26067 - Translation and Validation of the International Consultation on Incontinence Questionnaire-Female Lower Urinary Tract Symptoms (ICIQ-FLUTS) into European Portuguese: An Exploratory Analysis

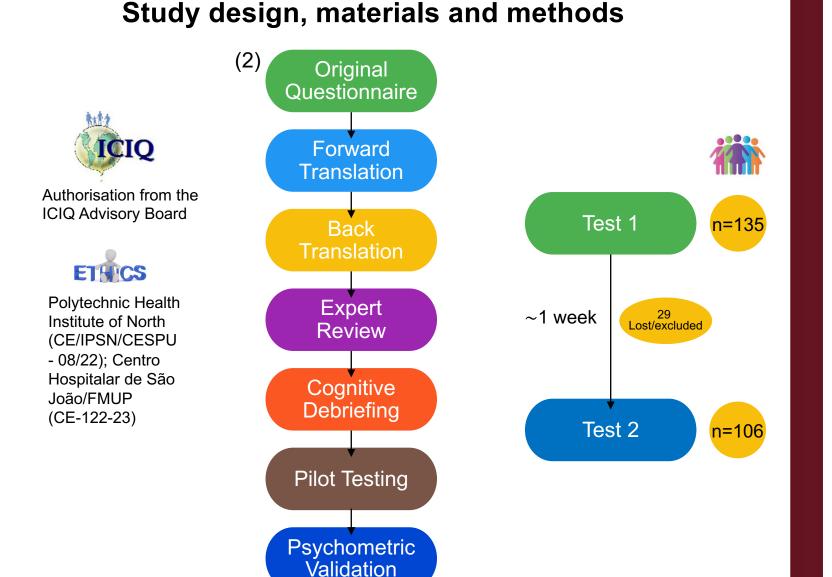


Alice Carvalhais^{1,2}, Carla Peixoto³, Rita Guerra^{1,4}, Margarida Ferreira⁵

¹LAETA, INEGI, Porto, Portugal; ²CESPU-IPSN, Paredes, Portugal; ³Centro Hospitalar Universitário São João, Porto, Portugal; Faculdade de Medicina da Universidade do Porto, Porto, Portugal; ⁴FP-I3ID, FP-BHS, Faculdade de Ciências da Saúde, Universidade Fernando Pessoa, Porto, Portugal; ⁵Physical and Rehabilitation Medicine Department, Unidade Local de Saúde do Alto Ave, Guimarães, Portugal

Hypothesis / aims of study

The ICIQ-FLUTS questionnaire is a validated tool to evaluate female lower urinary tract symptoms (LUTS) and impact on quality of life (1). It has been validated for several languages which facilitates comparisons between populations and enhances the generalizability of research findings with significant implications for healthcare practices, and research. The aim of this study was to translate and validate the ICIQ-FLUTS questionnaire into European Portuguese language (1).



Results and interpretation

Table 1. Internal consistency analysis of the ICIQ-FLUTS

	ltem	ltem deletion (Cronbach alpha coefficient)	Global Cronbach alpha	ltem	Item deletion (Cronbach alpha coefficient)	Global Cronbach alpha
	2a	0.814		2b	0.883	
	3a	0.807		3 b	0.831	
	4a	0.821		4 b	0.883	
	5a	0.842		5 b	0.883	
	6a	0.836	0.835	6 b	0.831	
	7a	0.838		7 b	0.883	0.877
	8a	0.823		8 b	0.831	0.077
	9a	0.804		9 b	0.884	
	10a	0.810		10b	0.831	
	11a	0.826		11b	0.831	
	12a	0.815		12b	0.884	
	13a	0.825		13b	0.883	

Global Cronbach's alpha exceeded 0.80 for both items a) and b), indicating robust internal consistency. The analysis of each item's impact on internal consistency confirmed these findings (Table 1).

Table 2. Test-retest analysis of the ICIQ-FLUTS domains [median (IQR)] **ICIQ-FLUTS** domains Retest p-value Test

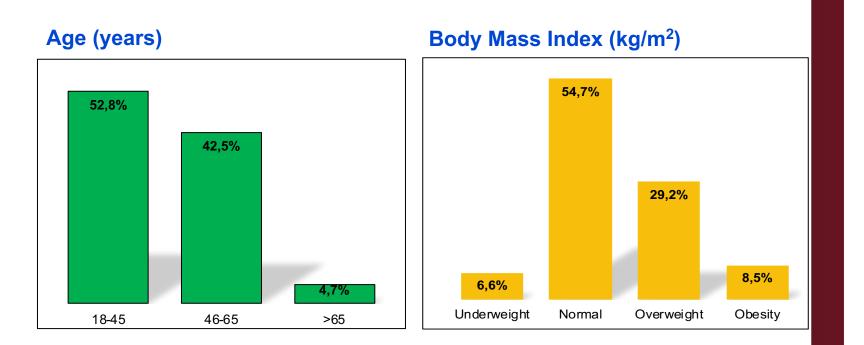
Statistical analysis

Categorical variables - n (%) Continuous variables - mean (sd) or median (IQR) Internal consistency - Cronbach's alpha Test-retest reliability- Spearman correlation coefficient

ICIQ-FLUTS domains



Participants characteristics



Abnormal bladder filling	2 (3)	2 (2)	0.974
Abnormal voiding	1 (3)	1 (2)	0.130
Urinary incontinence	1 (4)	1 (4)	0.616

Test-retest analysis showed no significant differences in scores for filling, voiding, and incontinence domains of the ICIQ-FLUTS (p > 0.05) (Table 2).

Table 3. Test-retest reliability of the ICIQ-FLUTS

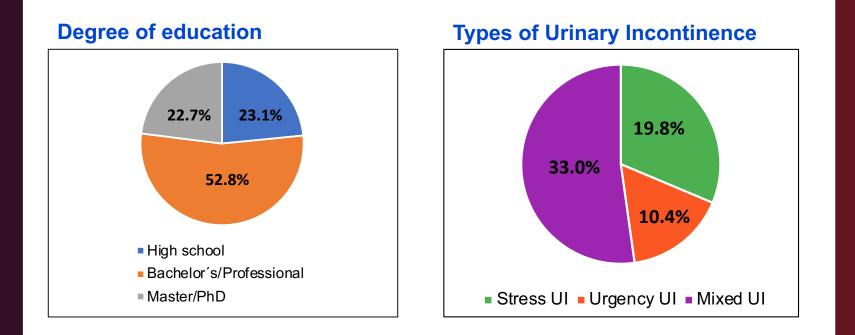
	Spearman					
Item	correlation	р				
	coefficient					
2a	0.868					
3a	0.795					
4a	0.606					
5a	0.715					
6a	0.644					
7a	0.606					
8a	0.591					
9a	0.786					
10a	0.798					
11a	0.789					
12a	0.768					
13a	0.777	<0.001*				
2b	0.914	<0.001*				
3b	0.837					
4b	0.718					
5b	0.710					
6b	0.590					
7b	0.570					
8b	0.572					
9b	0.758					
10b	0.817					
11b	0.840					
12b	0.836					
13b	0.791					
*<0.001 for all items						

In the correlation analysis, results ranged from moderate to good. Within the Incontinence domain, all items achieved values higher than 0.70, while in the Filling domain, all items except one demonstrated similar results. In the Voiding domain, all items achieved values 0.60, indicative around of satisfactory correlations.

0.001 for all items

Concluding message

The Portuguese version of ICIQ-FLUTS has proven to be a valid and reliable tool for evaluating lower urinary tract symptoms in Portuguese women.



Marital Status 64.2% were Married/Partnerships

It facilitates accurate assessment in both clinical and research settings, enabling healthcare providers to make informed decisions and tailor interventions accordingly.

Its implementation will contribute to the scientific foundation of healthcare research, fostering advancements in understanding and management of lower urinary tract symptoms in women.

References

(1) Brookes ST, Donovan JL, Wright M, Jackson S, Abrams P. A scored form of the Bristol female lower urinary tract symptoms questionnaire: data from a randomized controlled trial of surgery for women with stress incontinence. Am J Obstet Gynecol.2004;191:73-82; (2) The International Consultation on Incontinence Modular Questionnaire. Validation protocol. http://www.iciq.net/ validationprotocol.htm.