

Minutes of the NIC section meeting, Barcelona, October 7th 2024

- Chiara Robba (Chair) presents to the section the program of the ESICM meeting #LIVES2024, in Barcelona, with description of the sessions dedicated to the NIC:
 - PRE-CONGRESS COURSE HEAD-TO-TOE ULTRASOUND IN ICU
 - THE ART OF TRAUMA WORKSHOP WITH TEM SECTION
 - NIC SESSIONS : 2 DEBATES, 2 THEMATIC SESSIONS
 - JOINT SESSIONS : 3 DEBATES, 3 THEMATIC SESSIONS
- CR highlights the fact that the number of sessions at the Congress depends on the number of voting members of each section, for a total of 4 sessions dedicated to NIC. In addition to those sessions, the congress committee promotes collaborative or 'joined' sessions with other sections, and NIC was quite successful in co-organizing several of these sessions (with TEM, FREM, CD, BS, ...).
- Chiara Robba (Chair) presents Romain Sonnevile (Chair-elect) as new Chair of NIC SECTION, starting from October 2024.
- Romain Sonnevile reviews recent activities from 2024, including:
 - A webinar on cerebral oxygenation in neurocritical care (Lori Shutter, Jean-François Payen, and Raimund Helbok)
 - A Masimo-sponsored pathway on perioperative safety
 - 2 podcasts
 - Laura Galarza – Rita Bertuetti, brain ultrasound
 - Laura Galarza - Virginia Newcombe, Neuroprognostication
 - Collaborations with other sections : SOFA 2.0, Very old patients
- The NIC representatives of different committees update on recent activities:
 - Carmen Lopez Soto – Clinical Training Committee : presentation of the neurointensive care pathway
 - Virginia Newcombe – Research Committee : presentation of research awards 2024
 - Carolina Iaquaniello – Communication strategy : experience of NIC members, website, feedback regarding NIC section activities.
 - Sarah Benghanem (Romain Sonnevile) – E-learning Committee : neuro-ACE courses to be updated.

- Romain Sonnevile presents the ongoing research :

Surveys

Hemodynamic management of brain injured patients (with hemodynamic section) published on ICMx

Artificial Intelligence for ICP prediction (Leuven group)

Current Acute Brain Injury Monitoring Practices within Intensive Care, Dr Richard Cashmore, Cambridge (ongoing)

TBI management in pediatric population (ongoing)

Consensus and clinical recommendations

Temperature management in TBI (Dr Lavinio) : published

Hemodynamic management in brain injured patients (Dr Messina) : ongoing

Consensus on the definition of DCI (Taccone) : ongoing

Weaning from mechanical ventilation (Arun Joseph) : ongoing

Retrospective studies

- Multicenter retrospective data collection, exploring the treatment used in case of refractory vasospasm. Status: analysis
- Multicenter retrospective data collection, exploring the tier three therapies used in case of refractory intracranial hypertension. Status: manuscript preparation

Ongoing prospective observational studies

- Noninvasive ICP in TBI patients in LMIC (Rubiano – Robba – Taccone)
- SANDMAN: Sedation and analgesia in neurocritically ill patients. Prof S Mehta and Dr Lara Prisco: presented #LIVES2023
- Ventibrain: mechanical ventilation practice in acute brain injured patients. Prof Chiara Robba: manuscript preparation
- Compose study: Observational study to establish the natural history of recovery from coma. Prof Helbok / Prof Citerio

Ongoing prospective randomized clinical trials (RCTs)

- Train: randomized controlled trial on Hb targets. Prof Fabio Taccone. Presented LIVES2024 with JAMA simultaneous publication
- BIKe: randomized controlled trial on safety and efficacy of ketamine in brain injured patients. Prof Geert Meyfroidt. Recruitment ongoing.
- RCT LIMIT-TBI on fluid management for TBI (Robba, Taccone, Mathieu Van der Jagt). Ethical approval obtained.