Welcome to the
ESICM Data Science Section Meeting
at ESICM LIVES 2024 Barcelona

Agenda

- Welcome

- New Chair-elect - Massimiliano Greco (Milan, Italy)

- Data Science Section Roadmap

- False positive alarm reduction - Annika Bald (Berlin, Germany)

- Topics for LIVES 2025

- Any other business

New Chair Elect

Massimiliano Greco

Hunimed, Milan, Italy

Data Science Section Roadmap

Successes

- The Data Science section has grown
  - >100 voting members, about 400 total members
- Data science courses flourish
  - Pre-congress face to face course
  - Digital ESICM Academy Critical Care Education course
- Data sharing is gaining momentum in Europe
  - AmsterdamUMCdb, HiRID, SICdb
- Consortium for federated data sharing
  - Applied for EU funding

Successes

- Reviews on applications of machine learning are out
  - Machine learning for the prediction of sepsis
  - Artificial Intelligence in intensive care medicine: ready for lift-off?
  - Reinforcement learning: outcomes and level-of-readiness
- Datathons are ever popular
  - Online format over the course of one month
  - Many new professional connections
  - 4+ peer reviewed publications, many abstracts

Thank you!

- Research Committee
  - **Ari Ercole**, Cambridge, UK - until October 2025

- Social Media Committee
  - **Annika Bald**, Berlin, Germany - until October 2026

- E-learning Committee
  - **Jose Gustavo Martins**, Porto, Portugal - until October 2025

- Clinical Training Committee
  - **Harm Jan de Grooth**, Utrecht, The Netherlands - until October 2025

5 Goals
9 Deliverables

Goals

- Education

- Research

- Data sharing

- Electronic Health Record Quality

- Collaboration

Goals

Provide **education** for clinicians interested in developing or appraising
new technology.

Goals

Promote **research** into clinical applications of data-driven healthcare,
encouraging translation of novel computing and artificial intelligence techniques.

Goals

Drive **data sharing** across Europe in a legal, ethical and publicly-acceptable way.

Goals

Promote **standard setting and benchmarking** for Electronic Medical Records and other technologies to make sure technology is aligned to the needs of patients and clinicians.

Goals

Create a **collaborative framework**
facilitating the collaboration of
ICU professionals, data scientists, engineers,
legal and ethical experts,
as well as engaging industry partners
for patient benefit.

Deliverables

- **Establish the Data Science Section**
- **Support Responsible ICU data Sharing**
- **Continue the Success of the ESICM Datathon**
- **Systematic Reviews**
- **Pre-symposium course**
- Contact person for Data Science in every European ICU
- Map EHR implementation across Europe
- Guidelines and best practices
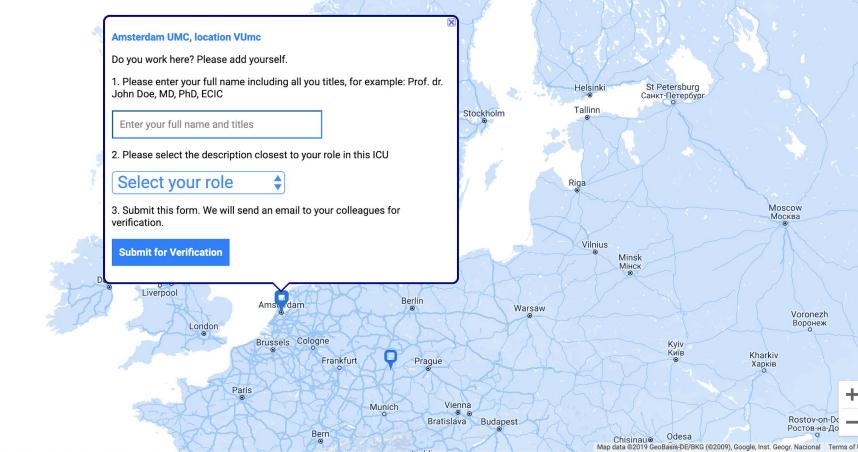- Establish Data Science Award

Focus for 2025 and beyond

- Monthly online data science meetings
- ESICM Innovation meeting + datathon final
- In person and online data science courses
- Have at least one contact person for each European ICU
- Insight into Electronic Health Records use across Europe
- Minimum Standard Setting for Electronic Health Records
- Guidance for applied AI in intensive care medicine
- Support data science funding applications
- Promote diversity and green ICU
- Create ESICM membership for data scientists
- Establish ESICM Data Science award

Amsterdam UMC, location VUmc

Do you work here? Please add yourself.

1. Please enter your full name including all you titles, for example: Prof. dr. John Doe, MD, PhD, ECIC

Enter your full name and titles

2. Please select the description closest to your role in this ICU

Select your role

3. Submit this form. We will send an email to your colleagues for verification.

Submit for Verification

Opportunities

- Contact person

- Monthly meetings

- Map ICUs and EHRs

- EHR standard setting

Interested?
p.elbers@amsterdamumc.nl

False positive alarm reductions

Annika Bald, Berlin, Germany

Topics for LIVES 2025

Munich, Germany
October 25-29, 2025

Any other business

Opportunities

- **Ideas for LIVES 2025**
- **Contact person**
- **Monthly meetings**
- **Map ICUs and EHRs**
- **EHR standard setting**

Interested?
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