Last updated: May 6th, 2024

Author Year Country Research Design Setting	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiveness Interpretability
<u>Sato et al. 2023</u> Japan Validity Study Rehabilitation hospital	N = 30 (5F) Mean age: 63.8 ±10.7 years, Tetraplegia = 17 6 AIS A, 0 AIS B, 8 AIS C, 16 AIS D. Time since injury 1142 ±1720.7 days	Moderate to high correlation coefficient between the trunk assessment scale for spinal cord injury (TASS) and the WISCI II (r=0.67 (0.41-0.83)) Construct validity for WISCI II with trunk control test (TCT-SCI) was r= 0.42 (0.14-0.71)		
Sinovas-Alonso et al. 2023 Spain Observational, cross-sectional Biomechanics and Technical Aids Unit of the National Hospital for	iSCI N= 35 (24M) Mean age: 35.5(17.2) Non-SCI N = 50 (19M) Mean age: 34.6 (15.2)	Self-selected WISCI II levels showed good correlation with the spinal cord injury gait deviation index (SCI- GDI) (r=0.521) Maximum WISCI II levels had no significant correlations with the SCI-GDI (p=0.013)		

Research Summary - Walking Index for Spinal Cord Injury (WISCI) - Lower Limb and Walking

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Paraplegics of Toledo, Spain				
Willi et al. 2023 Switzerland Multicenter- observational study	N=50 Age range: 18-79 (52.6 ±16.2 years) Tetraplegic = 24 Paraplegic = 26; 2 AIS A, 0 AIS B, 7 AIS C, 41 AIS D Years since injury = 6.11 ± 9.8	Construct validity: Moderate relationship with the 2MWT, r=0.571 (0.356-0.784)		
<u>Kahn et al. 2020</u> USA	N= 12 (11M, 1F) Mean age: 55.41± 11.65 years (32-73) Chronic motor SCI 2 AIS C, 10 AIS D Level of injury: 7 cervical, 5 thoracic	Convergent validity : For the WISCI II with the functional gait assessment (FGA) was high (spearman's rho= 0.74, p=0.006)		

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	Years since injury = 1.7 to 29.7 (7.8 ± 7.8)			
Calhoun et al.	N=52 (22M, 30F) Age range: (2-17)		Intra-rater reliability ICC=0.997, CI=0.995- 0.998	
<u>2017</u> USA	Tetraplegic=14 Paraplegic=38		Inter-rater reliability ICC=0.97, CI=0.95-	
Mixed methods	AIS: 3A, 3B, 9C, 16D, 21Unknown		0.98	
	Neurological level: 5 C1-C4, 2 C5-C8, 24 T1- S5, 21 Unknown			
<u>Scivoletto et al.</u> <u>2014</u>	N=33 (28M, 5F) Mean age: 44 years		Intra-rater reliability =0.975-0.999	Responsiveness: No data available
Test-Retest analysis, calculation of	AIS: 33D 32 AIS-D, 1 AIS-C		Maximum WISCI II entire group: ICC=0.996	Floor/Ceiling Effect: No data available Interpretability
reliability and smallest real difference (SRD)	Injury level: 20 cervical, 8 thoracic, 5 lumbar		Maximum WISCI II Tetraplegics (n=20): ICC=0.994	SEM (WISCI II) for tetraplegics = 0.401 (N=20); for paraplegics

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SCI unit of a rehabilitation hospital	Median time since SCI onset = 40 days		Maximum WISCI II Paraplegics (n=13):ICC=0.992	= 0.437 (N=13); for both groups = 0.318.
	Incomplete SCI, subacute and chronic			MDC for tetraplegics = 1.147 (N=20); for paraplegics = 1.682 (N=13); for both groups = 0.883
Taraburalla at al	N=23 (14M)		Intra-rater ICC = 0.95, p<0.005	Responsiveness: ES = 0.07
<u>Tamburella et al.</u> <u>2014</u> Serial cross-	Mean age 48.27 SD = 15.94			Floor/Ceiling Effect: No data available
sectional study	Mean time since injury = 16.43 months, SD = 19.03			Interpretability: SEM = 0.73, MDC95 = 0.02, %MDC = 13.0
<u>Ovechkin et al.</u> <u>2013</u>	N = 11 (3F, 8M) Age: 48±19	AIS: Spearman rho = 0.71 (p< 0.05)		
USA	AIS A: 4 AIS C: 1 AIS D: 6	FIM motor score: Spearman rho =0.69 (p< 0.01)		
Prospective cohort study		SCIM total score: Spearman rho = 0.74 (p<0.01)		

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University of Louisville		SCIM mobility score: Spearman rho =0.84 (p<0.01)		
<u>Calhoun et al.</u> <u>2012</u> USA Pilot study	N=10 (8M, 2F) Age range: 5-13 years Incomplete: 7 Complete: 3	Correlation between WISCI II and SCIM indoor mobility item: r=0.96	Intra-rater reliability: ICC=0.98, CI=0.95-0.99 Inter-rater reliability: ICC=0.97, CI=0.96-0.99	
Shriners Hospitals for Children, Clinical Research Department	AIS Score: 3 A, 1 B, 1 C, 5 D			
Burns et al. 2011 USA Test-retest for some	N=76 (60M, 16F) Mean age = 43.4±13.8 Mean years from injury = 6.32±5.99 Chronic SCI	To assess convergent validity for both self- selected and maximum WISCI levels and walking speeds, their relationships with	ICC for WISCI: SS WISCI – level: 0.994 SS WISCI – speed: 0.930	Please see table below.
participants	45% Paraplegia 55% Tetraplegia	LEMS, UEMS, and MMT were assessed.	Max WISCI – level: 0.995	

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Regional Spinal Cord Injury Center of the Delaware Valley and Magee Rehabilitation Hospital, Philadelphia, PA	Injury etiology: 32% motor vehicle accidents 26% falls 13% sports/diving incidents 11% acts of violence 18% other The distribution of AIS grades was A (3%), B (1%), C (8%), and D (88%), which reflects that participants had to ambulate a minimum of 10 m to be assigned a WISCI level and participate.	For both maximum WISCI and self- selected WISCI, the strongest correlations were with LEMS: p=0.717 and p=0.704, respectively. There were profound differences when the composite cohort was split into tetraplegic (n=42) and paraplegic (n=34) cohorts. For tetraplegic participants, there were also significant correlations between WISCI levels and UEMS: p=0.496 (self-selected) p=0.502 (maximum) Spearman correlations:	Max WISCI – speed: 0.971	

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		Btwn Self-selected WISCI level and:		
		 ASIA UEMS (tetraplegic only, N=41): 0.496 (p<0.0001) ASIA LEMS (N=76): 		
		0.704 (p<0.0001) 3. Manual Muscle Test (Upper & Lower Extremity) (N=75): 0.647 (p<0.0001)		
		Btwn Self-selected		
		WISCI speed and:		
		4. ASIA UEMS (tetraplegic only, N=41): 0.491 (p<0.05)		
		5. ASIA LEMS (N=76): 0.509 (p<0.05)		
		6. Manual Muscle Test (Upper & Lower Extremity) (N=75): 0.494 (p<0.0001)		

Author Year Country Research Design Setting	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiveness Interpretability
		 Btwn Max WISCI level: ASIA UEMS (tetraplegic only, N=41): 0.502 (p<0.0001) ASIA LEMS (N=76): 0.717 (p<0.0001) Manual Muscle Test (Upper & Lower Extremity) (N=75): 0.663 (p<0.0001) 		
		Btwn Max WISCI speed: 10. ASIA UEMS (tetraplegic only, N=41): 0.469 (p<0.0001) 11. ASIA LEMS (N=76): 0.572 (p<0.0001) 12. Manual Muscle Test (Upper & Lower Extremity) (N=75): 0.539 (p<0.0001)		

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			More detai				
			paraplegic, values avai	/tetraplegic			
			article.	lable in			
			When the	ontiro			
			cohort was				
			walking sp	-			
			correlated				
			significantl	ly with			
			MMT, LEMS	S, and			
			•	ximum and			
			and self-se	lected).			
	SRD for WISC	CI Level a	nd Walking				
			SEM	SRD			
	SS WISCI	Level	0.283	0.785			
		Speed	0.091	0.254 m/s	S		
	Max WISCI	Level	0.215	0.597			
		Speed	0.059	0.163 m/s			
	WISCI = Walk	ing Index	for Spinal C	ord Injury			
	SS = Self-Sele	cted					
	Max = Maxim	um					

Author Year Country Research Design Setting	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiveness Interpretability
	SEM = Standard Error o SRD = Smallest Real Di			
	N = 32 SCI (25M, 7F) Mean age: 47.9± 12.8 yrs	Spearman's correlations with other walking scales: 1. (all P<0.01)		Responsiveness:Nodata availableCeiling effect = 44.8%((/ 2%) of subjects
<u>Lemay &</u> <u>Nadeau, 2010</u> Canada	Neurological level: 15 paraplegic, 17 tetraplegic	 2. BBS: 0.816 3. SCI-FAI parameter: 0.761 4. SCI-FAI assistive devices: 0.980 		(44.8% of subjects reached maximal score on the scale)
Longitudinal An intensive rehabilitation center in Montreal,	Level of injury: 17 cervical, 10 thoracic, 5 lumbar Type of injury: 21 traumatic, 11 non- traumatic	 SCI-FAI mobility: 0.630 2MWT: 0.749 10MWT: 0.795 TUG: -0.799 		Interpretability: No data available
Canada (Institut de readaptation Gingras-Lindsay de Montreal)	Inclusion criteria: (1) Adults with SCI AIS D either of traumatic or nontraumatic etiology and (2) the ability to walk 10m independently with or without			

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	upper-extremity assistive devices.			
Marino et al.	N=26 (9 US, 17 Italy) (16M, 10F)		Intra-rater reliability (self-selected (SS), maximum) ICC=1.00	
<u>2010</u> USA	Mean age: 46.4 <u>+</u> 19.3 years		Interrater reliability: ICC=1.00 (self selected WISCI)	
Reliability study	Time post-injury: 8-336 months, mean: 58 months		ICC=0.98 (maximum WISCI)	
Regional Spinal Cord Injury Center of the Delaware Valley	Traumatic SCI = 18 Spinal cord lesions = 8			
And the the Spinal Unit	Neurological levels: 7 cervical, 11 thoracic, 8 lumbar			
	AIS: 23D, 2A, 1C			
<u>Marino et al.</u> <u>2010</u> USA/Italy	N = 26 SCI (16M, 10F; 9 from USA, 17 from Italy)		Intraclass correlation: coefficients for intrarater reliability	
			were 1.00 for self- selected and	

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Reliability study Study subjects were recruited from (1) the Regional Spinal Cord Injury Center of the Delaware Valley, a partnership of Thomas Jefferson University Hospital and Magee Rehabilitation Hospital, Philadelphia, PA, and (2) the Spinal Unit, IRCCS Santa Lucia, Rome, Italy.	Mean age: 46.4±19.3 yrs Neurological levels: 7 cervical, 11 thoracic, 8 lumbar AIS A: 2 AIS C: 1 AIS D: 23		 maximum WISCI levels for both therapists. Interrater reliability: was 1.00 for self- selected WISCI and 0.98 for maximum WISCI. Bland-Altman plots for differences in time show that the time for the 10-m walk at SS WISCI varied more from 1 day to the next than between raters on the same day. The difference in time for the two walks on the same day (interrater) was within 25% of the average time in all cases, whereas the difference in time 	

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Setting Wirz et al. 2010 Switzerland Prospective study Spinal Cord Injury Center of the Balgrist University	N = 42 (33M, 9F) Mean age: 49.3±11.5 Mean time since injury (SD) = 66.5 months (66.2) AIS A: 2 AIS A: 2 AIS B: 2 AIS C: 35 AIS D: 3	 WISCI II correlation with: Berg Balance: r=.82 (P<.001) Falls total: r=03 (P=.84) SCIM mobility score: r= .81 (P<.001) 10MWT: r=.81 (P<.001) FES-I: r=71 (P<.001) Motor scores: r=.66 	from days 1 to 2 (intrarater) exceeded 25% of average time on several occasions. There was more variability in times for the maximum WISCI than the SS WISCI for both days and raters	Responsivness: No data available Floor/Ceiling Effect: No data available Interpretability: WISCI mean (SD) score: 16.9 (3.4) Median (range): 18.5 (11-20)
Hospital, Zurich, Switzerland	Inclusion criteria: Received either inpatient rehabilitation or out- patient physiotherapy	(P<.001)		

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	between January 1998 and September 2007. Experienced an SCI at least 1 year prior to enrollment. Able to walk for a minimum distance of 15 m			
Ditunno et al. 2008 Denmark, Germany, Italy, USA Prospective cohort	N= 150 (USA = 112; Europe = 38) AIS A: Tetra = 18, Para = 41 AIS B: Tetra = 12, Para = 7 AIS C: Tetra = 22 , Para = 10 AIS D: Tetra = 32, Para = 8	Monotonic Directional Improvement (MDI) 77 participants showed improvement, 62/77 participants demonstrated MDI. 10/15 participants failed to show MDI because a walking device was removed too early. Total Group Spearman correlation w/Lower Extremity Motor Score (LEMS): Initial = 0.47 [P < 0.001]		

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		Improvement = 0.59 [P < 0.0001]		
		Final for those who progressed = 0.71 [P < 0.001]		
		USA Group Spearman correlation w/LEMS:		
		Initial = 0.39 [P < 0.001]		
		Final = 0.91 [P < 0.001] Improvement = 0.54		
		[P < 0.001]		
		Final for those who progressed = 0.79 [P < 0.001]		
		European Group Spearman correlation w/LEMS:		
		Initial = 0.62 [P < 0.001]		
		Final = 0.89 [P < 0.001] Improvement = 0.79 [P < 0.001]		
		Final for those who progressed = 0.42 [P = 0.118]		

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		Total Group Spearman correlation w/Locomotor Functional Independence Measure (LFIM): Initial = 0.89 [P < 0.001] Final = 0.76 [P < 0.001] Final for those who progressed = 0.78 [P < 0.001]		
		USA Group Spearman correlation w/LFIM: Initial = 0.89 [P < 0.001] Final = 0.79 [P < 0.001] Final for those who progressed = 0.84 [P < 0.001]		
		European Group Spearman correlation w/LFIM: Final = 0.72 [P < 0.004]		

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		Final for those who progressed = 0.72 [P = 0.004]		
<u>Jackson et al.</u> <u>2008</u> A subcommittee of international experts evaluated locomotion measures	N= 54 expert raters	Content Validity: Expert Evaluations (54 votes): Valid or Useful: 52% Useful but requires validation: 43% Not useful or valid for research: 6%		
<u>Ditunno et al.</u> <u>2007</u>	N = 146 (114M, 32F) Mean age: 32 (16-69)	Correlation with Berg Balance Scale (BBS): r=0.90		Responsiveness: No data available
USA Single-blinded, paralleled- group,	Level of Injury: 58 cervical, 18 thoracic, 24 lumbar AIS: 36B, 90C, 20D	Correlation with Lower Extremity Motor Score (LEMS): r=0.85		Interpretability: N=142 Mean WISCI (0-20) score: 1.49
prospective multicenter RCT clinical trial	Incomplete spinal cord injury patients who had a Functional Independence Measure locomotor	Correlation with FIM locomotor score (LFIM): r=0.89		Floor/ceiling effect At 6 months, the walking speed

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6 regional SCI inpatient rehabilitation centers	score for walking of < 4 on entry	Correlation with Functional Independence Measure: r=0.77 Correlation with 50- foot walking speed (50FW-S): r=0.85 Correlation with 6- minute walking distance (6MW-D): r=0.79		showed a linear trend to the point of 1 – 1.5 meters/second, and subsequently, a ceiling effect on the WISCI, with walking speed continuing to improve after the WISCI was at or near its maximum value.
		Spearman correlation w/LEMS [all P < 0.001] At 3 months: r = 0.85 At 6 months: r = 0.85 At 12 months: r = 0.88 Spearman correlation w/6-Minute Walk Test [all P < 0.001] At 3 months: r = 0.76 At 6 months: r = 0.68 At 12 months: r = 0.69		

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		Spearman correlation w/50-foot Walking		
		Speed [all P < 0.001]		
		At 3 months: r = 0.78		
		At 6 months: r = 0.85		
		At 12 months: r = 0.77		
		Spearman correlation w/Berg Balance Scale		
		(BBS) [all P < 0.001]		
		At 3 months: r = 0.91		
		At 6 months: r = 0.89		
		At 12 months: r = 0.92		
		Spearman correlation w/6-Minute Walk Test [all P < 0.001]		
		At 3 months: r = 0.76		
		At 6 months: r = 0.68		
		At 12 months: r = 0.69		
		Spearman correlation		
		w/50-foot Walking Speed [all P < 0.001]		
		At 3 months: r = 0.78		
		At 6 months: r = 0.85		

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		At 12 months: r = 0.77		
		Spearman correlation w/Functional Independence Measure (FIM) [all P <		
		0.001] At 3 months: r = 0.73		
		At 5 months: $r = 0.73$ At 6 months: $r = 0.77$		
		At 12 months: r = 0.74		
		Spearman correlation w/FIM locomotor score [all P < 0.001] At 3 months: r = 0.92 At 6 months: r = 0.89 At 12 months: r = 0.88		
		Predictors of the WISCI at 12 months (Spearman's rho)		
		Baseline:		
		LEMS = 0.73		
		BBS = 0.47		
		FIM Locomotor = 0.30		

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Kim et al. 2007 Prospective cohort Academic	N = 50 (86%M) Mean age: 47.4 +- 13.2 Ambulatory subjects with traumatic	FIM = 0.12 3 Months: LEMS = 0.81 BBS = 0.84 FIM Locomotor = 0.79 FIM = 0.63 Speed = 0.71 Distance = 0.77 6 Months: LEMS = 0.86 BBS = 0.89 FIM Locomotor = 0.85 FIM = 0.69 Speed = 0.81 Distance = 0.80		Reponsiveness: No data available Floor/ceiling effect: Ceiling effect: 48% (24/50) subjects at
medical center.	incomplete SCI			greater than 1 year post injury has WISCI

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				=20 at entry into the study.
				Interpretability: No data available
<u>Musselman,</u> <u>2007</u>	N = 19 Incomplete SCI			1. MCID: 0.06 m/s 2. SEM: 0.05 m/s
Canada	Mean age = 42			3. Effect Size: 0.46
Determining clinical significance via distribution- based and anchor-based approaches	Time since injury range = 0.6-28.2 years Mean = 6.97 years			
Center for Ambulatory Rehabilitation, Research, and Education at the University of Alberta				

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<u>Van Hedel et al.</u>	N = 22 (18M, 4F) Mean age = 45.5±16.7 years (range 17 – 78 years)	Spearman correlation w/Lower Extremity Motor Score Within 1 month: r = 0.49 [P=.02] After 3 months: r =		Responsiveness: 4 time intervals: 1) within first month; 2) after 3 months 3) after 6 months; 4)
2006 Europe	Incomplete spinal cord injury patients who were able to stand or walk within the first month after	0.50 [P=.02] After 6 months: r = 0.38 [P=.08] After 12 months: r = 0.32 [P=.15]		after 12 months: Friedman's test (α = 0.05) between 4 intervals: DF = 3, F _r =
Longitudinal study; analyzed at 1, 3, 6, and 12 months after injury	SCI. Level of Injury: Cervical =13; Thoracic = 1; Lumbar = 7; Sacral = 1	Spearman correlation w/6-Minute Walk Test Within 1 month: r =		28.7, P < 0.001 Pair-wise comparisons via Wilcoxon's signed
European Multicenter Study of Human Spinal Cord		0.78 [P<.001] After 3 months: r = 0.28 [P=.20] After 6 months: r = 0.36 [P=.10]		rank test: Between intervals 1 and 2: P = 0.005
Injury		After 12 months: r = 0.36 [P=.10] Spearman correlation w/10-Meter Walk Test		Between intervals 2 and 3: P = 0.18 Between intervals 3 and 4: P = 0.31
		Within 1 month: r = - 0.79 [P<.001]		

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		After 3 months: r = - 0.21 [P=.35] After 6 months: r = - 0.37 [P=.09] After 12 months: r = - 0.37 [P=.09]		Ceiling effect: All but one of the iSCI subjects qualified up to the max WISCI II score of 20 Interpretability: WISCI II mean (SD) score: Within 1 st month: 16 (4.6) After 3 months: 19 (2.4)
				After 6 months: 20 (0.9) After 12 months: 20 (0.2)
<u>Morganti et al.</u> <u>2005</u> Italy	N=284 (184M, 100F) Mean age: 50.4 <u>+</u> 19.3 (12-86) Mean time post-injury: 56.9 <u>+</u> 43.9 days	Correlations between: 1. WISCI and SCIM: r=0.97 2. WISCI and FIM: r=0.7	Inter-rater reliability for the WISCI II: r = 1.00 (p<0.001)	

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Retrospective examination Large rehabilitation hospital in center of Italy Rehabilitation hospital in Italy	Non-traumatic = 177 Rraumatic = 107 Lesion Level: 81 Cervical, 148 Thoracic, 55 Lumbar-sacral AIS: 84A, 19B, 129C, 52D Concurrent validity sample: N=76 Traumatic or non traumatic SCLs admitted between 1997-2001. Non-traumatic etiology was present in the majority of the patients (177/284): inflammatory (40), vascular (36), neoplastic (39), degenerative (62); traumatic lesions (107/284): car accident	 3. WISCI and LEMS=0.58 4. WISCI and Barthel Index (BI): r=0.67 5. WISCI and RMI: r=0.67 <i>Groups:</i> Lower Extremity Motor Score (LEM) and WISCI: r=0.58 (p<0.001) (subgroup of 200 patients) Locomotion outcome at discharge - LEMS and WISCI (eliminating levels 0 and 20): r=0.57 (p<0.001) Levels at discharge for young patients – LEMS and WISCI: r=0.50 (p<0.01) Levels at discharge for older patients – LEMS 		

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	(38), motorcycle accident (15), sport accident (7), act of violence (6), suicide attempts (6), and accidental falls (31).	and WISCI: r=0.64 (p<0.01) Discharge for non- trauma - LEMS and WISCI: r= 0.58 (p<0.01) Discharge for trauma - LEMS and WISCI: r= 0.49 (p<0.01) WISCI compared to; Rivermead Mobility Index (RMI): ρ = 0.67 Barthel Index (BI) ρ = 0.67 Spinal Cord Independence Measure (SCIM): ρ = 0.97 Functional Independence Measure (FIM): ρ = 0.70 RMI and BI: ρ =0.6 RMI and SCIM: ρ =0.75 RMI and FIM: ρ =0.9		

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		BI and SCIM: ρ=0.7		
		BI and FIM: ρ=0.7		
		SCIM and FIM: ρ=0.8		
		All p < 0.001		
		WISCI (walking with assistance) levels at discharge and AIS at admission: AIS A vs B: r=0.573 AIS AB vs C: r=0.07 AIS AB vs D: r=0.002 AIS C vs D: r=0.1		
		WISCI (independent walking) levels at discharge and ASIA at admission: AIS A vs B: r=0.02		
		AIS AB vs C: r=<0.001		
		AIS AB vs D: r=<0.001		
		AIS C vs D: r=<0.001		
		WISCI scale is more sensitive scale for documenting change		

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		in levels of walking along a hierarchical order, integrating devices, braces and physical		
<u>Ditunno &</u> <u>Ditunno, 2001</u> USA	N=103 SCI AIS classification: A=14 B=18 C=52 D=19	Correlation of ASIA grades with WISCI levels were significant: at initial ambulation (p<0.03) and at maximum recovery of walking function (p<0.001).		
Retrospective analysis Clinical setting		Initial ASIA grades and final WISCi levels correlated at p<0.001. Improvements occurred in one		
Ditunno et al. 2000 8 SCI centers in Australia, Brazil,	N = 24 individuals (8 teams of three composed of health professionals) created this measure.	direction in 94% of subjects. The WISCI was analyzed to examine whether it appears to measure the	100% agreement across all 24 individual international	

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Canada, Korea, Italy, the UK, and the USA Methodological study using a modified Delphi technique		construct that it purports to measure. Pilot data at two SCI centers: W = 0.843 (P<.001) Across all eight SCI centers: International individual data sets: W=0.860 (P<.001). Team data sets: W = 0.872 (P<.001) Sub-group possible pairs of ranking: Clinical physician and Spinal cord injury expert: ρ =0.968 (P<.01). Physical therapist and Spinal cord injury expert: ρ =0.944 (P<.01). Physical therapist and Clinical physician: ρ =0.974 (P<.01)	participants and all eight teams.	

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		Group Consensus: Using a walker is less impaired than parallel bars. Item 10 was eliminated as there was unacceptable variance.		
		Using a brace, irrespective of one or two canes, reflects a more severely impaired individual than someone without braces.		
		Functional Independence Measure (FIM): ρ= 0.765 (P<.001). 80% of WISCI items fell into two of the FIM categories.		