

Virtual Meeting

DECEMBER 23, 2022 – 11:00-12:00

Agenda

1) Call to action

- a. WhatsApp and other solutions? Everyone who wants to join WhatsApp could mail their cell phone number to Anne Françoise at afrousseau@chuliege.be. Today only 10 FREM members sent their GSM numbers to AF.
- b. All workgroup members invited? Are you interested in one of these groups and you didn't receive a mail? Please contact the project leaders.
- c. Please feel to join the general meetings. In order not to scare any colleagues from joining FREM, you can join our meetings for years and only listen or network, that is perfect! When you join a working group, you are expected to take an active role and contribute to the group.

2) Report from the different working groups

The “Working groups” will be called “project groups” to avoid any confusion with the working groups that presented some problems in other sections in the past.

a. **Rehabilitation (Zudin Puthuchery is excused)**

Update at next meeting

b. **Online Education (Sjoerd Van Bree)**

-) The update of the Module Acute Live Failure has been taken up by our NEXT committee (thanks to Mara Martinez).
-) Pancreatitis: update has been kindly taken over by Angelique de Man and is currently in process.
-) Nutrition split into 5 parts and update of contents including questions and MCQs. And this year it has been updated by Michael Casaer.
-) Abdomen in Acute Critical Care: update completed, thanks to Jean Charles Preiser and transferred online.

Please contact Sjoerd if you see important results from recent well-powered high-quality RCTs that need to be included in the online material

c. **Micronutrients (Angelique de Man)**

- First project: to draft micronutrient management in ICU review, summarizing recommended practice based on hard evidence available today and research priorities per potential clinical relevance. *Roles have been attributed now to different collaborators*

- Other objectives: investigating micronutrient quantification of other samples than serum, important work has been conducted in this context by Xavier Forceville who will be happy to share the resulting publications. xforceville@invivo.edu

d. GI function (Annika Reintam Blaser) *See slides provided by Annika*

So far, based on the survey, 18 sites have confirmed their interest in studies of the GI function project group. This survey to obtain an overview of potential sites participating in studies is still open: <https://www.tfaforms.com/5032753>

- 1. RCT on the prophylactic use of laxatives. The study protocol is in development, PI = Benjamin Sztrympf. No funding so far, suggestions are warranted.
- 2. GIDS validation and Phosphate – a joint study. PIs = ARB and AvZ. ARB has drafted the GIDS validation part of the study protocol. AvZ is now working on the study protocol to define the exact research question and sample size necessary for the phosphate part. Thereafter the study protocol will be further refined in a small group. Anyone interested to work on the study protocol, please write an e-mail to ARB. eCRF can be developed at the University of Tartu without additional funding.

Annika mentioned requesting funding from ESICM for research nurses in participating sites of the GIDS and Phosphate study, we obtained more information from Gunnar and Stefan, and the only possible funding is via a research award application

- 3. A core set of daily monitoring of GI function. PI = Kaspar Bachmann. ARB presented a preliminary flow chart of this consensus process, the protocol draft will be sent for refining in the small group (KB, ARB, ZP, JG, Tom Davies = PI of the CONCISE) in January 2023.

3) Report from FREM representatives Sjoerd (see higher), Anne Françoise & Danni

Anne Françoise asks for updates on new publications so that she can share them on WhatsApp and social media

Danni is excused

4) Gunnar feedback from the research committee (Gunnar continues until Oct 2023 TX!!)

No new info

5) General thoughts

- a. Congratulations to Arthur; the FREM chair-elect!** arhvanzanten@gmail.com).
Next elections chair Oct 2024! Don't forget
- b. Arthur will not be "alone" from 2023-2024**

- c. **A new representative for the research committee will be required in October 2023**

6) What happened and will happen in 2022

ESICM has been generous for our section in 2022 and we had fantastic support from the different committees (NEXT, NAHP, Congress, Education, ...) and from the ESICM office collaborators! All details can be found on the ESICM website

*We organized the novel **Nutrition Pathway** with the NEXT and NAHP which included a promotional webinar, 2 intensive and interactive days of online education with videos and clinical discussions, 20 fellows selected based on their excellent post-training MCQ results who went to La Charité, Karolinska and KU Leuven, more than 20 participants who joined a research award competition, two received an award during the congress in Paris. **Fresenius decided to renew the funding, same format, some new faculty progressive, no more awards***

Webinar 22-9 on Micronutrients with excellent contribution by Angélique DM and William Manzanaras,

A **nutrition Podcast** for the NEXT in October with one of the Nutrition fellows Janja Tarčuković. LIVES 2022 in Paris included one thematic session on new data in FREM and a round table going beyond primary outcomes and joined sessions with the Neuro, Ethics and Sepsis sections, high-quality VOD with live moderation, ESICM TV interviews covering Glutamine in Burns with Christian Stoppe.

The Society invited Pierre Singer, Danni Bear, Annika Reintam Blaser and myself to organize a Nutrition Workshop in Cairo, we will keep you updated.

Workshop 2024 Morocco

LIVES 2023 Milano (see proposals in appendix A): A lively interaction with many suggestions took place, see the updated proposal attached. Michael understood that he is allowed to ask FREM members for suggestions regarding topics and faculty, yet sharing his final proposal as presented at the congress committee is problematic as it reduces the liberty for the congress committee to further amend our proposal

7) Varia

Michael Hiesmayr kindly shared recent unpublished NutritionDay data in Paris

That was very enriching, some more questions to discuss (separate meeting)

More of this is very welcome at upcoming face-to-face meetings

APPENDIX A

A. FREM thematic session “new evidence in nutrition and metabolism”

Heyland Protein RCT

TGC fast Gunst

Mobilization trials??

Precise trial very high protein Belgium Netherlands Marcel van der Poll

Latest data from mesenteric ischemia/GI core outcome set? ARB

Please let me know if you know of other RCTs concluding.

B. FREM Round Table “feeding, mobilization and functional outcome”

Stefan Schaller – Heyland (Nexus)- Pierre Singer - Reignier – Zudin?...

C. Joint session proposals 2023

Please mail me if you think about good faculty that you have witnessed some of the proposed talks hereunder. I will see how much input is desired at the congress committee.

1) Round table: Ethics Section and N&AHP committee: “Patient in control, nutritional freedom in the track towards recovery? Are there any limits?”

Lack of self-control might contribute to the burden of prolonged critical illness.

Giving some of it back might be valuable to increase self-esteem and optimism.

However, quality and control are also crucial for the caregiving team

- Home-cooked feeding
- Feeding when it suits the patient better
- Access to guilty pleasures
- Do we ask enough about thirst and hunger?
- Feeding preferences, what does the patient like during recovery? Arthur VZ or young PhD
- Nurses, doctors and AHP also need control

2) Infection section plus TEM:

“Emerging threats in the ICU”

1. XDR-TB and other ‘impossible to treat infections
2. Nerve agent and OP poisoning
3. Diabetes in the ICU, update on management and how new therapies may interact with what we do
4. Viral haemorrhagic fevers (given recent cases of Lassa and CCHF in the UK, bad Dengue season in India and Sudan strain Ebola outbreak in Uganda – have a great Ugandan speaker with recent Ebola experience who could talk on this).

3) Infection section plus TEM:

Protracted critical illness after burn injury and other vast skin and soft tissue infections (such as necrotizing fasciitis)

We considered covering the following:

- Invasive fungal wound infections
- Iodine intoxications due to povidone-iodine absorption
- Albumin in burn resuscitation and thereafter
- We could include the NEJM publication on glutamine after Burns Heyland 2022

We also suggested:

- “Vitamin and trace element deficiencies in vast injuries”
- “Endocrinology interventions in the Burn Unit, still to be recommended? A critical review of the growth hormone, beta blocker, adrenal blocker and other interventions in patients with burns.”
- “Carnitine deficiency in vast burn injury +/- renal replacement therapy”

4) Perioperative and Anaesthesia: “Perioperative endocrine and metabolic disasters”

- Pre-habilitation, (glucose or enteral preop nutrition as in ERAS) Patients experience
- Perioperative adrenal substitution therapy in the 21st century
- Perioperative glucose targets in Diabetes patients, should it be stricter or more liberal?
- Thyroid and parathyroid insufficiency, adequate monitoring and treatment?
- Electrolytes abnormalities and best choice of resuscitation fluids
- Vitamin deficiencies in peri-operative setting, any real risks?
- Michael Hiesmayer - Periop Nutrition °Nutrition-Day

5) Cardiovascular Dynamics: “Atypical causes of shock” to discuss might be:

- Sheehan’s syndrome
- Thyrotoxicosis Storm
- Thiamine deficiency
- Addison crisis
- Streptococcal sepsis-induced low early low output septic shock
- Feochromocytoma-induced shock
- How to feed your shock/ECMO patient? (Charite - Stefan Schaller)
- Vitamin C deficiency and pulmonary hypertension (ongoing project Angélique DM)

6) Joint session respiratory – FREM- NAHP (physio)

The prolonged critically ill patient:

- Nutritional issues post-acute
- Reversing catabolism
- Weaning strategies
- Mobilization

7) Suggestion JG: Organ Donation (with Neuro section and perioperative and anaesthesia)

- Infaust neuroprognosis
- Metabolic optimization of the donor
- NRP protocols, hemodynamic management
- Micronutrients in ischemia-reperfusion
- Liver Sarcopenia/Frailty Waiting List pre- and post-LTx

Suggestions Ricardo Rosenfeld

1. Congress:

- Donor Transplant Preservation:
 - o a) Regulatory Aspects (Governmental)
 - o b) Special Organs x Special Needs?
- Cancer:
 - o a) Chemo/Radio Toxicity
 - o b) Febrile Neutropenia
 - o c) Is Worthy Microbiome Manipulation (Evidence)?
- Microbiome:
 - o a) Where we are?
 - o b) Faecal Transplantation in non-Clostridioidis diarrhoea
 - o c) How to Feed the Good Bugs?

2. About "Feeding Patient with Preferences," a name I can suggest is Cristina Duch Canal, a member of SENPE (Parenteral Enteral Spanish Society); phone contact: +34 934 143 555. She works in Barcelona in food development, for Crohn's disease and cancer patients. She is a good speaker and has food solutions for special situations.

8) Suggestion ARB: Session on "Understanding (Perioperative, if with POIC section) Fluids and Electrolytes

- Fluid responsiveness vs fluid tolerance
- Fluids in emergency abdominal surgery (fluid dynamics, intra-abdominal hypertension, venous congestion, bowel oedema)
- Electrolyte interactions and safe substitution
- Electrolyte substitution in a patient with metabolic acidosis
- Non-nutritional mechanisms of the refeeding syndrome (steroids, insulin, correction of acidosis)

Kaspar Bachmann finalized a retrospective, single-centre study in Lucerne >2000 patients. Abstract with substitution practices and overcorrection of K and Ph submitted to ISICEM 2023. The manuscript with novel data on interactions of different electrolytes is now in 2nd draft stage, planned to be submitted in Spring 2023. Arthur has seen the data.