



The Intensive Connection

Minutes of the NIC section meeting, Lives Milano, October 2023.

- Chiara Robba (Chair) presents to the section the program of Lives 2023, with description of the sessions dedicated to the NIC. She highlights the fact that the number of sessions at the Congress depends on the number of voting members of each section. 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 presents other activities of the section including the recent "Mastering the brain in critical conditions" a 2-day online webinar early September 2023
- Chiara Robba presents the NIC representatives of the research, social media, educational, clinical and social network committees, who provide specific updates on their activities.
In particular:
 - A better description of the section and its research projects has been implemented, with relevant articles review.
 - New courses have been implemented involving the section, in particular the Genius course, an "head to toes " course on Ultrasonography
 - Further ACE courses have been completed and now have been proposed. If you are interested in participating in this, please contact carmen.lopezsoto@nhs.net
- Romain Sonnevile (Chair Elect) presents the ongoing research within the NIC section

Surveys

Recently published surveys:

- Ventilo survey, on mechanical ventilation in brain injured patients
- Strike, on management of stroke patients admitted to the ICU
- Hemobrain, on hemodynamic management of brain injured patients

Ongoing surveys:

- Sedation in neurocritical care

New proposals:

- Clinical response to intracranial pressure predictions at the bedside, from GM.

Consensus and clinical recommendations

Recently published :

- Mechanical ventilation in brain injured patients

Ongoing:

- Temperature management in neurocritical care patients
- Hemodynamic management of brain injured patients
- Application of non-invasive ICP methods in low-income countries



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Retrospective studies

- Multicenter retrospective data collection, exploring the treatment used in case of refractory vasospasm. Status: center recruitment closed
- Multicenter retrospective data collection, exploring the tier three therapies used in case of refractory intracranial hypertension. Status: center recruitment closed

Ongoing prospective observational studies

- ENIO study: published on ICM. Ongoing sub-studies. Prof Cinotti
- SYNAPSE- ICU study: published in 2021, ongoing sub-studies. Prof Citerio
- SANDMAN: Sedation and analgesia in neurocritically ill patients. Prof S Mehta and Dr Lara Prisco.
- Eureka study: epidemiology and outcomes of patients admitted to the ICU with all-cause meningo-encephalitis. Prof Romain Sonnevile. Manuscript published on ICM
- Ventibrain: mechanical ventilation practice in acute brain injured patients. Prof Chiara Robba. Recruitment closed

Ongoing prospective randomized clinical trials (RCTs)

- Train: randomized controlled trial on Hb targets. Prof Fabio Taccone. Recruitment closed
- BIKe: randomized controlled trial on safety and efficacy of ketamine in brain injured patients. Prof Geert Meyfroidt. Recruitment ongoing.

New proposals:

- Compose study: Observational study to establish the natural history of recovery from coma. Prof Helbok
- ECMO-BRAIN : Observational study on neuromonitoring during ECMO. Prof Sonnevile
- LIMIT-TBI study. Randomized controlled trial on fluid balance in acute brain injured patients. Prof Mathieu Van der Jagt. Feasibility study submitted to the Ethical committee approval

CR and RS call for volunteers to participate in the different activities of the section, and propose new speakers and research projects.