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Research Summary – Skin Management Need Assessment Checklist (SMNAC) – Skin Health

Author Year Research Design Setting (country)	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiveness Interpretability
Gelis et al. 2018 Cross-sectional study	N=132, 75% male Mean age (SD): 45.9 (14.9) Mean duration (SD): 7.8 (10) 103 traumatic 29 non-traumatic	Correlations of modified SMNAC with: Rosenberg scale: r = 0.25 Active coping: r = 0.29 HADS: r = -0.43 Time since injury: r = 0.49	Internal consistency: α = 0.907	
Six spinal cord centres	AIS level: 84 level A 17 level B 16 level C 15 level D			
Gelis et al. 2011 Methodological cross-cultural adaptation and reliability study Not specified	N=138 (103M, 35F) Mean age: 45.9±14.9y Mean time since injury = 94 months SCI AIS A: 83 AIS B: 16		Test-retest, Interrater, Intra-rater: Test-retest: ICC=0.899 (CI 95%: 0.862-0.927).	
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	(Note: above AIS scores do not add up to total sample size but the article reported these numbers) Lesion level: 49 cervical, 89 upper			
	and lower back Etiology: 112 traumatic, 26 medical			
Berry & Kennedy 2003 Methodological, consecutive series study	N=43 (38M, 5F) Mean age=42.19±14.6 13.9% complete tetraplegia 37.2% incomplete tetraplegia 23.3% complete		Test-retest, Interrater, Intra-rater: Test-retest (Pearson's r correlation): See table 1.	Interpretability: SMNAC score and clinically relevant values (SEM and MDC calculated from data obtained from Berry & Kennedy 2003): See table 2.
Tertiary care, spinal cord injury centre (National Spinal	paraplegia 25.6% incomplete paraplegia			

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Injuries Centre), Stoke Mandeville Hospital, UK.	Mean (SD) time since injury = 17.5 (13.2) weeks			
	Table 1.	L		
	Subscale:	r:		
	ADL	0.884		
	Skin management	0.904		
	Bladder management	0.694		
	Bowel management	0.783		
	Mobility	0.883		
	Wheelchair and equipment	0.883		
	Community preparation	0.830		
	Discharge coordination	0.805		
	Psychological issues	0.748		
	Table 2.			
	Subscale:	Mean (SD) score:	SEM	MDC
	ADL	59.07 (25.88)	8.81	24.43
	Skin management	25.67 (10.54)	3.27	9.05
	Bladder management	22.81 (7.23)	4.00	11.09
	Bowel management	13.91 (6.27)	2.92	8.10

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	Mobility	24.28 (13.30)	4.55	12.61
	Wheelchair and equipment	46.09 (27.27)	9.33	25.86
	Community preparation	39.28 (12.73)	5.25	14.55
	Discharge coordination	47.86 (25.52)	11.27	31.24
	Psychological issues	45.49 (7.99)	4.01	11.12
Berry et al. 2004 Methodological consecutive series study Spinal Cord Injuries rehabilitation	N=317 Mean age=41±17.4 Traumatic or non- traumatic SCI	Subgroups: Negative correlation between age and skin management except individuals with complete tetraplegia. Correlations: incomplete tetraplegia (r = -0.22, n=100, P=.029, 2 tailed), complete paraplegia	Internal consistency: α = 0.851	Responsiveness: Significant differences between first score and second scores (mean days =103±66) using paired-sample t-test (t = -24.38, df = 186, P<.001)

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		(r = -0.27, n=84, P=.013, 2 tailed)		
		No significant difference between gender and SMNAC scores.		