Reviewer ID: Carlos L. Cano Herrera, Tyra Chu

Last updated: February 5th, 2024

Research Summary – Needs Assessment Checklist (NAC) – Self Care and Daily Living

Author Year Research Design Setting (country)	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiveness Interpretability
Kennedy et al. 2012 Psychometric study National Spinal Injuries Centre, UK	N=193 143M, 50F Mean age: 46.6 years Tetraplegia: 30 complete, 56 incomplete; paraplegia: 41 complete, 36 incomplete; missing information: 30 patients		**Internal consistency:** Cronbach's α: - Overall: 0.889 - All subscales: > 0.7	

Berry & Kennedy 2002
 	
Consecutive series, psychometric validation study
 	
Tertiary care, spinal cord injury centre (National Spinal Injuries Centre), Stoke
	N=43, 38M/5F
	Mean age 42.19 (14.6) years
	13.9% complete tetraplegia
	37.2% incomplete tetraplegia
	23.3% complete paraplegia
	25.6% complete paraplegia
	Mean time btwn SCI and:
		Pearson's r (P<0.01):
		- NAC ADL with:
		  o SCIM self-care: 0.850
		  o SCIM total: 0.873
		- NAC Bladder & Bowl Mgmt with:
		  o SCIM Respiration & Sphincter Mgmt: 0.681
			Internal consistency:
			Cronbach's α:
			- Overall: 0.8587
			- Activities of Daily Living: 0.9697
			- Skin Mgmt: 0.8830
			- Bladder Mgmt: 0.8356
			- Bowel Mgmt: 0.8097
			- Mobility: 0.8729	

Reviewer ID: Carlos L. Cano Herrera, Tyra Chu

Last updated: February 5th, 2024

Author Year Research Design Setting (country)	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiveness Interpretability
Mandeville Hospital, UK	- 1st NAC assessment: 17.5 (13.2) weeks - 2nd NAC assessment: 38.6 (31.3) weeks	o SCIM total: 0.754 - NAC Mobility with: o SCIM Mobility: 0.691 o SCIM total: 0.696 - NAC Psychological Issues (Mood subsection) with: o HADS Anxiety: -0.709 o HADS Depression: -0.633 o HADS total: -0.726 - NAC Psychological Issues (Full subscale) with:	- Wheelchair & Equipment: 0.9527 - Community Preparation: 0.7805 - Discharge Coordination: 0.9251 - Psychological Issues: 0.7347 **Test-retest, inter-rater, intra-rater:** Test-retest Pearson's r: - Subscales mean = 0.8238 - Subscales: 0.694-0.904 (P≤0.01) - Mean Interval = 7.2 (2.88) days	

Author Year Research Design Setting (country)	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiveness Interpretability
		o HADS Anxiety: -0.501 o HADS Depression: -0.466 o HADS total: -0.523 *SCIM-II used		
[Kennedy et al.](#) 2003 Case series, consecutive sample, survey Tertiary care, spinal cord injury unit (National Spinal Injuries Centre), Stoke Mandeville Hospital	N=192, 147M/45F Mean age 40.7(16.5) 152 between 16-54 (older group), 40 between 55-85 (younger group) Male in 78% of older group & 76% of younger group Tetraplegia in 54% of older group & 42% of younger group Incomplete SCI in in 65% of older group & 39% of younger group		**Internal consistency:** Cronbach's α: - Overall: 0.83 - Activities of Daily Living: 0.9467 - Skin Mgmt: 0.8478 - Bladder Mgmt: 0.7753 - Bowel Mgmt: 0.8741 - Mobility: 0.8358 - Wheelchair & Equipment: 0.9239	

Reviewer ID: Carlos L. Cano Herrera, Tyra Chu

Last updated: February 5th, 2024

Author Year Research Design Setting (country)	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiveness Interpretability
			- Community Preparation: 0.7146 - Discharge Coordination: 0.8855 - Psychological Issues: 0.6729	