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Labial adhesion in prepubertal girls and its association with asymptomatic bacteriuria

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Background: Labial fusion which is not a rare condition in girls can be terminated to urine retention above the thin membranous layer of the labia minor and often it is considered as being normal post voiding dripping. It can caused recurrent ranges of UTIs from an asymptomatic to serious pyelonephritis.

Methods: In this study, we interviewed 140 school girls between 7-12 year old and we asked for symptoms such as vaginal irritation, dysuria, UTI history, discharge and post voiding dripping. Also, we took urine sample for analysis and culture and then we checked them for labial adhesion.

Results: Of 140 girls, 11 (7.8%) had labial adhesion. Eight (72%) of these girls didn't have any complaint, but in physical exam we found vaginal discharge and unpleasant vaginal odor. Two girls (18%) had vaginal irritation and only one (9%) of them had dysuria. All of their mothers (100%) gave us post voiding dripping history, but none of them were considered it abnormal. Only 13 children (9%) had a positive past history for UTI and all of them were cystitis and four of them had frequent cystitis. The important point is nine of them (70%) had labial adhesion and all four frequent cystitis had labial adhesion. We found 46 (32%) asymptomatic bacteriuria and *E. coli* was most frequently isolated in 30 samples (65%) followed by *Staphylococcus* in eight samples (17%). In these patients, we found nine girls (19%) with labial adhesion.

Conclusion: Based on these findings, it becomes clear that labial adhesion is not a rare condition in girls and we have to think about it especially in frequent cystitis, even without complaint. It is important to treat these cases before causing problem.

Biography

Assistant Professor of Pediatric Nephrology, AJA University of Medical Sciences, Faculty of Medicine, (Apr.2006 – Jan.2015), Associate Professor of Pediatric Nephrology, AJA University of Medical Sciences, Faculty of Medicine, (Jan.2015 - present), Head of Nephrology Department, Faculty of Medicine, AJA University of Medical Sciences (Apr 2006- Apr 2007), Member of Research Council, Faculty of Medicine, AJA University of Medical Sciences (Sep 2006- Sep 2007). She has been awarded as the Outstanding Professor of AJA University of Medical Sciences for the years (May 2006, 2007, 2008, 2009). She is the member of the Iranian Society of Nephrology (2001 – present), Iranian Societies in Pediatric Nephrology (ISPN) (2001 – present), International Society of Nephrology (ISN) (2001 – present), Iranian society of Pediatricians (1997 - present).

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