

Report of the ESPN CKD-MBD Working Group 2019, ESPN Council Meeting Leuven

Coordinator: D. Haffner; board members: J. Groothoff, R. Shroff, R. Bacchetta, S. Bakkaloglu



Educational projects

1. Phosphate Education Program (PEP) (coordinator: S. Bakkaloglu):

- New strategies in *hyperphosphatemia management*; ESPN research grant **2014.01**
- Detailed educational material & cell phone application accomplished. Distributed to ESPN units by January 2020. Evaluation of pilot study in June 2020. Data base and Webpage for data entry created by August 2020.

New guidelines and best practice recommendations (n=9)

1. Clinical practice recommendations for use of GH in children with CKD (coordinator: D. Haffner)

- Joint project: ESPN CKD-MBD, Dialysis & Transplant WGs; 2 meeting were held (n=9)
- *Published in Nature Review Nephrol in March 2019*

2. Clinical practice recommendations on the use of cinacalcet in children on dialysis (coordinator: J. Bacchetta)

- Joint project: ESPN CKD-MBD & Dialysis WGs
- *Published in Nephrol Dial Transplant in October 2019*

New guidelines and best practice recommendations

3. Clinical practice recommendations for bone evaluation in pediatric CKD

(coordinator: S. Bakkaloglu)

- Joined project: ESPN CKD-MBD WG and EUROD (Pieter Evenepoel)
- Manuscript will be submitted to *Nephrol Dial Transplant* by December 2019

Renal Nutrition Taskforce (coordinator R. Shroff)

Collaboration of CKD and dialysis WGs, 14 members from Europe and North America; 7 nephrologists and 7 dietitians.

4. Dietetic management of calcium-phosphate in CKD2-5D

Accepted by Pediatric Nephrology in September 2019

5. Protein-energy management of children with CKD 2-5D

Submission to Pediatric Nephrology by November 2019

6. Vitamin and mineral requirements in children with CKD 2-5D

7. Delivery of the nutritional prescription (gastrostomy tube feeding)

8. Dietary management of potassium in children with CKD 2-5D

6.-8. submission to Pediatric Nephrology in 2019-2020

Guideline to start with in 2020

9. Management of CKD-MBD post KTx (coordinator D. Haffner)

Collaboration of CKD-MBD and Transplant WGs

Clinical studies (n=4):

1. Assessment of calcium balance in children with chronic kidney disease to optimise treatment strategies (*Cal-Bal study*), (coordinator: R. Shroff)

- Jonit venture: ESPN CKD-MBD & Dialysis WGs; 7 centres in 6 countries: London, Heidelberg, Hannover, Lyon, Athens, Adana and Vilnius; ESPN grant **2016.02** (€15,000)
- Enrollment was started on time in 2017. More than 130 children were recruited so far!

2. Impact of active vitamin D on left ventricular hypertrophy and FGF23/klotho system in renal failure (coordinator M. Leifheit-Nestler)

- Joint project: ESPN CKD-MBD WG and 4C Study consortium; ESPN grant **2018.01**
- Manuscript will be submitted to *Nephrol Dial Transplant* by December 2019

3. GH treatment and CV outcomes in CKD children (coordinator: Stella S)

- Hypothesis => GH treatment may also affect outcomes beyond height, mediated through enhanced anthropometric measures or through alterations in the consortium of cardiovascular disease
- GH and CV outcomes => to discuss with 4C to organize a case/control design

4. Collaboration with Certain registry- study on mineral bone metabolism after renal transplantation (coordinator: Agnieszka P)

- To analyze the evolution of hyperparathyroidism following renal transplantation
- To identify the clinical and biochemical correlates of hyperparathyroidism with emphasis