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Recent Advances in Congenital Anomalies of the Kidneys and Urinary Tract (CAKUT)

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Message from the Guest Editors

Congenital anomalies of the kidneys and urinary tract (CAKUT) are common malformations and may produce variable kidney damage, which, in some cases, leads to end-stage renal disease (ESRD). CAKUT constitute a frequent cause of birth defects (approximately three to six per 1000 live births). CAKUT may occur either as an isolated condition or as part of a syndromic disorder. Monogenic mutations are responsible for CAKUT in 10–15 % of cases; new genetic studies, including whole-exome sequencing, provide an etiologic diagnosis for many patients. Autosomal dominant polycystic kidney disease (ADPKD) is the most common monogenic cause of renal failure in adults, but it is well known that the disease course begins in childhood. Vesicoureteral reflux (VUR) is defined as the retrograde movement of urine from the bladder into the ureter(s). Children may present with a solitary functioning kidney (SFK) as a consequence of a congenital non-functioning kidney, or after nephrectomy, SFK may lead to renal injury that may end in end-stage renal disease (ESRD).

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Message from the Editor-in-Chief

Pediatric Reports (PR) journal is a publishing platform for all topics concerning pediatrics, from basic research to bedside care. We aim at targeting a composite audience, from experienced pediatricians to young residents and fellows. Clinical observation of unusual cases will find their tribune, as well as trial reports and results of research related to diseases that may represent frequent or rare events faced by Pediatricians. We look forward to continuing the work done in the past years by *Pediatric Reports*, but also make the journal grow according to changing expectations and attitudes of both, clinicians and researchers who work for more effective pediatric care.

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