

Reviewer ID: Jeff Tan/Matthew Quérée																															
Type of Outcome Measure: Timed Motor Test (TMT)			Total articles: 1																												
Author ID Year	Study Design	Setting	Population (sample size, age) and Group																												
Chafetz et al. 2004	Cross-sectional study	Shriners Hospitals for Children, Philadelphia, Pennsylvania	<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.</p> <p>Inclusion criteria: Medically stable, have an SCI at C7 (bilateral 3 of 5 with manual muscle testing) or lower, be manual wheelchair dependent</p> <p>All patients had thoracic injuries and scoliosis. Average curve was 32.1±21.0°</p>																												
1. RELIABILITY																															
Author ID	Internal Consistency	Test-retest, Inter-rater, Intra-rater																													
Chafetz et al. 2004	No data available	<p>ICC=0.30 (donning pants) to 0.92 (wheelchair propulsion down the hall)</p> <p>Intra-tester: 5 trials were completed for each task, except wheelchair skills where only 3 were completed.</p> <p>ICCs for intra-tester reliability by grouping of trials:</p> <table border="1"> <thead> <tr> <th>Activity</th><th>Trials 1-3</th><th>Trials 3-5</th><th>3 fastest trials</th></tr> </thead> <tbody> <tr> <td>Donning shirt</td><td>0.64</td><td>0.61</td><td>0.73</td></tr> <tr> <td>Donning pants</td><td>0.66</td><td>0.58</td><td>0.74</td></tr> <tr> <td>Even transfers</td><td>0.60</td><td>0.57</td><td>0.69</td></tr> <tr> <td>Uneven transfers</td><td>0.70</td><td>0.81</td><td>0.74</td></tr> <tr> <td>Propelling down hall</td><td>0.81</td><td>--</td><td>--</td></tr> <tr> <td>Propelling up a ramp</td><td>0.87</td><td>--</td><td>--</td></tr> </tbody> </table> <p>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 (donning a shirt and wheelchair propulsion down a hall)</p>		Activity	Trials 1-3	Trials 3-5	3 fastest trials	Donning shirt	0.64	0.61	0.73	Donning pants	0.66	0.58	0.74	Even transfers	0.60	0.57	0.69	Uneven transfers	0.70	0.81	0.74	Propelling down hall	0.81	--	--	Propelling up a ramp	0.87	--	--
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2. VALIDITY																															
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Chafetz et al. 2004	<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)</p>																														

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)

3. RESPONSIVENESS – no data available

4. FLOOR/CEILING EFFECT – no data available

5. INTERPRETABILITY

Author ID Interpretability

Chafetz et al. 2004 Measured times during TMT (in seconds) for wearing or not wearing a TLSO:

Activity	TLSO mean time(s)	No TLSO mean time(s)
Donning shirt	17.88	13.51
Donning pants	47.70	44.90
Even transfers	7.46	5.54
Uneven transfers	8.84	6.67
Propelling down hall	12.19	11.58
Propelling up a ramp	11.11	10.62