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EVALUATION OF VOIDING DYSFUNCTION IN CHILDREN WITH URINARY TRACT INFECTION

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Background: Urinary tract infection in children may cause parenchymal damage due to voiding dysfunction.

Objective: We aim to establish an urodynamic and uroflowmetry parameters in Iranian children referred for urinary tract infection (UTI) compared with normal findings in similar age group in Iranian population.

Methods: Two hundred and ninety eight voiding parameters were performed between 2000 and 2010 on patients referring with UTI ages between 2 to 15 years. The maximal and average urine flow rate and urine volume were evaluated in uroflowmetry and maximal detrusor pressure in voiding were measured in urodynamic study. Two hundred ninety eight studies from 236 girls and 62 boys were considered in this study.

Results: The maximal and average urine flow rate was measured for both girls and boys. Mean maximum and average urine flow rate was 25.86 and 10.03 (ml/sec) for boys with 28.12 and 11.10 (ml/sec) for girls with a mean voided volume of 198.80 (ml) for boys and 207.79 (ml) for girls. Urine volume showed significant increase with increasing age. Average

flow rate showed close association with maximum detrusor pressure, maximum flow and urine volume. The maximum flow rates showed close association with urine volume. The mean maximum flow rates were higher in girls and boys with urinary tract infection compared to normal population and the mean average flow rates were higher in both sexes with UTI compared to normal population.

Conclusion: This study showed the higher maximum, average flow rates, urine volume and detrusor pressure in children with UTI compared to normal population which confirmed higher voiding pressure pattern in affected children

Biography

Banafshe Dormanesh has completed her Medicine in 1993; Pediatric Specialty in 1997 and Pediatric Nephrology subspecialty in 2002 from the Tehran University of Medical Sciences. She is an Associate Professor in Pediatric Nephrology and is the Head of Pediatric Department in Faculty of Medicine. She has published more than 60 papers and book chapters. She is an Associate Editor in AMHSR Journal and Head of the Editorial Board Member (Clinical Sciences and Practice, Family Medicine) in JAMM Journal.

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