsiveness in shock patients (X Monnet/ C Lai)

Planned study on HD monitoring enrolling more than 1000 participants, to be preceded by a systematic review and Delphi consensus on definitions (fluid accumulation, fluid overload, fluid tolerance). Will be submitted to ESICM RC for approval.

e. ANDROMEDA-PEGASUS (Glenn Hernandez)

Multicentre, international, cross-sectional study to evaluate the ability of pulse pressure to predict stroke volume in critically ill patients. Endorsed by ESICM. Currently submitted for ethical committee approval. The importance of including LMICs was stressed. eCRF is being finalized and call for centres is open.

- f. Fluid champions (Manu Malbrain)** Unfortunately, Manu had to chair a poster session but reports on the concept of 'fluid champions' to increase awareness and education of fluid management in the ICU.

7. AOB

- a. Green dimension**

The Society moved from 8 F2F courses in 2019 to 10 online courses in 2023, saving 323 MT of CO2 moving toward the goal of a sustainable and green Society.

- b. Diversity and inclusiveness**

Michelle Chew was pleased to report the continuing efforts of the CD section to reach DEI goals. This includes welcoming LMIC members, medical students and retired colleagues. The presence of record numbers of CD section members attending the current meeting was gladly noted.

- c.** There was no internet connection available and the planned zoom connection failed for members unable to attend the meeting in person. The chair apologized for this.

Meeting adjourned at 1330.