

38th Congress of the Société Internationale d'Urologie Seoul Dragon City

### October 4-7, 2018

Featuring SIU-ICUD Joint Consultation on Congenital Lifelong Urology 4th SIU Global Nurses' Educational Symposium



## ABSTRACT BOOK SIU 2018 SEOUL, SOUTH KOREA



# ABSTRACT BOOK

## SIU 2018 SEOUL, SOUTH KOREA

## MODERATED ePOSTERS

Korean Urological Association Moderated ePosters Session		
Various Topics	1	S
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Moderated ePosters Session 1		K
Outstanding Abstracts	01	S
Friday, October 5, 1130–1300	31	N
Moderated ePosters Session 2		F
Basic Science	00	S
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BPO/LUTS	10	S
Friday, October 5, 1415–1545	40	N
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Stones		S
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Prostate Cancer: Basic Science	00	S
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#### MODERATED ePOSTERS



**MP-11.06**, Table 1. Multivariate Logistic Regression Analysis to Identify Association with IBS In Women

	AOR*	95% CI
OAB dry	2.1	1.11 -4.12
Moderate to severe LUTS	2.6	1.39 - 5.19
*Adjusted by age, anxiety and history of vaginal delivery.		

vere LUTS were independently associated with IBS (Table 1).

**Conclusion:** LUTS/OAB are frequent in Colombian women; and IBS seems to be a significant co-morbid condition to these. Thus, IBS should be suspected and assessed in female patients presenting to the urologist's office. An association between LUTS/OAB and IBS was not detected in men.

#### MP-11.07

#### Publically Funded Overactive Bladder Drug Treatment Patterns in Ontario over Fifteen Years: An Ecologic Study

#### Elterman D

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**Introduction and Objective:** Medication is an important option for patients with overactive bladder (OAB), with four different drugs approved over the last 10 years including the first non-anticholinergic treatment, mirabegron. We set out to describe the number and rate of users of medication for the management of OAB over the last 15 years among residents of Ontario, Canada covered by the public drug programs.

**Materials and Methods**: We conducted a population-based, repeated cross-sectional study examining quarterly publically-funded prescription claims for OAB medications from January 2000 to June 2016 in Ontario, Canada.

**Results**: We report two major changes in prescription patterns for OAB. The first was the rise of newer, more selective anticholinergics (tolterodine, solifenacin, and darifenacin) replacing oxybutynin. This led to a 54.8% reduction in the rate of users of oxybutynin over the study period from 10.4 users/1,000 beneficiaries in 2000 to 4.7 users/1,000 beneficiaries in 2016. Recently we saw the emergence of mirabegron as the most commonly prescribed treatment for OAB. By the final quarter of the observation period mirabegron was the most commonly used OAB treatment with 25.0% (n=19,411) of all OAB medication users in Ontario (n=77,660).

**Conclusion**: Our findings highlight the rapid uptake of novel agents and a major shift in the treatment of OAB over the last 3 years.

#### MP-11.08

#### Morphological Assessment of the Nitric Oxide Synthase Distribution in a New Rat Model of Overactive Bladder

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<sup>1</sup>Odessa National Medical University, Odessa, Ukraine; <sup>2</sup>Vinnytsia National Pirogov Memorial Medical University, Vinnytsia, Ukraine; <sup>3</sup>State Institution A. A. Shalimov National Institute of Surgery and Transplantology, Shalimov, Ukraine

**Introduction and Objective**: The role of the different isoforms of nitric oxide synthase (NOS) during overactive bladder (OAB) development is highly complex, and incompletely understood. The purpose of this research is to study the distribution of NO-synthase isoforms in normal bladder and bladders after injection of Homviotensin and their possible involvement in the pathogenesis of OAB.

**Materials and Methods:** The experiments were performed on female rats following 0.45 mg/kg of reserpine (Homviotensin) treatment within two weeks for OAB modeling. Full-thickness bladder specimens were obtained from 60 rats with OAB and 10 controls. Immunohistochemistry was performed with a polyclonal antibody for endothelial (eNOS), neuronal (nNOS) and inducible (iNOS) nitric oxide synthase (Thermo Fisher Scientific) and staining intensity was assessed semiquantitatively on coded material by light microscopy. The results were expressed as the mean  $\pm$ the standard error of mean. Differences were considered significant at p<0.05.

**Results:** In a control line rats the expression of iNOS was absent. In the group with OAB we revealed a significant increase in iNOS (more than 60 % of positively stained cells) expression compared with that in healthy rats. The distribution of iNOS was detected predominantly around smooth muscle cells (SMCs) of the middle and outer muscular layers of OAB and at the same time with severe cytoplasm vacuolization and focal hypertrophy of the SMCs. The expression of eNOS was moderate (30-60% of positively stained) in endothelial cells of vessels in normal bladder but in rats after Homviotensin injection the eNOS level substantially decreases. The same results were obtained with nNOS expression in the nitrigic neurons of the muscular layer with degenerative changes of neurons.

**Conclusion:** Based on our research data we can propose two mechanisms of OAB development that may be coexist with each other, the first is involving of iNOS in neuronal death and degenerative changes of smooth muscles as a result of reactive nitrogen species hyperproduction such as peroxynitrite and the second is an ischemic injury of a bladder wall due to decrease of eNOS. These findings may open the opportunity for therapy in the treatment of OAB.

#### MP-11.09

#### The Distribution of Different Collagen Types in a Rat Model of Overactive Bladder Before and After Treatment

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**Introduction and Objective**: Overactive bladder (OAB) is a common urological clinical problem, which mainly results from changes in collagen types I and III within the detrusor were responsible for