

## **Name of the WG**

### **2024 annual report**

#### ***Number of members of the WG in 2024:***

*Board composition in 2024:*

**Chair:** Rukshana Shroff

**Board members:**

- Sevcn Bakkaloglu
- Bruno Ranchin
- Enrico Vidal
- Ilona Zagodzdzon

**Member of the YPNN:** Evelien Snauwaert

*Results of the vote in December for the replacement of vacant positions. Please indicate which board member is rotating off.*

We will need elections at / after the ESPN meeting in October to replace the following (highlighted in grey). However, they can all apply for a second term or to stand for the Chair and replace me (I will not apply for a second term).

**Chair -** Rukshana Shroff (elected Oct 2022)

**Board**

- Ilona Zagodzdzon (elected Sept 2023)
- Enrico Vidal (elected Sept 2023)
- Sevcn Bakkaloglu (elected Oct 2022)
- Bruno Ranchin (elected Oct 2022)
- Evelien Snauwaert (young fellow; elected Oct 2022)

#### **Brief description of the scope of the WG** (may be repeated every year - max 100 words)

The scope of the ESPN Dialysis WG is to promote education, research and guideline development in the field of paediatric dialysis.

#### **WG activities during the year 2024** (including meetings of the WG - max 500 words)

- Membership increased from 52 to 119
- Two zoom meetings per year
- New partnerships and 2 key new subgroups:
  - AKI subgroup

- Medical Devices subgroup
- Cross-WG activities with CKD, Transplantation and Glomerular Diseases WGs, ERKNET, ERA (EUDial and EUROD), the Pediatric Renal Nutrition Taskforce, and the Green Nephrology Taskforce

## Publications of the WG in 2024

1. Ranchin B, Schmitt CP, Warady BA, Hataya H, Jones J, Lalji R, Licht C, Mosca M, Stronach L, Vidal E, Walle JV, Shroff R. Technical requirements and devices available for long-term hemodialysis in children-mind the gap! *Pediatr Nephrol*. 2024 Sep;39(9):2579-2591. doi: 10.1007/s00467-023-06233-0. PMID: 38141144.
2. Vedrine, E., Schmitt, C.P., Walle, J.V. *et al*. Survey of legislative frameworks and national recommendations governing paediatric maintenance haemodialysis in Europe. *Pediatr Nephrol* (2025). <https://doi.org/10.1007/s00467-025-06667-8>
3. Jørgensen HS, Vervloet M, Cavalier E, Bacchetta J, de Borst MH, Bover J, Cozzolino M, Ferreira AC, Hansen D, Herrmann M, de Jongh R, Mazzaferro S, Wan M, Shroff R, Evenepoel P. The role of nutritional vitamin D in CKD-MBD in children and adults with CKD, on dialysis and after kidney transplantation - a European consensus statement. *Nephrol Dial Transplant*. 2025 Jan 28:gfae293. doi: 10.1093/ndt/gfae293. Epub ahead of print. PMID: 39875204.
4. Battaglia Y, Shroff R, Meijers B, Nistor I, Alfano G, Franssen C, Luyckx V, Liakopoulos V, Mantovani A, Baciga F, Caccia F, Momentè C, Davenport A, Blankestijn PJ, Covic A, Combe C, Basile C. Haemodiafiltration versus high-flux haemodialysis - a Consensus Statement from the EuDial Working Group of the ERA. *Nephrol Dial Transplant*. 2025 Feb 6:gfaf024. doi: 10.1093/ndt/gfaf024. Epub ahead of print. PMID: 39914451.
5. Bacchetta J, Schmitt CP, Bakkaloglu SA, Cleghorn S, Leifheit-Nestler M, Prytula A, Ranchin B, Schön A, Stabouli S, Van de Walle J, Vidal E, Haffner D, Shroff R. Diagnosis and management of mineral and bone disorders in infants with CKD: clinical practice points from the ESPN CKD-MBD and Dialysis working groups and the Pediatric Renal Nutrition Taskforce. *Pediatr Nephrol*. 38(9):3163-3181. doi: 10.1007/s00467-022-05825-6. PMID: 36786859; PMCID: PMC10432337.
6. Bakkaloglu SA, Özdemir Atikel Y, Schmitt CP, Lévai E, Adalat S, Goodman N, Dursun İ, Pınarbaşı AS, Yazıcıoğlu B, Paglialonga F, Vondrak K, Guzzo I, Printza N, Zurowska A, Zagożdżon I, Karabay Bayazit A, Atmış B, Tkaczyk M, Faria MDS, Zaloszc A, Jankauskienė A, Ekim M, Edefonti A, Shroff R. Comparative analysis of hospitalizations among patients treated with hemodialysis and peritoneal dialysis in European pediatric nephrology centers: results from a prospective EPDWG/ESPN Dialysis Working Group study. *Clin Kidney J*. 28;17(1):sfad291. doi: 10.1093/ckj/sfad291. PMID: 38223336; PMCID: PMC10784969. eCollection 2024 Jan

## From the Pediatric Renal Nutrition Taskforce (PRNT):

1. Shaw V, Anderson C, Desloovere A, Greenbaum LA, Harshman L, Nelms CL, Pugh P, Polderman N, Renken-Terhaerd J, Snauwaert E, Stabouli S, Tuokkola J, Vande Walle J, Warady BA, Paglialonga F, Shroff R. Nutritional management of the child with chronic

- kidney disease and on dialysis. *Pediatr Nephrol*. 2025 Jan;40(1):69-84. doi: 10.1007/s00467-024-06444-z. Epub 2024 Jul 10. PMID: 38985211; PMCID: PMC11584487.
2. Desloovere A, Polderman N, Renken-Terhaerd J, Shaw V, Anderson C, Greenbaum LA, Nelms CL, Qizalbash L, Stabouli S, Tuokkola J, Warady BA, Vande Walle J, Paglialonga F, Shroff R, Snauwaert E. The Management of Dietary Fiber Intake in Children With Chronic Kidney Disease - Clinical Practice Recommendations From the Pediatric Renal Nutrition Taskforce. *J Ren Nutr*. 2025 Jan;35(1):207-220. doi: 10.1053/j.jrn.2024.05.008. Epub 2024 Jun 10. PMID: 38866350.
  3. Anderson CE, Tuokkola J, Qizalbash L, Harmer M, Nelms CL, Stabouli S, Toole B, Polderman N, Desloovere A, Renken-Terhaerd J, Vega MRW, Snauwaert E, Walle JV, Haffner D, Paglialonga F, Shroff R, Shaw V, Greenbaum LA, Warady BA. Assessment and management of vitamin status in children with CKD stages 2-5, on dialysis and post-transplantation: clinical practice points from the Pediatric Renal Nutrition Taskforce. *Pediatr Nephrol*. 2024 Oct;39(10):3103-3124. doi: 10.1007/s00467-024-06303-x. Epub 2024 Apr 4. PMID: 38570350; PMCID: PMC11349803.

#### Projects/plans for 2025 (max 300 words)

|                                     | Project title   | Lead investigators                         | Start date | End date                       |
|-------------------------------------|---|--|------------|--------------------------------|
| <b>Guidelines</b>                   |   |  |            |                                |
| 1                                   | Evaluation for cardiovascular disease in children with CKD, on dialysis and after transplantation   | S. Stabouli<br>R. Shroff                   | 30/11/22   | Completed – sending for Delphi |
| 2                                   | Prevention and management of cardiovascular disease in children with CKD, on dialysis and after transplantation                                   | S. Stabouli<br>R. Shroff                   | 01/06/24   | Completed – sending for Delphi |
| 3                                   | Prevention and treatment of HD catheter related infections  | S. Bakkaloglu                              | 01/12/23   | ...                            |
| 4                                   | The role of nutritional vitamin D in CKD-MBD - a European consensus statement.  | P. Evenepoel, J Bacchetta, R. Shroff       | 01/09/23   | published                      |
| <b>Randomised Controlled Trials</b> |   |  |            |                                |
| 1                                   | Comparison of pre vs post-dilution hemodiafiltration modalities – effects on biocompatibility and solute clearance. A randomized crossover trial. | A. Agbas, B Ranchin, C. Schmitt, R. Shroff | 01/02/21   | completed                      |
| 2                                   | Lowering dialysate sodium in children on maintenance HDF: multicenter RCT.  | F. Paglialonga                             | 01/09/24   | 28/02/26                       |

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|                                   | Project title   | Link / QR code  | Lead investigators                                  | Start date | End date  |
|-----------------------------------|---|---|---|------------|-----------|
| <b>Prospective cohort studies</b> |   |   |   |            |           |
| 1                                 | A follow-up study of the EurAKId Registry on the risk of CKD after AKI in children                            |   | R. Baptista, J. Oh, I. Guzzo, Z. Arslan, A. Cappoli | 02/2024    | completed |
| 2                                 | CKD and dialysis in children with failing kidney allografts   |   | Z. Arslan, R. Shroff                                | 02/2023    | completed |
| 3                                 | European Paediatric Access to Kidney Transplantation (EuPAKT)   | <a href="https://certain-registry.kikli.uni-heidelberg.de/research/">https://certain-registry.kikli.uni-heidelberg.de/research/</a> | J. Kim, S. Marks                                    | 10/2020    | 09/2024   |
| 4                                 | Prevalence and risk factors for fractures in European children with CKD, on dialysis and post transplantation |   | A. Lalayiannis<br>R. Shroff                         | 12/2022    | completed |
| 5                                 | Growth and CV outcomes in children on intensified dialysis regimens (home HD and HDF) vs conventional HD      |   | C. Ahlmann, J. Oh, I. Madden, R. Shroff             | 05/2023    | 06/2024   |
| 6                                 | IMPACT STUDY - improving phosphate control in children with CKD   |   | L. McAlister, R. Shroff                             | 03/2023    | 12/2024   |

|                | Project title  | Link / QR code  | Lead investigators                      | Start date | End date  |
|----------------|--|---|---|------------|-----------|
| <b>Surveys</b> |  |   |   |            |           |
| 1              | European hemodialysis survey   | <a href="https://docs.google.com/forms/d/e/1FAIpQLSelmvwDz9XG80mtl7Pwbq475bm-ijhgNpVLDSi5Duy8E2wl2g/viewform?usp=pp_url">https://docs.google.com/forms/d/e/1FAIpQLSelmvwDz9XG80mtl7Pwbq475bm-ijhgNpVLDSi5Duy8E2wl2g/viewform?usp=pp_url</a> | B. Ranchin                              | 01/23      | published |
| 2              | Persistent hypotension in anephric children on PD or HD  | <a href="https://forms.gle/EiKrVyMYA2kWFC1s6">https://forms.gle/EiKrVyMYA2kWFC1s6</a>   | S. Tellier, J. Blot                     | 06/22      | 06/24     |
| 3              | HD catheter related infections survey  |   | S. Bakkaloglu                           |            | completed |
| 4              | Pseudotumor cerebri and hypervitaminosis A in pediatric patients with CRF  |   | B. Utsch, C. Schmitt                    |            |           |
| 5              | Neonatal Acute Kidney Injury: A Survey of Neonatologists' and Nephrologists' Perceptions and Practice Management |   | R. Baptiste, J. Oh, I. Guzzo, Z. Arslan |            |           |
| 6              | Promoting sustainable nephrology practices   | <a href="https://forms.gle/EFZCo6HKf3BAWw8r9">https://forms.gle/EFZCo6HKf3BAWw8r9</a>   | A. Bayazit<br>R. Shroff                 | 02/24      |           |
| 7              | Is it safe to manage congenital nephrotic syndrome without regular albumin infusions?                            |   | M. Scott, M. Marlais, H. Webb           | 05/24      |           |
| 8              | Survey on Intraperitoneal Pressure (IPP) Measurement   | <a href="https://docs.google.com/forms/d/e/1FAIpQLSecpUhfD1zjnBiBnZbb88snVuyRovK_ioAdtGSK0hVKdgo9IA/viewform">https://docs.google.com/forms/d/e/1FAIpQLSecpUhfD1zjnBiBnZbb88snVuyRovK_ioAdtGSK0hVKdgo9IA/viewform</a>                       | A. Zaloszc and<br>C. Schmitt            | 09/24      |           |