Educational projects

1. **Phosphate Education Program (PEP)** (coordinator: S. Bakkaloglu):
   - New strategies in *hyperphosphatemia management*; ESPN research grant **2014.01**

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 then 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

Dieter Haffner on behalf of the members of the ESPN CKD-MBD working group, 9.10.2019