

**Research Summary – Spinal Cord Injury Ability Realization Measurement Index (SCI-ARMI) – Self Care and Daily Living**

<b>Author Year Country Research Design Setting</b>	<b>Demographics and Injury Characteristics of Sample</b>	<b>Validity</b>	<b>Reliability</b>	<b>Responsiveness Interpretability</b>
<p><a href="#">Catz et al.</a> 2004</p> <p>Development of instrument and preliminary comparative before-after study</p> <p>Spinal department in a rehabilitation hospital in Israel</p>	<p>N=79 (60M, 19F) Mean age 46±18 33 tetraplegia, 46 paraplegia AIS-A/B = 27, AIS-C/D = 52 41 traumatic, 38 nontraumatic SCI</p>	<p>Pearson's r btwn SCI-ARMI &amp; AIS motor score: Admission to rehabilitation: 0.296 (p&lt;0.01) During rehabilitation: -0.248 (p&lt;0.16, nonsignificant) At rehabilitation completion: -0.123 (p&lt;0.62, nonsignificant) Pearson's r btwn SCI-ARMI (regression-based score) &amp; Time since rehabilitation admission: 0.46 (p&lt;0.01) No significant correlation found btwn SCI-ARMI improvement and Patient age, gender, or spinal cord lesion level or severity (p&gt;0.05)</p>		
<p><a href="#">Scivoletto et al.</a> 2015</p> <p>Validation and further development of</p>	<p>N=661 (478M, 183F) Mean age at admission: 47.6±18.2 AIS-A/B/C/D: 214/55/144/248 patients</p>	<p>Pearson's r btwn SCI-ARMI gain and: ASIA Motor Score at admission: -0.14, p&lt;0.0001</p>		<p><b>Interpretability:</b> Mean (SD) admission-discharge change = 38.8 (22)</p>

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<p>the SCI-ARMI formula using data from 6 countries</p> <p>Spinal cord injury centers from 6 countries and the Statistical Laboratory, Tel-Aviv University, Israel.</p>	<p>387 traumatic, 274 nontraumatic SCI</p> <p>Patients from:</p> <p>Israel = 233 (151M, 82F)</p> <p>Italy = 237 (183M, 54F)</p> <p>Portugal = 26 (17M, 9F)</p> <p>Spain = 30 (24M, 6F)</p> <p>UK = 58 (47M, 11F)</p> <p>US = 77 (56M, 21F)</p>	<p>ASIA Motor Score gain: 0.13, p&lt;0.0006</p> <p>Age: -0.23, p&lt;0.0001</p>		
<p><a href="#">Aidinoff et al.</a> 2012</p> <p>Development of SCI-ARMI and examination of its validity and utility</p> <p>Loewenstein Rehabilitation Hospital, Raanana. Statistical Laboratory, School of Mathematics, Faculty of Exact</p>	<p>250 successive spinal cord lesion (SCL) inpatients treated in the Spinal Department of Loewenstein Rehabilitation Hospital between 2004 and 2010</p> <p>N=226 (65%M, 35%F)</p> <p>Mean age 51.3(18.6)</p> <p>42% tetraplegia, 58% paraplegia</p> <p>AIS-A/B/C/D at admission: 19%/2.7%/23.9%/54.4%</p> <p>38.9% traumatic, 61.1% nontraumatic</p>	<p>Pearson's r btwn SCI-ARMI and ASIA Motor Score at discharge: 0.28, p=0.00001</p>		

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Sciences, Tel-Aviv University, Israel				