

Flexible Ureterorenoscopy as a New Possibility of Treating Nephrolithiasis in Children - Preliminary Reports

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Abstract : Introduction: Flexible ureterorenoscopy is a surgery technique used for the treatment of the upper urinary tract. It is very often used in adult patients; however, due to the advancing miniaturization of the equipment as well as its precision, this technique has also become possible in the treatment process in children. Material and method: We would like to present 26 cases of flexible ureterorenoscopy carried out in children with nephrolithiasis of the upper urinary tract aged 6 to 17 years. The average age was 9.5 years and the children were treated in our department from June 2013 to January 2015. The first surgery in Poland took place in our Department on 06.06.2013. Because of nephrolithiasis all the children had been subjected earlier to ESWL treatment, which was unsuccessful. Results: 14 children had deposits in the lower calyx, 9 children had deposits in the middle and lower calyx and in 3 children a stone was located in the initial ureter. An efficiency of 88 % was achieved. Conclusions: Flexible ureterorenoscopy is effective and minimally invasive tool both for the diagnosis and treatment of upper urinary tract. We believe that the advancing miniaturization of the equipment and gaining experience will enable carrying out of this procedure in smaller children with high efficiency.

Keywords : flexible ureterorenoscopy, urolithiasis, endourology, nephrolithiasis

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