Last updated: December 31st, 2024

Research Summary – Appraisals of Disability: Primary and Secondary Scale (ADAPSS) – Self Care and Daily Living

Author Year Research Design Setting (country)	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiveness Interpretability
Russell et al. 2021 Retrospective study using ROC analyses	Study participants were categorized into either "healthy adjustment" (n = 53) or "poor adjustment" (n = 37).			The ADAPSS-sf is effective in identification of poor psychological adjustment, P < .001.
and odds ratios to identify the clinical utility of	Healthy adjustment: N = 53 Mean (SD) age 55.4			Diagnostic odds ratios and ADAPSS-sf cut scores were selected to prioritize
the ADAPSS-sf. In addition, blocked hierarchical regression	(13.3) years 50M, 3F Injury characteristics: Tetraplegia (AIS A, B, C) (n = 14), paraplegia			sensitivity (7.17, ≤ 11), specificity (68.25, ≥ 22), or a balance of the two (16.32, ≤ 19).
explored the ADAPSS-sf predictive characteristics for satisfaction	(AIS A, B, C) (n = 25), AIS D (n = 14) Traumatic injury: Yes (n = 45), no (n = 8)			Hierarchical regression indicated the ADAPSS-sf accounted for unique
with life beyond measures of emotional distress	Poor adjustment: N = 37 Mean (SD) age 55.7 (12.9) years 36M, 1F Injury characteristics:			variance in life satisfaction beyond measures of emotional distress, $(\Delta R^2 = .20, \beta = -$

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Veteran's Health Administration SCI Center in the Southwest continental United States	Tetraplegia (AIS A, B, C) (n = 2), paraplegia (AIS A, B, C) (n = 9), AIS D (n = 26) Traumatic injury: Yes (n = 28), no (n = 9)			.66, <i>t</i> (89) = 6.54, P < .001).
Deane et al. 2020 Telephone interview, longitudinal study	N=115 Age: 18 years or younger at time of SCI, initially interviewed at age 19 or older, and followed annually		ADAPSS-sf demonstrates strong test–retest reliability and internal consistency Correlations were positive, significant, and strong for Items 1, 2, 4, and 6 (r =0.55–0.80, p <0.01), positive, significant, and moderate for Item 3 (r =0.33, p =0.02), and only trending significance for Item 5 (r =0.33, p =0.07)	
McDonald et al. 2018	262 Veterans seen at a VA medical center for their annual SCI	Concurrent validity was supported by the finding that the	Internal consistency of ADAPSS-sf as measured by	

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Retrospective study	evaluations during 2011-2013 Age: median 59 years Male: 96% Traumatic SCI: 71% AIS D: 51% Paraplegia: 43% Low tetraplegia (C5-C8): 32% High tetraplegia (C1-C4): 25%	ADAPSS-sf was strongly correlated with measures of depression and life satisfaction	Cronbach's alpha was adequate (alpha = .73; N = 256). Correlations were positive, moderate in strength, and significant for items 1, 2, 4, and 6 (r = .41 to .66, p < .01), but were nonsignificant for items 3 (r =02) and 5 (r = .25)	
Eaton et al. 2018 Cross-sectional National Spinal Injuries Centre, UK	N = 371 participants with acute SCI 261M, 110F Mean age 53 years, ranging from 15 to 91 years Cause of injury: Traumatic and non- traumatic AIS A (n = 79), AIS B (n = 56), AIS C (n = 106), and AIS D (n = 130) Level of injury: Cervical (n = 179), Thoracic (n =	ADAPSS-SF total and both factors (resilience and loss) were significantly positively correlated to both the HADS subscales. See table 1. Principle Component Analysis with oblique rotation demonstrated a coherent two-factor structure of the		

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	143), lumbar (n = 45) and sacrum (n = 4)),	ADAPSS- SF: and loss.	resilience				
	Table 1. Pearson's coloss), HADS anxiety a				-SF tota	al, ADAPSS-SF fac	ctors (resilience and	
		fact	APSS-SF tor 1 silience)	ADAPSS- factor 2 (HADS-anxiety	HADS- depression	
	ADAPSS-SF total	0.81]**	0.864**		0.597**	0.633**	
	ADAPSS-SF factor 1 (resilience)	=		0.438**		0.398**	0.520**	
	ADAPSS-SF factor 2 (loss)	-		-		0.605**	0.597**	
	HADS-anxiety	-				-	0.649**	
Mignogna et al. 2014 Cross-sectional	N = 98 (94M, 4F) Mean age =18.3 (13.1) Injury characteristic Tetraplegia (low): n= Tetraplegia (high, Al A,B,C): n=6	associated w satisfaction (-0.72, p < .00 controlling for		ely ith life ß = l), or ymptoms				

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	AIS D: n=41 Traumatic injury: Yes (77) No (21) Inclusion Criteria: - Solely based on the completion of the ADAPSS-sf sample of outpatient Veterans with spinal cord injuries and disorders (SCI/D).	level of injury (β = 0.153, ρ = .051).		
Dean & Kennedy 2009 Cross-sectional (N=237) and test-retest (N=93)	Cross-sectional study: 237 SCI participants (68% male) Mean age: 47 years (range: 18-81) 56% reported paraplegic injuries 37% reported tetraplegic injuries 7% unknown	All six ADAPSS subscales were significantly positively correlated with measures of threat and loss appraisals and measure of anxiety via hospital and anxiety and depression scale; significantly negatively correlated	Internal Consistency Cronbach's alpha for Time 1: Fearful despondency: .85 Overwhelming disbelief: .83 Determined resolve: .74	

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	Test-retest study: 93 SCI participants (63% male) Mean age: 48 years (range: 22-65) 64% reported paraplegic injuries 33% reported tetraplegic injuries 3% unknown	with perceived manageability and challenge appraisals. Spearman's rho correlations between the Perceived Manageability Scale – Needs Assessment Checklist and ADAPSS subscales: Fearful despondency:597 Overwhelming disbelief:468 Determined resolve:599 Growth and resilience:345 Negative perceptions of disability:533 Personal agency:519	Growth and resilience: .73 Negative perceptions of disability: .80 Personal agency: .70 Cronbach's alpha for test-retest: Fearful despondency: .86 Overwhelming disbelief: .86 Determined resolve: .77 Growth and resilience: .78 Negative perceptions of disability: .74 Personal agency: .74	
		Spearman's rho correlations between the Hospital Anxiety and Depression Scale	Test-retest, Inter- rater, Intra-rater All 6 ADAPSS subscales displayed	

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		- Anxiety subscale and ADAPSS subscales: Fearful despondency: .649 Overwhelming disbelief: .597 Determined resolve: .347 Growth and resilience: .187 Negative perceptions of disability: .496 Personal agency: .393 all P<.01	good internal reliability at Time 1 and test-retest (α>.70). Spearman's rho correlations for ADAPSS subscales between time 1 and time 2: Fearful despondency: .879 Overwhelming disbelief: .863	
		The six ADAPSS factors were unrelated to current age and cause of SCI. However, respondents who were unemployed were more likely to endorse items on Fearful Despondency (z=-2.851, P< .01, twotailed), Overwhelming	Determined resolve: .755 Growth and resilience: .828 Negative perceptions of disability: .814 Personal agency: .615 All P<.01	

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		Disbelief (z=-3.473,		
		P<.001, two-tailed),		
		and Negative Perceptions of		
		Disability (z=–3.231,		
		P<.001, two-tailed).		
		Unemployed		
		respondents were		
		also less likely to		
		endorse items on		
		Determined Resolve		
		(z=-2.911, P<.01, two-		
		tailed). There was a		
		significant difference		
		between level of		
		injury and scores on		
		Determined Resolve		
		and Negative Perceptions of		
		Disability. The mean		
		scores suggested		
		respondents with a		
		cervical injury were		
		less likely to endorse		
		Determined Resolve		
		items and more likely		
		to endorse Negative		
		Perceptions of		

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		Disability items. Female respondents also appeared more likely to endorse Overwhelming Disbelief items. There was a weak significant positive correlation between age at time of injury and Negative Perceptions of Disability, suggesting respondents who endorsed items on this subscale were older when they were injured. A weak significant negative correlation between time since injury and Overwhelming Disbelief suggested respondents who endorsed items on this subscale had been injured for less time.		

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		Spearman's rho correlations between the Appraisal of Life Events (ALE) subscales (threat, loss, challenge) and the ADAPSS subscales: See table 1.		
		All six ADAPSS subscales were significantly positively correlated with measures of threat and loss appraisals and significantly negatively correlated with perceived manageability and challenge appraisals. This suggests respondents who were more likely to endorse items on the Fearful Despondency, Overwhelming Disbelief, and		

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		Negative Perceptions of Disability subscales were more likely to appraise their injury in terms of loss and threat and to perceive their injury as unmanageable. They were also less likely to appraise their injury in terms of challenge. Respondents who were less likely to endorse items on the Fighting-Spirit, Growth and Resilience, and Personal Agency subscales were more likely to appraise their injury in terms of loss and threat and to perceive their injury as unmanageable. They too were less likely to appraise their injury in terms of challenge.		
	Table 1.	3. 3. 3. 3. 3.		

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	Variable:	Fearful despondency	Overwhelming disbelief	Dete reso	ermined lve	Growth and resilience	Negative perceptions of disability	Personal agency	
	ALE – Threat	.738	.712	.442		.287	.609	.361	
	ALE - Loss	.739	.721	.473		.310	.614	.458	
	ALE – Challeng e	402	401	292)	262	490	401	