



### Description of the initiative

#### • Background / context : paediatric Intensive Care (PICU) setting

Malnutrition prevalence and incidence rates are high (15-25% and 25% respectively) in critically ill children. Complying to an overall nutritional strategy to deliver optimal nutrition is associated with decreased morbidity and mortality

#### • Rationale for the initiative

PICU teams face major difficulties in their daily practice to reach specific nutrition goals  
PICU health care team declare insufficient knowledge about nutrition in various surveys

#### • Objectives and scope

Promotion of Nutrition good practices dedicated to the critically ill child : 1. PICU nutrition teaching program implementation 2. PICU nutrition good practice dissemination 3. PICU nutrition research project elaboration

### Planned activities & deliverables

#### • Outline the steps to be taken

NutriSIP was created in 2013, with the participation of nurses, dieticians and clinicians from French speaking PICUs among Europe. NutriSIP has already successfully implemented various projects :

1. « NutriSIP day » : one-day teaching course, once a year (2015, 2016)
2. « Nutri-Reaped survey » : international survey on nutrition practices among 44 French-speaking PICUs
3. « Nutri-Reaped study » : PICU admission nutritional status assessment among 40 PICUs
4. Lectures and oral communications in various congresses and meetings (SRLF 2014, JFN 2013-17, ESPNIC 2015-17)
5. Writing of PICU nutrition chapters in the French nutrition textbook and the paediatric nutrition textbook 2016-17
6. Gastrostomy care leaflet elaboration and dissemination ; improvement of oral nutrition as development care and post traumatic stress prevention strategies
7. Ongoing research about feeding tolerance, optimal nutrition after cardiac surgery, and muscle wasting
8. Partnership with other French-speaking and international scientific societies (GFRUP, SFNEP, ESPEN, ESPNIC)

#### • What achievements are possible in the next 12 and 24 months?

- Creation of the NutriSIP website to disseminate NutriSIP programs and projects
- Next editions of the "NutriSIP day" in Paris, October 2017 and 2018
- Collaboration in local initiatives to improve PICU nutrition care (Marseille 2017, others to be scheduled)
- Extension of NutriSIP networking to enroll new members and support local initiatives and further collaboration
- Further research project elaboration (international RCT on feeding tolerance, on PICU muscle wasting, on early mobilisation); publication of current studies

### Resources & enablers

#### • Describe personnel, financial needs

NutriSIP would benefit from the support of a professional research support team (librarian, data manager, statistician), and of a webmaster to build the website. The grant would allow NutriSIP members to meet regularly (meeting/travel expenses) in order to efficiently build and follow their projects. It would also help to organise next "NutriSIP-day" sessions, and allow expert members to meet local PICU teams to support initiative to build local guidelines.

#### • What factors will make it successful?

NutriSIP members are all volunteers and their motivation, expertise and involvement will guarantee the success of the projects. Other funding sources from scientific grants have been obtained in the past; new applications are scheduled.

### Results/outcomes & expected impact

- Results of our various projects will be disseminated through NutriSIP website, through scientific publication, congresses, future textbooks, next editions of Nutrisip-day
- NutriSIP aims to improve knowledge of local healthcare professionals, responsible for critically ill children nutrition, and in consequence improve PICU nutritional practices
- No such initiative existed in PICUs before NutriSIP in France, Belgium and Switzerland; Nutrition was not considered a first line treatment in this setting ; NutriSIP aims to bring nutrition back to the first line in PICU, national and international wide.