International Continence Society August 22-26, 1999

··· _ ·-

29th Annual Meeting

Denver, Colorado USA

Category No: 5 or 8

Ref. No. 398

Abstract Reproduction Form B-1

~	• • • •			Dankerna her fi	
tiue,	hor(s):	RWM Tai, J Schulz, HP	Drutz		1
		······································	Double Spacing		-
insti City Cou		Urogynecology Unit, Mc Canada	unt Sinai Hospital, University of To	ronto, Toronto, Ontario,	
			Double Spacing		
CAP	e (type in PITAL TERS)	STRESS URINARY IN	CONTINENCE AND ITS DIAGNO	STIC TESTS	
Aim: of		al Continence Society o	lefines stress urinary incontinenc	e (SUII) as a symptom a	sign and a condition (1)
that occ	ss from curs whe es the c	the urethra immediately in intravesical pressure	t of involuntary loss of urine with upon increasing abdominal press exceeds maximal urethral press ugh test, urethrocystoscopic funr of SUI.	sure. The condition is thure in the absence of de	e involuntary loss of urine trusor activity. This study
measure The pat was cor (funnel) grouped control o UTI's ar these, 6	spective ement a tient's sy rrelated , and pr d into th or disea nd ureth 66 had	It Mount Sinai Hospital Imptom of involuntary us with the signs of positive esence of negative pre- ose with symptoms of se negative group inclu- ral polyps). At present multi-channel urodynar	ical examination, urethrocystosod urogynecology unit from July to urine loss associated with physic ve cough test (cough) during phy ssure transmission on dynamic n SUI only and those with SUI as ided those who underwent tests , 145 patients records with ureth nics. Since latent SUI can be s of urinary incontinence were ex	December 1998 inclusion al activities and/or incre- vsical exam, positive ura- nulti-channel UPP (Neg- nd urge incontinence (no for other indications (urg- rocystoscopic exams have found in patients with p	vely is currently on-going. ased abdominal pressure ethrocystoscopic funneling UPP). The patients were nixed incontinence). The ge incontinence, recurrent ave been reviewed and of prolapse alone, the eight
<u>Results</u> Table		elations of symptom v	with cough and funnel tests (n=	: 137)	
		Symptoms of SUL (19)	Symptoms of Mixed Incontinence (84	Urge &) Others (33)	
	Cough	+ 10	57	4	
	Test	- 9	27	29	
			70	40	
	Funnel Test	+ 17 - 2	76 8	10 23	
	1621	- 2	0	20	
Table	-2 Cor	relation of symptom w	rith neg UPP (n= 66)		
		Symptoms of SUI (10)	Symptoms of Mixed Incontinence (42	Urge &) Others (14)	
	Neg UPP	+ 5 - 5	32 10	4 10	
1					

Type your text within this frame. If 2nd page is needed use Abstract Reproduction Form B-2.

Abstract Reproduction Form B-2

Author(s):

RWM Tai, J Schulz, HP Drutz

Table-3 Diagnostic Values of Tests in patients with genuine SUI

	Cough	Funnel	Negative UPP
Sensitivity (%)	53	89	50
Specificity (%)	88	70	71
Positive Predictive Value (%)	71	63	55
Negative Predictve Value (%)	76	95	66

Table-4 Diagnostic Values of Tests in patients with mixed Urinary Incontinence

	Cough	Funnel	Negative UPP
Sensitivity (%)	88	89	76
Specificity (%)	68	70	71
Positive Predictive Value (%)	93	88	89
Negative Predictive Value (%)	52	74	50

<u>Convlusions</u>

The diagnostic tests performed differently between those with genuine SUI and those with mixed symptoms. There was no diagnostic test that yielded high specificity and sensitivity in our population. As an initial test, the cough test was poor at ruling out SUI. Diagnosis based on the cough test alone runs the risk of missing SUI. In this setting where a positive diagnosis may lead to surgical treatment, serial testings may be useful since none of the individual tests was highly specific. This testing strategy maximizes specificity and positive predictive value so one is more confident that positive test results represent the disease and the treatment is indicated. Caution is to be used when applying this test strategy since there is an increased risk that SUI will be missed.

References

1. Abrams P, Blaivas JG, Stanton SL, Andersen JT. The standardization of terminology of lower urinary tract function. Scand J Urol Nephrol 1988; 114:5-19.