



Research Learning Pathway – Level 2
“The Nuts and Bolts of Critical Care Research Design”
Course programme

** The event is scheduled according to Central European Time*

Day 1 – April 29, 2025

Morning session

- 09:00 **Introduction and ice-breaker** *A. Conway Morris, N. Nielsen, I. Martin-Loeches*
- 09:25 **Keynote talk: setting the scene, why bad design kills a study before it even starts**
M. Singer
Moderator: L. Derde
- 10:55 **The 3W's Break (Walk, Window, Water)**
- 10:00 **Mentorship in Research (roundtable)** *L. Derde, J. Laffey, I. Lakbar, C. Robba*
Moderators: A. Conway Morris, N. Nielsen
- 10:45 **BREAK**
- 11:00 **Formulating Research Questions** *HJ De Grooth*
Introduction followed by small group discussion
- 11:15 **Break-out room session** *Floating faculty: A Conway Morris/N Nielsen*
Room 1: Do catecholamines cause immunosuppression? (translational, observational, fundamental sci)
I. Martin-Loeches & P. Pova
Room 2: How do we prevent burnout in ICU staff? (observational, clinical trial, qualitative)
Kat Kholer & I. Lakbar
Room 3: What blood pressure targets result in the best outcomes for sub-arachnoid hemorrhage? (fundamental, observational, RCT, data science)
A. Mekontso-Dessap & C. Robba
- 12:15 **Feedback of ideas**
- 12:30 **LUNCH BREAK**

Afternoon session

- 13:15 **Data Analysis Plan Writing** *D. Poole*
Moderator: N. Nielsen
- 14:00 **Writing for success: Grants** *A. Conway-Morris, J. Latour, N Juffermans, M Singer*
Moderators: C. Robba
- 14:45 **BREAK**



15:00 **How to Impress an Editor and Not Annoy Reviewer #2: picking a target**

S Jaber, N. Juffermans, P. Pova

Moderator:

S. Einav

15:45 The 3W's Break (Walk, Window, Water)

15:50 **Research in resource-limited settings settings**

G Hernandez L. Azevedo, A. Mekontso-Dessap

Moderator:

P. Pova

16:30 **Recap of Day 1 and "Food for Thought": Overnight task to consider**

A. Conway Morris, N. Nielsen

17:00 **END DAY 1**

Preliminary



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Day 2 – April 30, 2025

Morning session

- 09:00 **Recap of Day 1 & Introduction of Day 2** *A. Conway Morris, N. Nielsen*
- 09:15 **Food for Thought Challenge**
Facilitators: *A. Conway Morris, N. Nielsen*
- 09:40 **Systematic review and meta-analyses** *HJ De Grooth, S. Einav, I. Lakbar, D Poole*
- 10:20 BREAK
- 10:35 **Fundamental & translational science** (accessibility – how to start, how to get involved)
Moderator: *A. Conway Morris, N. Juffermans, M. Singer*
HJ. De Grooth
- 11:15 The 3W's Break (Walk, Window, Water)
- 11:20 **Clinical Trials (small, large and platform)** *C McKenzie, G Hernandez, N. Nielsen, M*
Chew, L Derde
- 12:20 END MORNING SESSION

LUNCH BREAK

Afternoon session

- 13:30 **“Pitch me your study”** *N. Nielsen, I. Martin-Loeches*
- 14:30 **Data science, Machine learning & Big Data (sets)** *K Kohler, K Gradel*
(accessibility – how to start, how to get involved)
Moderator: *A Conway Morris*
- 15:10 BREAK
- 15:25 **Qualitative Research** *J. Latour, V. Metaxa, M. Van Mol*
- 16:00 **Writing for Success: Papers** *M. Chew, J. Latour*
Moderator: *C. McKenzie*
- 17:00 The 3W's Break (Walk, Window, Water)
- 17:05 **Bringing it all together** *All faculty*
Facilitators: *A. Conway Morris, N. Nielsen*



17:30 **Level 3 Introduction**

17:40 **END DAY 2**

Preliminary