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Shi W¹

1. Department of Urology, China Rehabilitation Research Center, School of Rehabilitation Medicine, Capital Medical University, Beijing 100068; China

CORRELATION OF URODYNAMIC CHANGES AND NOCTURNAL ELECTROBIOIMPEDANCE VOLUMETRIC ASSESSMENT(NEVA) IN THE PATIENTS WITH NEUROGENIC BLADDER.

Hypothesis / aims of study

Urodynamic change or erectile dysfunction(ED) is a common problem for the patients with neurogenic bladder, but the relationship of both is unknown. The aim of this study is to evaluate the relationship between the urodynamic changes and NEVA in the patients with neurogenic bladder.

Study design, materials and methods

The total 50 male patients suffered from spinal cord injury (SCI) or tethered cord or cerebrovascular accident were examined by urodynamic .. a cording to the results ,patients received was divided into two group as follow:

group 1(detrusor hyporeflexia group,n =17):Detrusor underactivity (DU) is defined by the International Continence Society as a contraction of reduced strength and/or duration resulting in prolonged or incomplete emptying of the bladder,

group 2(detrusor hyperreflexive group,n =17):Detrusor overactivity (DO): hyperreflexive detrusor and same with a hyperreflexive (spastic) sphincter, characteristic for the reflex- and the uninhibited neuropathic bladder, detrusor sphincter dyssynergia (DSD)

nocturnal electrobioimpedance volumetric assessment(NEVA) had been done in the three nights as objective parameters The results of NEVA was analyzed .

Results

group 1: (17 cases: NEVA Overall 47 nights) number and duration of erectile events = 7

group 2: (17 cases : NEVA Overall 48 nights) number and duration of erectile events =43

total scores were significantly higher in group 2. both were significantly decreased than the normal Standards.

Interpretation of results

because micturition and erectile primary centre that exit the sacral segment (S2 ~ S4)in the same level of spinal cord , The central of micturition ,urinary continence and erectile function in humans is organized in similar manner , Urodynamic and NEVA index involves in injuring different level and degree of the spinal cord or cerebral never system.

Concluding message

Our findings suggest a positive correlation between urodynamic changes and NEVA .

Urodynamic technique can plays an important role in diagnosis of neurogenic erectile dysfunction and NEVA are helpful for considerable urodynamic patterns in clinical practice.

nocturnal electrobioimpedance volumetric assessment(NEVA) in the patients with neurogenic bladder alone seems to improve never system funding compared to using any medication. Further evaluate should be studied.

Disclosures

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