

Research Summary – Donovan SCI Pain Classification – Pain

Author Year Research Design Setting (country)	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiveness Interpretability
<p>Putzke et al. 2003</p> <p>Videotape ratings</p> <p>SCI clinic at the University of Alabama at Birmingham</p>	<p>N=28 (23M, 5F) Mean age 45.5±10.02yrs</p> <p>Recruited from the SCI clinic at the University of Alabama at Birmingham.</p> <p>Traumatic SCI, 21 paraplegic, 7 tetraplegic</p> <p>AIS A: 15 AIS B: 7 AIS C: 4 AIS D: 2</p> <p>Mean Time since Injury 10.3±7.2yrs</p> <p>Reported chronic (>6mo) pain in 1 or more sites.</p>		<p>Test-retest, inter-rater, intra-rater:</p> <p>Patient assessments were videotaped and scored using the Donovan pain scheme on two occasions, separated by a 3 month interval. There were three raters.</p> <p>The overall test-retest reliability was 78%. The percent agreement for each type of pain was as follows: 67% for segmental nerve/cauda equina, 75% for visceral, 80% for mechanical and 84% for spinal cord. No pain data for psychic pain was reported.</p>	

Author Year Research Design Setting (country)	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiveness Interpretability
			<p>The percent agreement between the 3 raters (i.e. inter-rater reliability) at the 3 month assessment was 50%.</p> <p>The rate of agreement within each rater (i.e. intra-rater reliability) ranged from 67 to 83%.</p>	
<p>Richards et al. 2002</p> <p>Videotape ratings Designed to assess interrater reliability of the Donovan classification system as well as the clinician-based usefulness of</p>	<p>N=28 (23M, 5F) Mean age 45.5±10yrs</p> <p>Traumatic SCI 21 paraplegia, 7 tetraplegia 15 AIS A 7 AIS B 4 AIS C 2 AIS D</p> <p>Mean time since injury (SD) = 10.3 (7.2) years</p>		<p>Test-retest, inter-rater, intra-rater:</p> <p>Three raters classified 60 pain sites for each participant using the Donovan system. They were given more detailed information incrementally and had to classify the pain after each step.</p> <p>The correlation between each pair of</p>	

Author Year Research Design Setting (country)	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiveness Interpretability
<p>each classification criteria used in the Donovan system.</p> <p>Academic Rehab Hospital</p>			<p>raters and at each stage of classification was determined with Kappa coefficients. Overall percentage of agreement (%AG) was calculated between all three raters and Bartholomew's proportion analysis was used to indicate if %AG increased with each stage of additional information.</p> <p>Agreement between pairs of raters at different steps ranged from 62-73% (Kappa range 0.44-0.61) and overall agreement ranged from 50-62% (Kappa=0.55). %AG did not increase significantly ($P>0.05$) with each additional piece of information.</p>	

Reviewer ID: Tyra Chu, Carlos L. Cano Herrera

Last updated: January 25th, 2024