

Metabolic, endocrine and nutritional (MEN) aspects are an integral part of any ICU pathology. When metabolic care is well conducted, other therapies benefit. Understanding of the different organs involved is required to conduct integrative therapy of failures resulting from diseases requiring critical care. The MEN section aims at improving these views. The section has 5 special interest groups: gastro-intestinal function (lead A. Reintam Blaser), Education (lead J. Starkopf), Liver-Pancreas (lead V. Fuhrman -Deputy), Micronutrients (lead M. Casaer), Muscle (lead S. Weber-Carstens). Only one section meeting was held during the Berlin Lives 2019 congress. Due to the COVID pandemic, communication was by mails and webinars.

Lives 2019 Berlin: The program concept was completely revisited, going transversal and interdisciplinary, with fewer "pure-MEN" sessions, but in collaboration principally with AKI, NAPH, and ARF sections. The 2 hands on sessions on indirect calorimetry and ultrasound were well attended. High quality abstracts were presented in 3 poster sessions, and 1 oral. Feed-back from our members about this new inter-disciplinary positioning was positive: it enabled attending more non-pure MEN sessions.

Master class: the MEN collaborated with the AKI section

- **Educational activities**

Academy courses: the Education team (lead JS) elaborated 5 e-Modules dedicated to nutrition which have been well attended. Abdomen, Acute liver failure, Pancreatitis modules were completed.

Webinars: The MEN section participated in the ESICM-China congress 22nd June, in a education session supported by Nestlé 20th May, and generated a short educational session on nutritional & Metabolic specificities of COVID patients on 20th April.

Virtual Congress: The MEN section has elaborated a series of web-presentations

- **Research activity**

The academic activity of the section has been "intensive".

The **VITATRACE - micronutrient practice survey** has been published in Clin Nutr 2020. Coordinator M.Casaer.

The **iSOFA study** was completed, and was discussed during the meetings in Berlin 2019. 540 patients from 11 sites worldwide were included. Two manuscripts are in the final phase of preparation and will be submitted within the next few weeks.

The **Gastrointestinal dysfunction systematic review and Research agenda** was completed, and published in Critical Care 2020: the 25 members of the GI section were coordinated by A Reintam Blaser.

After publication of previous web survey (VITATRACE), the MEN section could proceed with Hypophosphatemia project: Point-prevalence survey and the systematic review.

- The **Systematic review on hypophosphatemia:** was endorsed by and received support from the ESICM-Research group (project ranked 2nd out of 16 submissions). Coordination by A.Reintam Blaser. Clinical Nutrition has accepted the manuscript.
- The **One day point prevalence survey of hypophosphatemia** was conducted in March 2020, after multiple Ethical Committee submissions, just before the pandemic peaked. Altogether, 60 ICUs from 23 countries participated: 687/909 (75.6%) patients had serum/plasma phosphate determined, revealing a hypoP in 15%. This is the first point prevalence survey addressing this issue. The study is under publication. Coordination by MM Berger. The major difficulties getting Ethics approval under the GDPR rules must be stressed. The manuscript is submitted to Clin Nutr.

The **VITDalize trial** is still recruiting (target 1200 for interim analysis, 2400 for full study). Coordination K.Amrein. Completion date is projected end 2022.

- **Future meetings:** a virtual meeting is planned during our virtual 2020 congress.