

Report of activities of ESPN Working Group

Name of Working Group	CAKUT/UTI/BLADDER DISORDERS
Year	2021
WG Coordinator	Silvio Maringhini
WG Board Members	Julia Hoefele, Velibor Tasic, Marcin Tkaczyk, Fatos Yalcinkaya
Number of WG Members	73

Research Activities

A.Completed Studies (Title, coordinator, short content (max 1-2 sentences)):
The PREDICT Trial: Antibiotic Prophylaxis and RENal Damage In Congenital abnormalities of the kidney and urinary Tract (Giovanni Montini). The results will be published in the next months

B.Ongoing Studies (Title, coordinator, short content (max 1-2 sentences)):
APRIC Study: BP dipping in children with congenital anomalies of the kidney and urinary tract (Silvio Maringhini). Approved by the coordinating Ethical Committee, 15 Centers participating. Results are expected in three years. Renal tract malformations: from human genomics to novel therapies (Adrian Woolf). Working on modelling HNF1B disease using pluripotent stem cell technology, and trying to find drugs that improve the phenotype of mutant HNF1B kidney organoids UTIs caused by phenotypically ESBL-producing pathogens (John Dotis). EURECA Registry: European Registry for Familial CAKUT Cases. (Julia Hofele). Ethical Committee has approved the study.

C.Planned Studies (Title, coordinator, short content (max 1-2 sentences)):
Urinary microRNAs and Renal Scar in Acute Pyelonephritis (Demet Alaygut): Investigate urinary microRNAs in urine of children with acute pyelonephritis in order to find some related to production of renal scars. Uromodulin, urinary tract infections and renal scars (Ciro Corrado): To evaluate if some uromodulin alleles are associated with increased risk of UTI or renal damage Aetiology of renal and urinary tract anomalies defines Diagnostic Efficacy and Clinical Outcome – study protocol of the ArtDECO study (Jaap Mulder)

Guideline Projects (Title, coordinator)

Consensus on "kidney dysplasia" (in collaboration with ERKNet). Max Liebau European UTI guidelines (Per Brandström, Silvio Maringhini, Giovanni Montini, Johan Van de Valle)

WG Meetings (Date – Place)

Webinar January 29th, 2021. “Uromodulin and control of UTI” (Oliver Devuyst). “Role of FGFR2 in bladder urothelial injury and repair” (Carlton Bates). "From low birth weight to CAKUT: implications for adulthood" (Robert Chevalier).

Webinar and Meeting May 4th, 2021. Lecture: Blood Pressure Control in Chronic Kidney Disease (Carmine Zoccali)

Webinar February 14th, 2022. Kidney Transplantation in Children with CAKUT (Thembisile Mosalakatane, Jeanette Raad and Mignon McCulloch). UTI Guidelines (Per Brandström). Central Blood Pressure (Mieczysław Litwin)

Publications

A. Published papers (bibliography):

- PMID: 34737334
- PMID: 33940108

B. Submitted papers:

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Presentations at conferences during the year

A. Oral presentations:

Digital Educational Platform for Pediatric Bladder Conditions (DEPPU)

B. Poster presentations:

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