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WHAT IS THE CUT-OFF VALUE OF PRESSURE OF OVERACTIVE DETRUSOR FOR OVERACTIVE DETRUSOR INCONTINENCE?

Hypothesis / aims of study

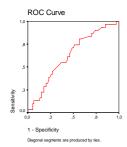
The aim of this study to determine the cut-off value of overactive detrusor's pressure for overactive detrusor incontinence.

Study design, materials and methods

After urodynamic study, 105 men (median age 52, range 22-86 years) with overactive detrusor were divided into groups according to patients complaint: group1 (n=55): overactive detrusor with urge incontinence, group2 (n=50): overactive detrusor with LUTS (no incontinence). Urinary infection, urological cancers or neurological disease were excluded from the study. The cut-off value was determined in 105 men by ROC curve. Each group was divided two subgroups related to below or over the cut-off value (cut-off value was taken 40cmH2O). Crosstabulation was done in SPSS statistical program between over or below the cut-off value and urodynamically detrusor leak point pressure (DLPP). Sensitivity and positive predictive value (PPV) were calculated according to crosstabs based on formulas (sensitivity: true positive/true positive + false positive).

Results

In total men: Sensitivity and PPV were 71 % and 59 %, respectively. **Group 1:** Sensitivity and PPV were 65.2 % and 55 %, respectively. **Group 2**: Sensitivity and PPV were 87.5 % and 65 %, respectively.



total number of men

total number of men				
OAD		DLPP (%)		
(cmH20)		-	+	
40↓	(-)	51.4	29	
40 or ↑	(+)	48.6	71	

Group1

OAD	DLPP (%)	
(cmH20)	-	+
40↓ (-)	46.9	34.8
40 or ↑ (+)	53.1	65.2

Group 2

OAD	DLPP (%)	
(cmH20)	-	+
40↓ (-)	54.8	12.5
40 or ↑ (+)	45.2	87.5

Interpretation of results

In according to our data, while the cut-of value was 40cmH20 or over 40cmH20 for overactive detrusor's pressure, sensitivity and PPV were higher in group 2 than group 1.

Concluding message

If the patients suffer from LUTS without urge incontinence, overactive detrusor pressure correlates very well with DLPP during urodynamic study. On the other hand, overactive detrusor pressure less correlates with DLPP in patients who have urge incontinence.

So, urge incontinence may not only related to overactive detrusor pressure but also it may related to another factors, which needs further studies to make it clear.

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HUMAN SUBJECTS: This study did not need ethical approval because it is retrospective study but followed the Declaration of Helsinki Informed consent was obtained from the patients.