

VALIDITY AND RELIABILITY IN OVERACTIVE BLADDER SYMPTOM SCORE (OABSS) IN THAI VERSION

Hypothesis / aims of study

To examine the psychometric property of the OABSS in Thai female with overactive bladder.

Study design, materials and methods

Sixty women aged over 18 years, diagnosed with overactive bladder were recruited. They were visited in two sessions at a two-week interval using a self-completion questionnaire of OABSS, which was translated into Thai language by a group of translators, bilingual doctor and native speaker. OABSS Thai dialect preserves original format using seven questions and was screened and approved by the expert urologists and ethical committee

Results

Sixty women aged over 18 years old with overactive bladder were recruited (mean age 56; SD17.8). Content validity showed high score from the expert urologist. Internal consistency of the questionnaire from both visits was shown of a high level with Cronbach's coefficient alpha(Inter-Item correlation) at 0.80 and 0.82 respectively. There were a strong association between the seven-item score of the OABSS at visit 1 and visit 2 with an Intraclass correlation coefficient (ICC) of 0.96 (95% CI 0.947 to 0.981)

Interpretation of results

The results from this study showed that high correlation in internal consistency, Cronbach' coefficient alpha and external consistency, used intra-class correlation coefficient. This compares desirable to the psychometric validity study of the OABSS English language version.

Concluding message

The OABSS in Thai version is a reliable and valid, and will help health care providers and specialists to easily assess a Thai patient's symptoms and severity of symptoms.

Domains (total scores)	Visit 1 (Mean± SD)	Visit 2 (Mean± SD)
1 frequency and nocturia (8)	4.48 (1.545)	4.43 (1.489)
2 Urgency (12)	7.23 (2.445)	7.25 (2.468)
3 Urge incontinence (4)	1.08 (1.293)	1.07 (1.287)
4 Bladder control (4)	2.55 (0.746)	2.48 (0.833)
Total (28)	15.35 (4.857)	15.23 (4.966)

Table 1 : The Participants' responses scores in each domains.

Questions	1	2	3	4	5	.6	7
1. How many do you usually urinate during the day?	1.000						
2. How many times do you usually urinate at night ?	.145	1.000					
3. What is the reason that you usually urinate?	.254	.355	1.000				
4. Once you get the urge or desire to urinate, How long can you postpone it comfortably?	.430	.397	.479	1.000			
5. How often do you get a sudden makes you want to stop what you are doing and rush to the bathroom?	.327	.500	.559	.381	1.000		
6. How often do you get a sudden urge or desire to urinate that makes you want to stop what you are doing and rush to the bathroom but you do not get there in time? (leak or wet pads)	.016	.225	.339	.572	.128	1.000	
7. In your opinion how good is your bladder control?	.387	.425	.478	.706	.462	.619	1.000

TABLE 2: Inter-Item Correlation Matrix for each of seven items at Visit 1

Domains	ICC (95% CI)
1 frequency and nocturia	0.908 (0.85 – 0.944)
2 Urgency	0.948 (0.915 – 0.969)
3 Urge incontinence	0.985 (0.975 – 0.991)
4 Bladder control	0.787 (0.667 – 0.867)
Ovaerall	0.96 (0.948 – 0.981)

Table 3: Intraclass correlation in each domain at Visit 1 and 2.

References

1. Blaivas JG, Panagopoulos G, Weiss JP and Somaroo C. Validation of the overactive bladder symptom score. J urol.(178)2007:543-7.
2. Abrams P, Cardozo L, Fall M, et.al. The standardisation of terminology of lower urinary tract function: report from the Standardisation Sub-Committee of the International Continence Society. Neurourol Urodyn. (21)2002:167-178.

Disclosures

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