

Start	End	Topic	Speakers
13:30	13:35	Introduction	Desiree Vrijens
13:35	13:50	SUI and neurogenic bladder	Desiree Vrijens
13:50	14:05	Neuromodulation and neurourology	Martijn Smits
14:05	14:20	UTI management in patient with NLUTD	Sanjay Sinha
14:20	14:35	Sexual dysfunction and fertility problems in patients with neurological problems	Charalampos Konstantinidis
14:35	14:55	Case based discussion	Desiree Vrijens Charalampos Konstantinidis Martijn Smits Sanjay Sinha
14:55	15:00	Summary and evaluation	Desiree Vrijens

Description

Neurourology is an evolving field and healthcare providers quite often find the management of bladder dysfunction in this condition challenging. The problems patients encounter are often multifactorial and involve bladder and sexual function as well as fertility issues. The treatment principles for patient with neurological disease can be different than in a population without neurological deficits. This workshop by the Neurourology promotion committee provides an update of management principles in this patient population. The work up and treatment of stress urinary incontinence is discussed. The importance of bladder pressure and kidney function in relation to treatment of stress incontinence is presented. The most recent literature about different treatment modalities, such as slings and artificial sphincter prostheses is presented. In addition the aetiology and management of (recurrent) urinary tract infection is addressed, with an update on latest developments. Non antibiotic management is also discussed, which is in the light of increasing worldwide antibiotic resistance of utmost interest.

The use of neuromodulation in patients with neurological lower urinary tract dysfunction is presented. Different modalities of neuromodulation such tibial stimulation and sacral neuromodulation are discussed, with emphasis on latest developments. Patients with a neurological abnormality can not only encounter problems with bladder function, they can also present to the healthcare professional with sexual dysfunction and fertility issues. A brief presentation about the aetiology of sexual dysfunction and fertility problems is followed by practical tips of treatment. Possible problems encountered during pregnancy in females with different neurological abnormalities as well as male erectile and ejaculatory dysfunctions are discussed. The reasons for impaired sperm quality, such as hormonal disbalance and altered Leydig and Sertoli cells are explained as well as different treatment options. The workshop is interactive with possibility to ask questions after the presentations and the it is concluded with case based discussions were all treatment principles, including management to preserve kidney and bladder function, are summarised.

Participants will be able to have a clear understanding of management principles of incontinence, urinary tract infections, sexual dysfunction and fertility issues. The differences with treatment of patients without neurological abnormalities will be discussed, so the importance of preserving kidney function for example is emphasised.

The key learning points are:

- Have updated knowledge about treatment options of stress urinary incontinence based on the recent literature.
- Know about different forms of neuromodulation, percutaneous tibial stimulation, sacral neuromodulation and it's use in neurological patients.
- Learn the etiology of (recurrent) urinary tract infection in patients with neurogenic lower urinary tract dysfunction and the different treatment modalities.
- Learn the etiology of sexual dysfunctions and fertility issues and obtain basic knowledge of treatment principles.

Take home message is that evaluation and treatment of patients with neurogenic bladder is multifactorial.

Additional references:

1. Chapter on Neurourology in 6th ICI Consultation, <https://www.ics.org/education/icspublications/icibooks>

2. EAU guidelines on Neurourology, <https://uroweb.org/guidelines/neuro-urology>
3. Assessment of patients with lower urinary tract symptoms where an undiagnosed neurological disease is suspected:
4. A report from an International Continence Society consensus working group, ICS standards 2022. Roy et al.

Aims of Workshop

Neurourology is still an evolving field and healthcare givers often find it challenging to tackle the multifactorial issues faced by people with a neurological abnormality. This workshop will try to simplify some of the management principles involved in the treatment of neurogenic bladder with emphasis on the latest techniques. The aim would be for the participants to establish a clear thought process for managing this complex group of patients with confidence. Stress urinary incontinence, urinary tract infection and the use of neuromodulation in this patient population is discussed. In addition an update is given about infertility and sexual dysfunction. This would be aided by a case based discussion at the end.

Educational Objectives

Neurourology is an evolving field and healthcare providers quite often find the management of bladder dysfunction in this condition challenging.

This workshop by the Neurourology promotion committee will update the participants on the management principles of neurogenic bladder. The focus will be to elaborate on the updates of management for incontinence both stress and urge related conditions. In addition the management of urinary tract infections will be discussed. It will also deal with infertility and sexual function principles

The participants will engage with Q&A at the end of the lectures and interact during Case based discussion.

The workshop will deal with the above conditions and then the case based discussion will summarise the management principles.

The participants will be able to have a clear understanding of incorporating the discussed principles in clinical practice.

Learning Objectives

1. Understand the management principles of stress urinary continence and urinary tract dysfunction in patients with neurogenic bladder
2. Obtain updated knowledge of the use of neuromodulation in patients with neurogenic bladder
3. Understand about fertility problems and sexual dysfunction.

Target Audience

Urology, Urogynaecology and Female & Functional Urology

Advanced/Basic

Intermediate

Suggested Learning before Workshop Attendance

Chapter on Neurourology in 7th ICI Consultation
EAU guidelines on Neurourology