Reviewer ID: Tyra Chu, Carlos L. Cano Herrera, Vanessa Noonan

Last updated: February 9th, 2024

**Research Summary – Physical Activity Scale for Individuals With Physical Disabilities (PASIPD) – Self Care and Daily Living**

| Author Year Research Design Setting (country) | Demographics and Injury Characteristics of Sample | Validity | Reliability | Responsiveness Interpretability |
|---|---|---|---|---|
| [Washburn et al.](#) 2002<br><br>Mail survey<br><br>Previous users of rehabilitative services (Midwestern university) | M=227, mean age=51<br>W=145, mean age= 48<br><br>80% spinal cord or other locomotor injuries<br>56 paraplegia, 38 quadriplegia, 30 cerebral palsy, 77 post-polio | Pearson correlation between survey items and total PASIPD score:<br>all statistically significant (P<.05) and >0.20 (range: r=0.20-0.67)<br><br>Factor analysis five latent factors:<br>1. Home, lawn and garden repair<br>2. Housework<br>3. Vigorous sport and recreation<br>4. Light sport and recreation<br>5. Occupation and transportation<br>(>1 eigenvalues, >0.4 factor loading): | **Internal Consistency:** Cronbach's alpha = 0.37- 0.65, indicating low to moderate internal consistency within factors, (P<.05) | **Interpretability: SEM, MDC, MCID, normative & published data:** Total and Subcategory mean (SD) scores for the PASIPD: group = locomoter/SCI disability (n=260)<br>Total score: 19.8 (14.4)<br>Home Repair/Gardening: 1.5 (3.4)<br>Housework: 2.5 (3.2)<br>Vigorous Sport: 2.4 (5.6)<br>Moderate Sport: 1.4 (2.9)<br>Occupation: 11.9 (10.2) |

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| | | Account for 63% of variance<br><br>Group differentiation: scored differently between groups by age, physical activity level, and self-rated health status. | | |
| de Groot et al. 2010<br><br>Cross-sectional study<br><br>English Dutch rehabilitation centers with a specialized SCI unit | N=139<br>Mean age: 41.5 ± 14.1 years<br>Age range: 18-65 years<br>73% male<br>68 paraplegic, 64% complete lesion<br>Time since Injury: 705 ± 169 days<br>AIS A-D | PASIPD with the Utrecht Activities List (UAL)<br><br>r-0.51 (moderate)<br><br>PASIPD with Subscales Mobility Range and Social Behaviour of SIP68 (SIPSOC)<br><br>r=0.47 (moderate) | **Internal Consistency:** Cronbach's alpha α= 0.63 indicating low internal consistency | |
| Van Den Berg-Emons et al. 2011 | N = 124 total patients (cerebral palsy, meningomyelocele, or SCI) | No significant Spearman correlation coefficients between the PASIPD and | | **Interpretability: SEM, MDC, MCID, normative & published data:** |

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| Cross-sectional<br><br>Participants' home environment | N= 21 SCI patients (14M, 7F)<br>Mean age: 40.7±14.3y<br><br>Patients with SCI Ambulatory status (determined according to the classification of Hoffer et al.):<br>1 = 0<br>2 = 0<br>3 = 5<br>4 = 16 | activity monitor outcome measures were found for SCI patients:<br><br>*Activity monitor duration x PASIPD duration*<br>Spearman's p= 0.31 (P=.18)<br><br>*Activity monitor duration x PASIPD intensity*<br>Spearman's p=0.28 (P=.22) | | Mean (SD) PASIPD intensity score for SCI patients: 10.9 (12.0) MET* hours/day<br>*MET = metabolic equivalent |
| [van der Ploeg et al.](#) 2007<br><br>Test-retest study assessing measurement properties<br><br>Community – former patients | N = 45 (18M, 27F) participants, all wheelchair non-dependent (stroke, spinal cord injury, whiplash, and neurological-, orthopedic- or back disorders) | The criterion validity Spearman correlation was 0.30 when compared to the accelerometer.<br>The reported criterion validity correlation of the PASIPD (0.30) was similar to that of physical activity questionnaires for the | **Test-retest, inter-rater, intra-rater:**<br>The test-retest reliability Spearman correlation of the PASIPD was 0.77 (P>0.05).<br><br>Mean Scores ± (SD) | |

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| of 3 Dutch rehabilitation centers | Mean age ± SD (y) 47 ± 12 | general population. A review reported correlations between questionnaires and accelerometers from 0.14 to 0.53 (median approximately 0.30). | First PASIPD - 74.9 ± 58.8<br>Second PASIPD - 65.1 ± 44.6 - | |

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**Research Summary – Physical Activity Scale for Individuals With Physical Disabilities (PASIPD) – Self Care and Daily Living - Cross-cultural Validation Studies**

| Author Year Research Design Setting (country) | Demographics and Injury Characteristics of Sample | Validity | Reliability | Responsiveness Interpretability |
|---|---|---|---|---|
| Köce et al. 2022<br><br>Cultural adaptation, examination of the psychometric properties of the PASIPD Turkish-version<br><br>Spinal Cord Injury Association of Turkey and other associations connected to Hüsnü Ayı k Special Care Center | 47 participants with SCI<br>Mean (± SD) age 43.98 ± 13.50<br>Gender: 26F, 21M<br>Reason of injury: Traumatic (n = 34) and non-traumatic (n = 13)<br>AIS level: A (n = 26), B (n = 6), C (n = 13), and D (n = 2)<br>Level of injury: C5-C6 (n = 6), C7-C8 (n = 5), T1-T12 (n = 22), L1-L5 (n = 14)<br>Clinical type: Paraplegia (n = 37), tetraplegia (n = 10) | **Factor structure and construct validity:** PASIPD was explained by three factors. The ratio of explaining the total variance of these 3 factors was determined as 51.66%.<br><br>**Convergent validity of the Turkish Version of PASIPD:** PASIPD was explained by three factors. The ratio of explaining the total variance of these 3 factors was determined as 51.66%. FIM ($r$ = 0.307, $p$ = 0.040) and CHART-SF were moderately positively correlated with PASIPD total score. The correlation between the total | The Cronbach's alpha coefficient **(internal consistency)** of the whole scale was found to be 0.725.<br><br>The ICC coefficient for the **test–retest reliability** of the Turkish version of PASIPD was found to be 0.851. | |

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| | | score of PASIPD and NHP was $r$ = 0.443 ($p$ = 0.002).<br><br>**Criterion validity of the Turkish Version of PASIPD:**<br>20 Meters Propulsion ($r$ = -0.404, $p$ = 0.005) and Slalom Tests ($r$ = -0.305, $p$ = 0.037) were highly negative and 6min Push Propulsion ($r$ = 0.456, $p$ =0.001) were moderately positive with PASIPD total score. | | |
| Mat Rosly et al. 2019<br><br>Mail survey (PASIPD Malaysian adaptation)<br><br>Malaysia | N= 250 (124 Bahasa Malaysia, 126 English) Mean age: 42.6 ± 14.4 years 177 Males, 73 Females Time since injury: 13.2 ± 11.4 years Traumatic Injury | **Construct validity:** Factor analysis extracted four main dimensions for physical activity; factor 1 (heavy housework, home repair, lawn work and gardening), factor 2 (sports and recreation), factor 3 | **Internal Consistency:** Cronbach's alpha α= 0.68 indicating low internal consistency<br><br>**Test-retest, Inter-rater, Intra-rater:** | |

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| | | (light housework and caring for another person) and factor 4 (leisure and occupational activities) that accounted for 64% of the physical activities' total variance. | Test-retest reliability overall ICC=0.87 | |