JOACMEQ

EVIDENCE

The JOACMEQ has a category B recommendation in accordance with COSMIN criteria (1-3).

RELIABILITY

Property	Result Summary	Overall Rating	Quality of Evidence	Reference
Internal consistency	Cronbach's alpha: 0.91; total sample size: 70	Indeterminate	Moderate	(31)
Bladder function	Cronbach's alpha range 0.77–0.78; consistent; total sample size: 157	Indeterminate	High	(31, 32)
Cervical spine function	Cronbach's alpha range 0.75–0.88; consistent; total sample size: 157			
QOL	Cronbach's alpha range 0.80–0.86; consistent; total sample size: 157			
Upper extremity function	Cronbach's alpha range 0.72–0.74; consistent; total sample size: 157			

Measurement Error

Property	Result Summary	Overall Rating	Quality of Evidence	Reference
Bladder function	MDC or SDC Distribution: 7.7; total sample size: 101	Insufficient	Very low	(4)
Cervical spine function	MDC or SDC Distribution: 12.9; total sample size: 101 Anchor: 12.5; total sample size: 101			
Lower extremity function	MDC or SDC Distribution: 7.3; total sample size: 101 Anchor: 9.4; total sample size: 101	Inconsistent	N/A	(4)

RELIABILITY

Property	Result Summary	Overall Rating	Quality of Evidence	Reference
QOL	MDC or SDC Distribution: 6.6; total sample size: 101 Anchor: 8.5; total sample size: 101	Sufficient	Very low	(4)
Upper extremity function	MDC or SDC Distribution: 9.5; total sample size: 101 Anchor: 6.1; total sample size: 101			
Reliability				
Bladder function	Test-retest stability: ICC: 0.62; total sample size: 70	Insufficient	Very low	(31)
Cervical spine function	Test-retest stability: ICC: 0.63; total sample size: 70			
Lower extremity function	Test-retest stability: ICC: 0.93; total sample size: 70	Sufficient	Very low	(31)
QOL	Test-retest stability: ICC: 0.83; total sample size: 70			
Upper extremity function	Test-retest stability: ICC: 0.93; total sample size: 70			

VALIDITY

Property	Result Summary	Overall Rating	Quality of Evidence	Reference
Content validity	Patient comprehensibility: "No questions elicited no answer or "I am not sure" in more than 5% of patients"	Indeterminate	Very low	(33)
Cross-cultural validity	Forward-backward translation [Persian and Thai] No info available	Indeterminate	Very low	(31, 32)

VALIDITY

Property	Result Summary	Overall Rating	Quality of Evidence	Reference
Criterion validity				
Cervical spine function	Likert scale, "Health transition question" AUC: 0.58; total sample size: 101	Insufficient	Very low	(4)
	Likert scale, "Patient satisfaction question" AUC: 0.58; total sample size: 101			
Upper extremity function	Likert scale, "Health transition question" AUC: 0.66; total sample size: 101			
	Likert scale, "Patient satisfaction question" AUC: 0.65; total sample size: 101			
Lower extremity function	Likert scale, "Health transition question" AUC: 0.61; total sample size: 101			
	Likert scale, "Patient satisfaction question" AUC: 0.66; total sample size: 101			
QOL	Likert scale, "Health transition question" AUC: 0.70; total sample size: 101			
	Likert scale, "Patient satisfaction question" AUC: 0.66; total sample size: 101			
Construct validity				
QOL	NDI Spearman's rank correlation: −0.66; total sample size: 92	Sufficient	Low	(8)

VALIDITY

Property	Result Summary	Overall Rating	Quality of Evidence	Reference
QOL	SF-12 PCS Spearman's rank correlation: 0.29; total sample size: 92	Insufficient	Low	(8)
	SF-12 MCS Spearman's rank correlation: 0.40; total sample size: 92			

RESPONSIVENESS

Property	Result Summary	Overall Rating	Quality of Evidence	Reference
Bladder function	JOACMEQ BF AUC: 0.82; total sample size: 78	Sufficient	Moderate	(34)
	JOACMEQ BF Mean change score: 18.0; total sample size: 87	Indeterminate	Very low	(32)
	JOACMEQ BF Effect size: 0.33; total sample size: 78	Insufficient	Moderate	(30)
Cervical spine function	JOACMEQ CF AUC: 0.72; total sample size: 78	Sufficient	Moderate	(34)
	JOACMEQ CF Mean change score: 25.8; total sample size: 87	Indeterminate	Very low	(32)
	JOACMEQ CF Effect size: 0.28; total sample size: 78	Insufficient	Moderate	(34)
Lower extremity function	JOACMEQ LEF AUC: 0.75; total sample size: 78	Sufficient	Moderate	(34)
	JOACMEQ LEF Mean change score: 28.4; total sample size: 87	Indeterminate	Very low	(32)

RESPONSIVENESS

Property	Result Summary	Overall Rating	Quality of Evidence	Reference
	JOACMEQ LEF Effect size: 0.02; total sample size: 78	Insufficient	Moderate	(34)
Upper extremity function	JOACMEQ UEF AUC: 0.74; total sample size: 78	Sufficient	Moderate	(34)
	JOACMEQ UEF Mean change score: 10.7; total sample size: 87	Indeterminate	Very low	(32)
	JOACMEQ UEF Effect size: 0.17; total sample size: 78	Insufficient	Moderate	(34)
QOL	JOACMEQ QOL AUC: 0.83; total sample size: 78	Sufficient	Moderate	(34)
	JOACMEQ QOL Mean change score: 23.7; total sample size: 87	Indeterminate	Very low	(32)
	JOACMEQ QOL Effect size: 0.46; total sample size: 78	Insufficient	Moderate	(34)

INTERPRETABILITY

Property	Result Summary	Overall Rating	Quality of Evidence	Reference
Bladder function	MCID: 6.0; total sample size: 78	Sufficient		(34)
Cervical spine function	MCID: 2.5; total sample size: 179	Sufficient		(4, 34)
Lower extremity function	MCID range 2.5–9.4; total sample size: 179			

INTERPRETABILITY

Property	Result Summary	Overall Rating	Quality of Evidence	Reference
QOL	MCID range 8.5–9.5; total sample size: 179	Sufficient		(4, 34)
Upper extremity function	MCID range 2.5–13.0; total sample size: 179			

FEASIBILITY

Tool	Time (Min)	Equipment	Training	License	Money	Ease of Administration	Overall Assessment
JOACMEQ	5-15	Minimal	No	No	No	Minimal barriers	Minimal barriers