

NutriSIP

Nutrition research and education program implementation across French speaking European areas: an ambitious project to improve nutritional care and outcome in critically ill children

NutriSIP: French speaking PICU nutrition task force



Frédéric Valla: + 33 4 72 12 97 37. Email address: frederic.valla@chu-lyon.fr

Background: nutritional status in pediatric intensive care units (PICU)

Malnutrition prevalence rate is high (15-25%)

An optimal nutritional intake is associated by decreased morbidity and mortality

PICU teams face difficulties to reach validated specific nutrition goals

An overall nutrition strategy has a proven positive impact on outcome

Insufficient nutrition care knowledge was confirmed in various studies (both clinicians and nursing staff surveys)

As a result, PICU nutritional support needs urgent improvement

NutriSIP missions and activities

Promotion of Nutrition good practices for the critically ill child:

- 1. PICU nutrition teaching program implementation
- 2. PICU nutrition good practice dissemination
- 3. PICU nutrition research project elaboration
- → Since 2013, the NutriSIP has gathered PICU dieticians and clinicians from 3 French speaking countries (PICU teams from Brussels-B, Lausanne-CH, Lyon-F and Nantes-F are currently leading the NutriSIP, in close collaboration with 5 other PICUs)

Implementation

- 1. "NutriSIP day teaching course" first edition in october 2015 in Paris, gathering 26 PICU clinicians and dieticians.
- 2. NutriReaped survey: international survey on nutrition practices among 44 French-speaking PICUs
- 3. NutriReaped study: PICU admission nutritional status assessment among 40 PICUs
- 4. Lectures and oral communications in various congresses and meetings (SRLF 2014, JFN 2013-14-15, ESPNIC 2014-15)
- 5. Ongoing research study about feeding intolerance
- 6. Gastrostomy leaflet elaboration and dissemination, improvement of oral nutrition as development care and post traumatic stress prevention strategies
- → Financial support: phamaceutical industries with interest on nutrition
- → Partnership with other French-speaking and international scientific socities (GFRUP, SFNEP, ESPEN)

Results and outcomes

- 1. Striking positive feedback of "NutriSIP day teaching course", new sessions planned annually in collaboration with GFRUP
- 2. Further research projects (multicenter RCT assessing feeding tolerance, survey on early mobilisation in PICU)
- 3. Dissemination of good practice and elaboration of NutriSIP PICU nutrition guidelines
- 4. Extension of NutriSIP networking programs to welcome new members and encourage local projects and further

collaboration

5. First publications (Valla FV et al, J Pediatr Gastroenterol Nutr., 2016;

Lefrant J-Y et al, Ann Fr Anesth Reanim, 2014; Valla FV et al, PCCM, 2015;

Valla FV et al, Anesth Réanimation, 2015; Hubert A et al, Arch Pédiatrie, 2016)

6. NutriSIP website project: connection to the teaching course, publications and guidelines





Conclusions and perspectives

- Improving PICU nutrition evidence and PICU team knowledge will lead to better nutritional practices and hopefully outcomes of critically ill children.
- NutriSIP is currently looking for fundings to support its education and research future projects (local project support, website contruction, communication and meetings, RCT elaboration, etc.)

SRLF: société de réanimation en langue française; JFN: Journée francophone de nutrition; GFRUP: groupe francophone de réanimation urgence pédiatrique; SFNEP: société française de nutrition entérale et parentérale; ESPNIC: European Society of paediatric and Neonatology Intensive Care