



INUS

INUS  
ANNUAL  
CONGRESS 2020  
January 23-25th

Istanbul



## The International Neuro-Urology Society (INUS)

The International Neuro-Urology Society (INUS) is a medical and scientific non-profit organisation with the aim to sustainably improve and promote the medical care for patients suffering from neuro-urological disorders.

All researchers and health care professionals who deal with neuro-urological patients or research projects are eligible and welcome to apply for membership. If you are interested in becoming a member of the INUS please visit the society's homepage [www.neuro-uro.org](http://www.neuro-uro.org).

**Those under 36 years of age can register for free**

Companies, institutions, foundations or individuals who are interested in supporting the society can become a partner of the INUS. Please contact us to become a partner.



## We welcome you to join the INUS Annual Congress 2020

On behalf of INUS and the 2020 Scientific Committee, we are pleased to welcome you to Istanbul. We have worked hard to bring you talks from an international, multidisciplinary faculty on key topics and recent advances in neuro-urology such as the role of neuromodulation, the use of urodynamics during the surveillance and the surgical treatment of neurologic conditions, surgical treatment of stress incontinence in neurourology, neurogenic sexual dysfunction, and the state of the art management and prevent of urinary infections with neurologic injury. We will continue the tradition of including interactive discussions with the audience and our faculty throughout the plenary, and we will once again highlight up and coming physicians and researchers who have shown a commitment to neurourology with the international Young Talents Competition. Several additional topics will be presented and discussed in seven workshops, including one specifically designed for nurses. We look forward to another great meeting!

Helmut Madersbacher

Blayne Welk

# COMMITTEE

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Kessler T. M. (CH)



Averbeck M. A. (BR)

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Panicker J. N. (UK)



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 Yoshimura Naoki US

**Overview** Workshops, Meetings and Assembly**INUS Board Meeting: Thursday 8:30****Thursday**

**13.30** **Translational impact of animal models of neurologic diseases with urological symptoms**

**13.30** **Urodynamics**

**13.30** **Neurourology for the general urologist**

**Friday**

**8.00** **Botulinum Toxin: Blessing or Curse?**

**8.00** **Neurosciences**

**8.00** **Gladiators session**

**Membership Assembly: Friday 18:00**  
for members only**Saturday**

**8.00 - 12.00** **Nurse Workshop**

with hands on training - catheterization  
in cooperation with EAUN and the Turkish Association of Urologic Nurses

**Urodynamics** Marcio Averbeck & Enrico Finazzi Agrò

**13.30** Terminology and standards *E. Finazzi Agrò*

**14.00** When and how to perform a urodynamic investigation in SCI and MS patients? *V. Iacovelli*

**14.30** Common pitfalls to avoid during urodynamics *J. Moreno Palacios*

**15.00** Which catheter? Water perfusion vs air-charged vs microtip *L. Leitner*

**15.30** Break

**15.30** Additional value of video-urodynamics in neuro-urology *M. Averbeck*

**15.45** Ambulatory urodynamics: when? why? *D. Vrijens*

**16.00** Hands on training  
(4 stations with computer and urodynamic equipment, 20 minutes on each station) *Panicker, Seabra Rios, Schurch, Fernandes*

- Objectives:**
- Review the terminology and standards for urodynamics
  - Discuss special urodynamic considerations in SCI and MS patients
  - Discuss limitations and advantages of different urodynamic catheters
  - Obtain hands on experience interpreting urodynamic studies

**Target audience:** Clinicians interested in improving their urodynamic practice

## **Translational impact of animal models of neurologic diseases with urological symptoms**

*Naoki Yoshimura, Célia Cruz,  
Karl-Erik Andersson*

<b>13.30</b>	SCI: Clinical aspects SCI: Animal models	<i>T. Kessler A. Sartori</i>
<b>14.00</b>	Discussion	
<b>14.30</b>	Parkinsons: Clinical aspects Parkinsons: Animal models Discussion	<i>J. Panicker N. Yoshimura</i>
<b>15.00</b>	Break	
<b>15.15</b>	MS: Clinical aspects	<i>E. Philippova</i>
<b>15.30</b>	MS: Animal models Discussion	<i>C. Cruz</i>
<b>16.00</b>	Alzheimers: Clinical aspects Alzheimers: Animal models Discussion (15min)	<i>R. Sakakibara K. Andersson</i>

**Objectives:** • Discuss the new developments and advantages/disadvantages of the various animal models for the study of neuro-urological dysfunction after SCI, MS, Parkinson's, and Alzheimer's  
• Discuss the applicability of the results from preclinical experiments to the clinical treatment of patients with SCI, MS, Parkinson's, and Alzheimer's disease

**Target audience:** Scientists and clinicians interested in basic science/translational research

## **Neurourology for the general urologist**

*Cris Gomes, Michael Kennelly*

<b>13.30</b>	Neuropathophysiology of the lower urinary tract	<i>K. Peters</i>
<b>13.50</b>	Diagnostic workup	<i>L. Liao</i>
<b>14.10</b>	Pharmacotherapy in neuro-urology	<i>R. Kirschner-Hermanns</i>
<b>14.50</b>	Electrotherapy in neuro-urology	<i>H. Goldman</i>
<b>15.10</b>	Break	
<b>15.40</b>	Catheterization in neurogenic patients	<i>S. Vahr</i>
<b>16.30</b>	Surgical therapy in neuro-urological patients	<i>G. del Popolo</i>
<b>17.10</b>	Case presentations and discussion	<i>R. Kirschner-Hermanns, G. del Popolo</i>

**Objectives:** • Review the neuroanatomy of the lower urinary tract  
• Review medical therapy for neurourology patients  
• Review surgical therapy for neurourology patients  
• Case based approach to management of common neuro-urological scenarios

**Target audience:** Trainees and urologists interested in an introduction/ review of clinically relevant neuro-urology

## WORKSHOPS Friday

### Neurosciences

*Jalesh Panicker & Ryuji Sakakibara*

- 08.00** Our understanding in 2019 of the neural networks responsible for lower urinary tract control *B.F.M. Blok*
- 08.30** Sexual Dysfunction following Multiple Sclerosis and Stroke *M. Hilz*
- 09.00** Lumbosacral spinal cord imaging and its relevance to neurourology research *E. Liechti*
- 09.30** Can neurophysiology be used to understand the mechanism of action of sacral neuromodulation *S. De Wachter*
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- 10.00** Break
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- 10.30** What's the relationship between psychological co-morbidities and LUTS *D. Vrijens*
- 11.00** Is there a role for pelvic neurophysiology testing in clinical neurourology practice? *J. Panicker*
- 11.30** Challenges in the management of LUTD in neurodegenerative disorders due to synucleinopathies *R. Sakakibara*
- 12.00** Lunch

**Objectives:** Review the relevant advances in the understanding of the neurologic system and its control of urinary function

**Target audience:** Urologists and neurologists with an interest in the neurophysiology or neuroanatomy of bladder storage and voiding

## Friday WORKSHOPS

### Gladiators session

*Howard Goldman & Blayne Welk*

- 08.00** Coated vs uncoated catheters for CIC *M. Aeverbeck vs J. Moreno*
- 08.30** Natural supplements should be used for the prevention of UTIs in neurourology *M. Mehrad vs S. Musco*
- 09.00** Regular bladder irrigation should be part of the routine care in neuro-urology patients with indwelling catheters *L. Leitner vs J. Wyndaele*
- 09.30** Aggressive treatment of upper tract stone disease vs conservative management *E. Braschi vs*
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- 10.00** Break
- 
- 10.30** Which channel is best for the bladder? Tunnelled (appendix, Monti) vs nipple valve *K. Sievert vs M. Kennelley*
- 11.00** Bladder neck reconstruction: valuable treatment or waste of resources? *C. Gomes vs T. Purves*
- 11.30** Chronic suppressive antibiotics still play a role in neurourology *A. Cameron vs G. Krivoborodov*
- 12.00** Lunch

**Objectives:** Discuss controversies in the clinical management of common neurourology scenarios

**Target audience:** Clinicians with an interest in the management of neuro-urology patients

## **Botulinum Toxin: Blessing or Curse?** Thomas Kessler & Ulrich Mehnert

<b>08.00</b>	Botulinum toxin in neurology: <i>From poison to medicine</i>	<i>D. Vodusek</i>
<b>08.20</b>	Botulinum toxin in urology: <i>The inventor's perspective</i>	<i>B. Schurch</i>
<b>08.40</b>	Specific equipment, preparation, position, injection	<i>R. Hamid</i>
<b>09.00</b>	Interactive discussion of complex cases	<i>All participants</i>
<b>10.00</b>	Break	
<b>10.30</b>	Optimizing botulinum toxin therapy for spasticity & bladder problems in the same patient	<i>K. Önem</i>
<b>10.50</b>	Interactive discussion of complex cases	<i>All participants</i>
<b>11.20</b>	Botulinum toxin in pediatric urology	<i>S. Hajjibrahimi</i>
<b>11.40</b>	Future indications and application routes	<i>U. Mehnert</i>
<b>12.00</b>	Lunch	

**Objectives:**

- Understand the history behind the development of botulinum toxin for medical use and its beginning as a bladder therapy
- Review how to properly administer intravesical botulinum toxin
- Interactively discuss the management of complex cases using botulinum toxin

**Target audience:** Urologists looking to improve their usage of botulinum toxin especially optimizing the management of complex cases in daily practice

**Nurse Workshop** in cooperation with EAUN and the Turkish Association of Urologic Nurses  
This workshop will also be translated to Turkish

### **Session 1:** Chairpersons : S. Vahr and K. Önem

<b>08.00 - 8.30</b>	Neuro-physiology and neuro-pathophysiology of the lower urinary tract	<i>H. Madersbacher</i>
<b>08.30 - 9.00</b>	Diagnostic workup for neurogenic lower urinary tract dysfunction / discussion	<i>K. Önem</i>
<b>09.15 - 09.45</b>	Intermittent catheterization – the EAUN guidelines	<i>S. Vahr</i>
<b>09.45 - 10.00</b>	How to promote adherence to catheterization - new designs help?	<i>S. Vahr</i>

**10.00 - 10.30** Break

### **Session 2:** Chairpersons : M. Yavuz Van Giesbergen, R. Wirawan and H. Madersbacher

<b>10.30 - 11.10</b>	Hands on training - intermittent catheterization	<i>Chairpersons and Lecturers</i>
<b>11.10 - 11.45</b>	Urodynamic studies – tips and tricks for nurses	<i>D. Mair</i>
<b>11.45 - 12.00</b>	Botulinumtoxin injections - preparation and injections: nurse perspective	<i>J. Baldwin</i>

**Objectives:**

- Information on lower urinary tract function and neurogenic dysfunction
- Assessment of neurogenic lower urinary tract dysfunction
- How to do intermittent catheterization including hands-on training
- The role of the nurse in urodynamic studies and botulinum injections

## Friday Overview Scientific Program

13.00	<b>Opening Remarks</b>	H. Madersbacher & B. Welk
13.10	<b>Keynote Presentation:</b> The future development for improvement of clinical practice in neurourology	<b>B.F.M. Blok</b>
13.30	<b>Debate/cases/discussion:</b> Timing and necessity of urodynamics in the management of neuro-urological patients	
14.15	<b>Presentation/discussion:</b> Neuromodulation for the neurological patient	
14.45	<b>Presentation/discussion:</b> Diagnostic and therapeutic option for the underactive bladder	
15.15	<b>Case presentation/discussion:</b> Treatment of stress incontinence in patients with neurologic disease	
16.00	<b>Debate/discussion:</b> Urethral stricture in the neurological patient using IC	
16.20	<b>Presentation: PACS Lecture:</b> Fistula treatment in neuro-urology: Early management to definitive reconstruction	<b>S. Mourad</b>
16.45	Refreshment & Social at Poster sessions, with moderators leading a walkabout	

## Saturday Overview Scientific Program

08.00	<b>Presentation: EAN Lecture:</b> Neurogenic sexual dysfunction <b>TAU Lecture:</b> Neurogenic sexual dysfunction	<b>M. Hiltz</b> <b>A. Kadioglu</b>
09.00	<b>Presentation &amp; discussion:</b> Urinary tract infections, neurogenic detrusor overactivity and reflux: their impact on the urinary tract	
10.15	<b>Young Talents competition</b>	
13.15	<b>Presentation:</b> Unusual neurological disorders for the urologist	
13.30	<b>BJUI lecture:</b> 25 years of translational research in OAB and neurogenic detrusor overactivity	
13.45	<b>Presentation &amp; discussion:</b> Obesity in neurourology: prevention and management during reconstructive surgery	
14.15	<b>Presentation &amp; discussion:</b> From lab to patient	
15.30	<b>Debate &amp; discussion:</b> Antimuscarinics versus beta-3 agonist?	
15.45	<b>Presentation: SBU Lecture:</b> Management of LUTS in patients with dementia	<b>J. Ailton Fernandes Silva</b>
16.00	<b>Presentation: IUA Lecture:</b> Voiding dysfunction changes with age	<b>A. Basiri</b>
16.20	<b>Presentation: ICS Lecture:</b> ICS consensus on LUTS presentations which could be early indicators of neurological disease	<b>M. Drake</b>
16.40	<b>Presentation:</b> The role of physiotherapy in the management of neurogenic LUT dysfunction	
16.55	<b>Presentation &amp; discussion:</b> Urinary infections after neurologic disease in 2020: challenges and solutions	
17.25	<b>Presentation: ICS Lecture:</b> Intermittent catheterization and UTI: what's new?	<b>G. del Popolo</b>



**Friday Program in Depth**

<b>12.00</b>	Lunch	
<b>13.00</b>	<b>Opening Remarks</b>	<i>H. Madersbacher &amp; B. Welk</i>
<b>13.10</b>	<b>Keynote Presentation:</b> <b>The future developments for improvement of clinical practice in neurourology</b>	<b>B.F.M. Blok</b>
	Moderator: Helmut Madersbacher	
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<b>13.30</b>	<b>Debate/cases/discussion:</b> Timing and necessity of urodynamics in the management of neuro-urological patients	
	Moderator: Thomas Kessler	
	Part 1: Debate: Regular UDS save kidneys and lives On demand UDS are more appropriate	<i>E. Finazzi Agro</i> <i>M. Averbeck</i>
	Part 2: Case 1: Outlet procedures Case 2: High grade VUR in a poorly compliant bladder Case 3: Channel revision	<i>J. Lavelle</i> <i>E. Philippova</i> <i>S. Musco</i>

<b>14.15</b>	<b>Presentation/discussion:</b> Neuromodulation for the neurological patient	
	Moderator: Howard Goldman	
	Where we started and where we are going Can we change disease progression? Is there a role in children?	<i>K. Peters</i> <i>S. De Wachter</i> <i>F. Sharifiaghdas</i>
<hr/>		
<b>14.45</b>	<b>Presentation/discussion:</b> Diagnostic and therapeutic options for the underactive bladder	
	Moderator: Athanassios Oeconomou	
	Is underactive bladder a myogenic or neurogenic condition? Diagnosis Therapy	<i>G. Van Koeveringe</i> <i>N. Katz</i> <i>E. Kocjancic</i>
<hr/>		
<b>15:15</b>	<b>Case presentation &amp; discussion:</b> Treatment of stress incontinence in patients with neurologic disease	
	Moderator: Helmut Madersbacher	
	Pathophysiology Female SCI Case & discussion Male SCI Case & discussion Spina bifida case & discussion	<i>R. Al Mousa</i> <i>L. Seabra Rios</i> <i>C. Gomes</i> <i>S. Hajibrahimi</i>

**Friday Programme in Depth**

**16.00** **Debate & discussion: Urethral strictures in the neurological patient using IC**  
 Moderator: Alejandro Aparicio  
 Conservative management is best J. Moreno-Palacios  
 Operative management is best R. Gomez

**16.20** **Presentation: PACS Lecture: Fistula treatment in neuro-urology: Early management to definitive reconstruction** **S. Mourad**

**16.45** *Refreshments & Social at Poster sessions, with moderators leading a walkabout*  
 Moderators Clinical: TBA  
 Moderators Basic Science: TBA

**Saturday Program in Depth**

**08.00** **Debate/cases/discussion:**  
 Neurogenic Sexual Dysfunction in Multiple Sclerosis and after Stroke  
 Moderators: Charalampos Konstantinidis & Mehri Mehrad  
**EAN Lecture – Neuroanatomic correlates** **M. Hilz**  
**TAU Lecture – Management in men** **A. Kadioglu**  
 Management in women R. Kirschner-Hermanns

**09.00** **Presentation & discussion:**  
 Urinary tract infections, NDO, and reflux: their impact on the urinary tract  
 Moderator: Kadir Önem  
 Urinary tract infections A. Cameron  
 Neurogenic detrusor overactivity J. Castano  
 Vesico-uretero-renal reflux T. Purves

**09.45** **Break**

**10.15** **Young Talents competition**  
 Moderator: Ulrich Mehnert

**12.15** **Lunch**

**13.15** **Presentation: Unusual neurological disorders for the urologist** J. Panicker

**Saturday Program in Depth**

<b>13.30</b>	<b>BJUI lecture: 25 years of translational research in OAB and neurogenic detrusor overactivity</b>	<b>P. Dasgupta</b>
<b>13.45</b>	<b>Presentation &amp; discussion:</b> Obesity in neurourology: prevention and management during reconstructive surgery Moderator: KD Sievert	
	Management and prevention with SCI	A. Krassioukov
	Surgical challenges with the obese neurologic patient	L. Liao
	Case presentation	G. Krivoborodov
<b>14.15</b>	<b>Presentation &amp; discussion: From lab to patient</b> Moderators: Naoki Yoshimura, Ryuji Sakakibara	
	Novel therapeutic approaches to improve bladder function and morphology	L. Birder
	Update on cellular signaling in neurogenic detrusor overactivity	C. Cruz
	Understanding alternative botulinum toxins	B. Schurch
	Update on the pathophysiology of nocturia in neuro-urology	K. Everaert
	Fowler's syndrome and dysfunctional voiding: Is it a learnable process at pontine center?	D. Vrijens
<b>15.00</b>	<b>Break</b>	

<b>15.30</b>	<b>Debate &amp; discussion:</b> Antimuscarinics versus beta-3 agonist? Counterpart discussion Moderator: Giulio del Popolo	K. Andersson and B. Welk
<b>15.45</b>	<b>Presentation: SBU Lecture: Management of LUTS in patients with dementia</b> Moderator: Gustavo Garrido	<b>J. Fernandes Silva</b>
<b>16.00</b>	<b>Presentation: IUA Lecture: Voiding dysfunction changes with age</b>	<b>A. Basiri</b>
<b>16.20</b>	<b>Presentation: ICS Lecture: ICS consensus on LUTS presentations which could be early indicators of neurological disease</b>	<b>M. Drake</b>
<b>16.40</b>	<b>Presentation:</b> The role of physiotherapy in the management of neurogenic LUT dysfunction	N. Carciangiu
<b>16.55</b>	<b>Presentation &amp; discussion:</b> Urinary infections after neurologic disease in 2020: challenges and solutions Moderator: Lorenz Leitner	
	The burden of the UTIs in neurologic disease	E. Braschi
	Understanding the pathogenesis	M. Kennelly
	Can we even define them?	J. Wyndaele
<b>17.25</b>	<b>Presentation: ICS Lecture: Intermittent catheterization and UTI: what's new?</b>	<b>G. Popolo</b>
<b>17.40</b>	<b>End</b>	