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STRESS URINARY INCONTINENCE: OBJECTIVE GRADING OF SEVERITY

Hypothesis / aims of study

To assess the difference between patients suffers from severe stress urinary incontinence and mild stress urinary incontinence on objective basis. In addition, to detect the risk factors attributed in severity.

Study design, materials and methods

118 patients suffered from pure SUI were enrolled in a prospective study. According to VLPP with cutoff value 60 cm H₂O, patients were categorized into 2 groups. Risk factors included age, parity, gravidity, menopausal statues, co-morbidities and surgical history were investigated. Minimal sample size of 118 patients was estimated to get power level of 0.8, alpha level: 0.05 anticipated Effect size (f²) of 0.15, provided that number of predictors were 10.

Results

Of 35 patients who had severe SUI, mean VLPP±SD was 47±8 cm H₂O, while in 83 patients with mild SUI, it was 90±20 cm H₂O. No significant difference was detected between both groups with regard to clinical parameters and risk factors(table-1). Patients with younger age and regular menstrual cycle had more severe type. Patients with multiple deliveries have triple risk to develop severe SUI. Obese patients with BMI >30 and those with bronchial asthma are more prone to develop sever type (RR: 1.9, 95%CI: .07-5 and RR: 9, 95% CI: 0.7-25 respectively).

Interpretation of results

Parity, obesity and bronchial asthma may lead to lowering of VLPP.

Concluding message

Severe SUI is a resultant of multi-factors rather than one risk factor.

Table 1: Estimated risk for development of severe SUI:

	RR	CI	P value	Number of severe group (%)
Age > 50 years	0.6	0.14-2.3	0.4	5/28(17)
No of pregnancies≥3	2.3	0.6-8	0.5	20/76(26)
No of deliveries≥ 3	3	0.9-11	0.2	17/63(27)
BMI ≥ 30	1.9	0.7-5	0.2	24/71(34)
Menopause	0.7	0.3-1.3	0.8	10/44(23)
Presence of POP	1.7	0.7-4.4	0.2	3/11(27)
Hysterectomy	2.1	0.6-7.6	0.3	5/12(41)
Anti incontinence	1.2	0.3-5	0.8	3/11(27)
DM	1.7	0.3- 8.6	0.5	3/8(37.5)
Bronchial asthma	9.4	0.7-25	0.09	¾(75)

Specify source of funding or grant	Non
Is this a clinical trial?	Yes
Is this study registered in a public clinical trials registry?	No
Is this a Randomised Controlled Trial (RCT)?	No
What were the subjects in the study?	HUMAN
Was this study approved by an ethics committee?	Yes
Specify Name of Ethics Committee	Local ethics committee, Mansoura University, Urology and Nephrology Center
Was the Declaration of Helsinki followed?	Yes
Was informed consent obtained from the patients?	Yes