

Supplementary Information File

Confirmatory factor analysis of the Arabic version of the ICIQ-LTCqol

The following supplementary materials provide further detail on the Confirmatory factor analysis conducted on the Arabic version of the ICIQ-LTCqol.

Endogenous variables were q4a q5a q6a q7a q8a q9a q10a q11a q12a q13 q14 q15

Exogenous latent variables were 'function' and 'lifestyle' domains.

The CFA was fitted via a structural equation model using a maximum likelihood estimation method on the standardized endogenous variables. N=141

eTable 1 Structural Equation Model coefficients

Domain	Variable	Coefficient	95% CI of coefficient
Function	4a Confidence in catheter equipment	0.39	0.22 to 0.56
	5a Catheter leakage on mind	0.42	0.24 to 0.60
	6a Catheter blockage on mind	0.52	0.35 to 0.68
	7a How problematic catheter considered to be	0.48	0.33 to 0.64
	8a Frequency of urine infections	0.27	0.08 to 0.45
	9a Worry about smell	0.31	0.12 to 0.49
	10a Embarrassed about catheter	0.64	0.50 to 0.77
	11a Adapted to life with catheter	0.67	0.52 to 0.81
	12a Overall effect on everyday life	0.33	0.16 to 0.50
Lifestyle	13 Effect on ability to travel	0.97	0.95 to 0.98
	14 Effect on social activities	0.98	0.97 to 0.98
	15 Effect on ability to go out of the house	0.99	0.99 to 1.00

12 error covariances were included in the model. These were as follows:

eTable 2 Error Covariances from the Structural Equation Model

Error Covariance	Value	95% CI
Q4a Q6a	0.24	0.07 to 0.41
Q4a Q14	-0.20	-0.38 to 0.03
Q5a Q9a	0.19	0.03 to 0.36
Q5a Q10a	-0.11	-0.32 to 0.11
Q6a Q8a	0.19	0.04 to 0.35
Q6a Q11a	-0.19	-0.40 to 0.03
Q6a Q15	-0.37	-0.69 to -0.05
Q7a Q8a	0.21	0.05 to 0.37
Q8a Q9a	0.25	0.11 to 0.40
Q9a Q10a	0.26	0.08 to 0.43
Q12a Q13	-0.14	-0.32 to 0.03
Q12a Q14	0.19	0.02 to 0.37
Function Lifestyle	0.54	0.39 to 0.69

Fit statistics

Fit statistic	Value	Description
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Likelihood ratio

chi2_ms(41)	46.671	model vs. saturated
p > chi2	0.251	
chi2_bs(66)	1054.651	baseline vs. saturated
p > chi2	0.000	

Population error

RMSEA	0.031	Root mean squared error of approximation
90% CI, lower bound	0.000	
upper bound	0.068	
pclose	0.762	Probability RMSEA <= 0.05

Information criteria

AIC	5293.989	Akaike's information criterion
BIC	5438.478	Bayesian information criterion

Baseline comparison

CFI	0.994	Comparative fit index
TLI	0.991	Tucker-Lewis index

Size of residuals

SRMR	0.058	Standardized root mean squared residual
CD	0.997	Coefficient of determination

Stata syntax

#delimit;

sem(FUNCTION-> q4a q5a q6a q7a q8a q9a q10a q11a q12a)(LIFESTYLE-> q13 q14 q15),

cov(e.q4a*e.q6a) cov(e.q4a*e.q14) cov(e.q8a*e.q9a)

cov(e.q5a*e.q9a)cov(e.q5a*e.q10a)cov(e.q6a*e.q8a)cov(e.q6a*e.q11a)

cov(e.q6a*e.q15)

cov(e.q7a*e.q8a)

cov(e.q9a*e.q10a)

cov(e.q12a*e.q13)

cov(e.q12a*e.q14)stand;

estat gof, stats(all)