

## **WG Transplantation**

### **2023 annual report**

***Number of members of the WG in 2023: 96***

*Board composition in 2023:*

**Chair:** Lars Pape

**Board members:** Agnieszka Prytula  
Nele Kanzelmeyer  
Stephen Marks  
Britta Hoecker

**Member of the YPNN:** Evgenia Preka

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

**Newly elected board member/s (serving from January 1<sup>st</sup>, 2024):**

No election, as all board members have been newly assigned 2023.

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

The WG Transplantation is associated with the CERTAIN Registry and the WG Transplantation of ERKnet. Scope is the support of research for transplanted children within the CERTAIN-network, the creation of educational activities in pediatric kidney transplantation and the creation of guidelines.

**WG activities during the year 2023** (including meetings of the WG - max 500 words)

CERTAIN virtual meeting , 12<sup>th</sup> May 2023

CERTAIN Workshop Heidelberg, 8-9<sup>th</sup> December 2023

**Publications of the WG in 2023**

Kim JJ, Fichtner A, Copley HC, Gragert L, Süsal C, Dello Strologo L, Oh J, Pape L, Weber LT, Weitz M, König J, Krupka K, Tönshoff B, Kosmoliaptsis V. Molecular HLA mismatching for prediction of primary humoral alloimmunity and graft function deterioration in paediatric kidney transplantation. *Front Immunol.* 2023 Mar 15;14:1092335. doi: 10.3389/fimmu.2023.1092335. Erratum in: *Front Immunol.* 2023 Mar 24;14:1188527. PMID: 37033962; PMCID: PMC10080391.

Oomen L, De Wall LL, Krupka K, Tönshoff B, Wlodkowski T, Van Der Zanden LF, Bonthuis M, Duus Weinreich ID, Koster-Kamphuis L, Feitz WF, Bootsma-Robroeks CM. The strengths and complexities of European registries concerning paediatric kidney transplantation health care. *Front Pediatr*. 2023 Mar 22;11:1121282. doi: 10.3389/fped.2023.1121282. PMID: 37033192; PMCID: PMC10073744.

Hogan J, Divard G, Aubert O, Garro R, Boyer O, Donald Cooper LA, Farris AB, Fila M, Seifert M, Sellier-Leclerc AL, Smith J, Fichtner A, Tönshoff B, Twombly K, Warady B, Pearl M, Zahr RS, Lefaucheur C, Patzer R, Loupy A. Validation of a prediction system for risk of kidney allograft failure in pediatric kidney transplant recipients: An international observational study. *Am J Transplant*. 2023 Oct;23(10):1561-1569. doi: 10.1016/j.ajt.2023.07.004. Epub 2023 Jul 13. PMID: 37453485.

### **Projects/plans for 2024 (max 300 words)**

- Machine Learning in the CERTAIN Registry (JJ Kim)
- Case Vignettes (Nele Kanzelmeyer)
- Educational Materials for Families (Nele Kanzelmeyer)
- Guideline on Immunosuppression in Ped Tx
- ReadySteadyGo Transition program in different languages
- Survey on C3G and IC-MPGN in children before/after kidney Tx
- Management of the failing transplant (Zainab Arslan)
- Fractures in European Children with CKD, on Dialysis and Post Transplantation study (Alex Lalayiannis)

### **Actual Studies within the Certain Registry**

1. Antibody-mediated Rejection in European Paediatric Renal Transplant Recipients: Incidence, Risk Factors and Outcome (ABMR 2016)
2. Long-term outcome after pediatric combined liver and kidney transplantation: A CERTAIN Registry analysis (KLTX 2018)
3. Recurrence of nephrotic syndrome after paediatric kidney transplantation in Europe: risk factors, treatment and outcome (SRNS 2019)
4. Metabolic acidosis after paediatric RTx: risk factors, management strategies and association with longitudinal growth
5. Arterial hypertension and cardiovascular comorbidity after renal transplantation – triggers, treatment and sequelae (Hypertension 2020)
6. Validation of a prediction system for risk of allograft loss in children receiving kidney transplants (iBOX) - Database closed
7. Definition and validation of the impact of tacrolimus variability and concentration/dose ratio on allograft rejection, function and tacrolimus-related toxicity in paediatric kidney transplant recipients
8. The impact of delayed graft function on rejection and long-term outcome in paediatric kidney transplant recipients - a multicentre matched case-control study - Database closed
9. Risk-prediction model for delayed graft function in paediatric kidney transplant recipients - an analysis based on the CERTAIN research network (DGF 2022) - Database closed
9. HPVaxResponse Study

## 10. EuPAKT Study