

Start	End	Topic	Speakers
16:30	16:50	The pathophysiology of pediatric neurogenic bladder (PNB)	Christopher Cooper
16:50	17:10	Urodynamic study (UDS) and result analysis in evaluation of neurogenic bladder in children.	Jian Guo Wen
17:10	17:30	Non-surgical treatment of pediatric neurogenic bladder	Soren Rittig
17:30	17:50	Surgical procedures in treatment of pediatric neurogenic bladder	Israel Franco
17:50	18:00	Discussion	Jian Guo Wen

### **Aims of Workshop**

Pediatric neurogenic bladder (PNB) is frequently confronted in clinical practice and severely affects the quality of life, especially in cases with incontinence and upper urinary tract deterioration. The urodynamic study (UDS) helps to define the type and severity of PNB and to guide the most effective treatment protocol. In addition, urodynamic evaluation results are prognostic of the risk for upper urinary tract damage as well as treatment efficacy. This workshop will describe the advanced knowledge of PNB related to the pathophysiology, the correct performance and interpretation of UDS results as well as its application in diagnosis and treatment, and the best strategy in different treatment procedures.

### **Learning Objectives**

To understand the pathophysiology of PNB and learn how to perform the pediatric urodynamic study (UDS) as well as analyze its result, especially in children with PNB.

### **Target Audience**

Urology, Urogynaecology and Female & Functional Urology, Bowel Dysfunction, Conservative Management

### **Advanced/Basic**

Advanced

### **Suggested Learning before Workshop Attendance**

1. ICS educational module: Cystometry in children. *Neurourol Urodyn.* 2018 ;37(8):2306-2310.
2. ICS educational module: Pressure flow study in children. *Neurourol Urodyn.* 2018 37(8):2311-2314.
3. EAU/ESPU guidelines on the management of neurogenic bladder in children and adolescent part I diagnostics and conservative treatment. *Neurourol Urodyn.* 2019 Nov 13. doi: 10.1002/nau.24211. [Epub ahead of print] Review.
4. Transcutaneous Electrical Nerve Stimulation Combined with Oxybutynin is Superior to Monotherapy in Children with Urge Incontinence: A Randomized, Placebo Controlled Study. *J Urol.* 2017;198(2):430-435.
5. Surgical Management of Neurogenic Sphincter Incompetence in Children. *Front Pediatr.* 2019 Mar 26; 7:97
6. Pediatric incontinence (Evaluation and clinical management) Neurogenic bladder and bowel dysfunction[J]. 10.1002/9781118814789:253-255.
7. International Children's Continence Society. *Neurourol Urodyn.* 2012 Jun;31(5):615-20. doi: 10.1002/nau.22248. Epub 2012 Apr 24. PMID: 22532368 Israel Franco, MD, FAAP, FACS 22
8. International Children's Continence Society's Recommendations For Initial Diagnostic Evaluation And Follow-Up In Congenital Neuropathic Bladder And Bowel Dysfunction In Children.. *Neurourol Urodyn.* 2012 Jun;31(5):610-4. doi: 10.1002/nau.22247.