mJOA

EVIDENCE

The mJOA has a category C recommendation in accordance with COSMIN criteria (1-3) due to high quality evidence for insufficient criterion and construct validity.

RELIABILITY

Property	Result Summary	Overall Rating	Quality of Evidence	Reference
Internal consistency	Cronbach's alpha range 0.60–0.63; consistent; total sample size: 352	Indeterminate	High	(35, 36)
Measurement error	MDC or SDC Distribution: 2.1; total sample size: 113	Inconsistent	Very low	(16)
	MCID range; total sample size: 868 Distribution: 1.2–1.4	Sufficient	High	(16, 37)
Reliability	Test-retest stability: Spearman's rank correlation: 0.91; total sample size: 75	Indeterminate	Very low	(35)
	Intra-observer reliability: ICC: 0.87; total sample size: 55	Sufficient	Very low	(38)
	Inter-observer reliability: ICC: 0.97; total sample size: 55 Kappa: 0.80; total sample size: 75	Sufficient	Low	(35, 38)
Motor dysfunction of lower extremities	Inter-observer reliability: ICC: 0.73; total sample size: 75	Sufficient	Low	(35)
Motor dysfunction of upper extremities	Inter-observer reliability: ICC: 0.77; total sample size: 75			
Sensory dysfunction of sphincter dysfunction	Inter-observer reliability: ICC: 0.78; total sample size: 75			

RELIABILITY

Property	Result Summary	Overall Rating	Quality of Evidence	Reference
Sensory dysfunction of upper extremities	Inter-observer reliability: ICC: 0.93; total sample size: 75	Sufficient	Low	(35)

VALIDITY

Property	Result Summary	Overall Rating	Quality of Evidence	Reference
Cross-cultural validity	Forward-backward translation [Brazilian Portuguese and Italian] No info available	Indeterminate	Very low	(35, 39)
Criterion validity	Nurick scale [convergent] Spearman's rank correlation: -0.41; total sample size: 119 Pearson's correlation range: -0.62 to -0.63; total sample size: 352	Sufficient	High	(5, 35, 36)
Motor dysfunction of upper extremities	Nurick scale [convergent] Pearson's correlation range -0.42 to -0.42; total sample size: 352	Insufficient	High	(35, 36)
Motor dysfunction of lower extremities	Nurick scale [convergent] Pearson's correlation: -0.65 to -0.68; total sample size: 352	Sufficient	High	(35, 36)
Sensory dysfunction of upper extremities	Nurick scale [convergent] Pearson's correlation: -0.23; total sample size: 277	Insufficient	High	(36)
Sensory dysfunction of sphincter dysfunction	Nurick scale [convergent] Pearson's correlation: -0.25; total sample size: 277			
Construct validity	30MWT [convergent] Pearson's correlation: -0.38; total sample size: 193	Insufficient	High	(36)

VALIDITY

Property	Result Summary	Overall Rating	Quality of Evidence	Reference
Construct validity	JOACMEQ QOL [convergent] Spearman's rank correlation: 0.41; total sample size: 92	Insufficient	Low	(8)
	EQ-5D Spearman's rank correlation: 0.42; total sample size: 119	Insufficient	High	(5)
	SF-36 PCS Pearson's correlation range: 0.30–0.30; total sample size: 338	Sufficient	High	(8)
	SF-12 PCS Spearman's rank correlation: 0.47; total sample size: 92			
	SF-36 MCS Pearson's correlation: 0.25–0.25; total sample size: 338	Sufficient	High	(8, 35, 36)
	SF-12 MCS Spearman's rank correlation: 0.03; total sample size: 92			
	NDI Spearman's rank correlation: -0.51; total sample size: 92 Pearson's correlation range -0.33 to -0.34; total sample size: 336			
Motor dysfunction of lower extremities	30MWT [convergent] Pearson's correlation: -0.43; total sample size: 193	Insufficient	High	(36)
	SF-36 PCS Pearson's correlation range: 0.31–0.50; total sample size: 338	Sufficient	High	(35, 36)

VALIDITY

Property	Result Summary	Overall Rating	Quality of Evidence	Reference
Motor dysfunction of lower extremities	SF-36 MCS Pearson's correlation: 0.21; total sample size: 268	Sufficient	High	(36)
	NDI Pearson's correlation: -0.31; total sample size: 261			
Motor dysfunction of upper extremities	30MWT [convergent] Pearson's correlation: -0.21; total sample size: 193	Insufficient	High	(36)
	SF-36 PCS Pearson's correlation: 0.22; total sample size: 268			
	SF-36 MCS Pearson's correlation: 0.20; total sample size: 268	Sufficient	High	(36)
	NDI Pearson's correlation: -0.24; total sample size: 261			
Sensory dysfunction of sphincter dysfunction	30MWT [convergent] Pearson's correlation: -0.23; total sample size: 193	Insufficient	High	(36)
	SF-36 PCS Pearson's correlation: 0.06; total sample size: 268	Sufficient	High	(36)
	SF-36 MCS Pearson's correlation: 0.08; total sample size: 268			
	NDI Pearson's correlation: -0.16; total sample size: 261			
Sensory dysfunction of upper extremities	30MWT [convergent] Pearson's correlation: -0.05; total sample size: 193	Insufficient	High	(36)

VALIDITY

Property	Result Summary	Overall Rating	Quality of Evidence	Reference
Sensory dysfunction of upper extremities	SF-36 PCS Pearson's correlation: 0.19; total sample size: 268	Sufficient	High	(36)
	SF-36 MCS Pearson's correlation: 0.19; total sample size: 268			
	NDI Pearson's correlation: -0.23; total sample size: 261	Insufficient	High	(36)

RESPONSIVENESS

Property	Result Summary	Overall Rating	Quality of Evidence	Reference
Responsiveness	mJOA Effect size range 0.87–1.0; total sample size: 352	Sufficient	High	(35, 36)
	mJOA Normalised change: 1.47; total sample size: 42	Indeterminate	Very low	(5)

INTERPRETABILITY

Property	Result Summary	Overall Rating	Quality of Evidence	Reference
Interpretability	MCID range 1.3–3.1; total sample size: 868	Sufficient		(16, 37)
	SCB: 14; total sample size: 35	Indeterminate		(10)

FEASIBILITY

Tool	Time (Min)	Equipment	Training	License	Money	Ease of Administration	Overall Assessment
mJOA	5	No	No	No	No	No barriers	No barriers