

Research Summary - Timed Motor Test (TMT) - Lower Limb and Walking

<p>Author Year Research Design Setting</p>	<p>Demographics and Injury Characteristics of Sample</p>	<p>Validity</p>	<p>Reliability</p>	<p>Responsiveness Interpretability</p>
<p>Chafetz et al. 2004 Cross-sectional Shriners Hospitals for Children, Philadelphia, Pennsylvania, USA</p>	<p>N=11 Age: 9.6±3.5, range 8-14 yrs old 5 female, 6 male 9 completed the 6 tasks with and without thoracolumbosacral orthoses (TLSO) 4 out of 9 subjects participated in test-retest reliability testing. Inclusion criteria: Medically stable, have an SCI at C7 (bilateral 3 of 5 with manual muscle testing) or lower, be manual wheelchair dependent All patients had thoracic injuries and scoliosis.</p>	<p>Tested to evaluate if the TMT is able to discriminate between groups with and without Thoracolumbosacral orthoses: Donning shirt: F value=10.98 (P<.05) Donning pants: F value=8.89 (P<.05) Even Transfers: F value=18.74 (P<.01) Uneven Transfers: F value=16.13 (P<.01) Propelling down hall: F value=16.61 (P<.001) Propelling up a ramp: F value=4.15 (P=.08)</p>	<p>ICC=0.30 (donning pants) to 0.92 (wheelchair propulsion down the hall) Intra-tester: 5 trials were completed for each task, except wheelchair skills where only 3 were completed. Using 8 videotaped sessions, intra-tester and inter-tester reliability was determined: Intra-tester Video: ICC=0.73 (even transfers) to 0.95 (donning a shirt and wheelchair propulsion down a hall) Inter-tester Video: ICC=0.71 (even transfers) to 0.95</p>	<p>Interpretability: See Table 2. Measured times during TMT (in seconds) for wearing or not wearing a TLSO</p>

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