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. Dietetic management of calcium-phosphate in CKD2-5D  
   (coordinator: R. Shroff); Renal Nutrition Taskforce  
   • Manuscript published in *Pediatr Nephrol in December 2019*

4. Protein-energy management of children with CKD 2-5D  
   (coordinator: R. Shroff); Renal Nutrition Taskforce  
   • Manuscript published in *Pediatr Nephrol in December 2019*

5. 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 June 2020*

Renal Nutrition Taskforce (coordinator R. Shroff)  
Collaboration of CKD and dialysis WGs, 14 members from Europe and North America; 7 nephrologists and 7 dietitians.

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  
9. Management of obesity / metabolic syndrome in children with CKD  
   6-9. submission to *Pediatric Nephrology in 2020-21*

Guideline to start in 2020  
10. Management of CKD-MBD in infants (coordinator J. Bacchetta)  
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 March 2020

3. **GH treatment and CV outcomes in CKD children** (coordinator: S. Stabouli)
   - GH and CV outcomes: a case-control study; Joint project: ESPN CKD-MBD WG and 4C Study

4. **Collaboration with Certain registry- study on CKD-MBD 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
   - Joint project: ESPN CKD-MBD and transplantation WGs and CERTAIN registry

Dieter Haffner on behalf of the members of the ESPN CKD-MBD working group, 4.2.2020