

Report of activities of ESPN Working Group

Name of Working Group	CAKUT, Urinary Tract Infection, Bladder Dysfunction
Year	2021
WG Coordinator	Silvio Maringhini
WG Board Members	Julia Hoefele, Velibor Tasic, Marcin Tkaczyk, Fatos Yalcinkaya
Number of WG Members	68

Research Activities

A.Completed Studies (Title, coordinator, short content (max 1-2 sentences)):
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B.Ongoing Studies (Title, coordinator, short content (max 1-2 sentences)):
<ol style="list-style-type: none">1. 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 years2. PREDICT Trial: Antibiotic Prophylaxis and RENal Damage In Congenital abnormalities of the kidney and urinary Tract (Giovanni Montini). The study has been completed; results will be available in the next months3. 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 organoids4. UTIs caused by phenotypically ESBL-producing pathogens (John Dotis)5. EURECA Registry: European Registry for Familial CAKUT Cases. (Julia Hofele). Ethical Committee approval pending.

C.Planned Studies (Title, coordinator, short content (max 1-2 sentences)):
<ol style="list-style-type: none">1. 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 scars2. Uromodulin, urinary tract infections and renal scars (Ciro Corrado): To evaluate if some uromodulin alleles are associated with increased risk of UTI or renal damage3. 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)

1. Consensus on "kidney dysplasia" (in collaboration with ERKNet). Max Liebau
2. European UTI guidelines (Per Brandström, 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)

Publications

A. Published papers (bibliography):

Digital Educational Platform for Pediatric Bladder Conditions (DEPPU)

B. Submitted papers:

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Presentations at conferences during the year

A. Oral presentations:

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Transitional Urology. Life long follow up of common paediatric urological conditions. ESPU & ICCS & ESPN

UTI & VUR ESPU & ICCS & ESPN

Progression of Renal Insufficiency in Congenital Abnormalities of Kidney and Urinary Tract (CAKUT) ESPN/IPNA/ESPU digital Training Course

B. Poster presentations:

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