Author, Year			
Study Design	Population Characteristics	Methods	Outcomes
Setting			
Cathomen et al. 2023 Cohort Study	N: 361 Level: Paraplegia Mean age: 40 % Female: 20.5%	Objective: To assess walking function using an established outcome measure featuring a continuous scale. Outcome Measure: 6- minute walk test, 10-m walk test, Spinal Cord Independence Measure III, mobility items 12-14, Walking Index for Spinal Cord Injury	Results: The group of non-walkers showed no muscle function early after injury in any myotome (motor score median [range] = 0 [0-1]), compared to indoor walkers with residual muscle function in myotomes L2 (motor score median [range] = 1 [0-5]) and L3 (motor score median [range] = 2 [0-4]).
Switzerland			Indoor walkers were thereby characterized by a lack of muscle function of the MI leg in distal myotomes L4, L5, and S1 (motor score median [range] = 0 [0-4]) ≤15 days after injury.
	N: 640	Study Duration:	Results:
Van Middendor p et al. 2011 Longitudin al Cohort Study Europe	Level: AIS - 241 A; 63B; 82C; 171D; 5E Mean Age (SD): 45 ± 17 (18-92) % Female: 21%	longitudinal cohort study of adult patients with traumatic spinal cord injury, with early (within the first 15 days after injury) and late (1-year follow-up) clinical examinations, who were admitted to one of 19 European centres between July 2001, and June 2008 Outcome Measures: SCIM A clinical prediction rule based on age and neurological variables was derived from the international standards for neurological classification of spinal cord injury with a multivariate logistic regression model Objective:	A combination of age, motor scores of the quadriceps femoris (L3), gastrocsoleus (S1) muscles, and light touch sensation of dermatomes L3 and S1 showed excellent discrimination in distinguishing independent walkers from dependent walkers and non-walkers The prediction rule distinguished well between those patients who were able to walk independently and those who were not (AUC 0.956, 95% CI 0.936–0.976, p<0.0001) Prediction Rule: - Four neurological predictors: - Quadriceps femoris muscle grade (L3)

		Developed a simple clinical prediction rule derived from data from a large prospective European database that can be used by physicians to counsel patients with traumatic spinal cord injury and their families during the initial phase after injury	 Gastrocsoleus muscle grade (S1) Light Touch Score at L3 Light Touch Score at S1 Age
	N: 1191 (105)	Objective:	Results:
	Level: AIS: 64 C, 41 D Mean Age (SD): 45 + 17 (18-92) % Female: 21%	To determine the effect of age and initial neurologic status on recovery of ambulation in patients with motor incomplete tetraplegia.	Age and initial ASIA classification are associated with recovery of independent ambulation All ASIA D patients have a good prognosis for
		Study Duration:	ambulation, regardless
Burns et al. 1997 Inception Cohort Study USA		Inception cohort study of acute SCI patients admitted between January 1984 - January 1993, within 72 hours of admission. Outcome Measure: Ambulatory Status at time of discharge from inpatient rehab. For this study, a patient was considered ambulatory if able to walk 50 feet without assistance from another person. The use of ambulatory aids and orthoses was permitted.	of age. Older patients with ASIA C tetraplegia demonstrate less functional motor recovery than younger patients. Results (p < 0.0001, x2 test): 30/33 ASIA C subjects younger than 50 became ambulatory by discharge 13/31 ASIA C subjects older than 50 became ambulatory by discharge All ASIA D subjects became ambulatory by discharge
	N: 886	Objective:	Results:
Van Hedel et al. 2009 Prospective cohort Europe	Level: AIS - 413 A, 113 B, 137 C, 223 D Mean Age (SD): ASIA A, 39 (18) ASIA B, 42 (18) ASIA C, 48 (20)	The aim of the present study was to assess gait speeds that distinguished between levels of functional ambulation in subjects with a spinal cord injury. Study duration:	1. In general, participants in a higher category walk at higher speeds. For each time point, the walking speed differed between the ambulatory categories (for all, P <.001)
	ASIA D, 47 (17) % Female: ASIA A 19%; ASIA B 27;	Patients within 2 weeks of injury were prospectively	Speeds that separate ambulation Categories:

	T		1	
	ASIA C 32; ASIA D 22	assessed across 18 European centres between 2001 - 2007. Assessments occurred at 1, 3, 6, and 12 months after		 a. Indoor walker, wheelchair dependent: 0.15 ±0.08m/s b. Assisted walker:
		SCI		0.44±0.14m/s
		Outcome Measures: SCIM II		c. No aid walkers: 0.70±0.13m/s
		10MWT	3.	Distinguishing between
		6MWT		minor and strong dependence on walking aids categories:
				a. Minor dependence for aids (1 cane, leg orthosis): 0.64 m/s @ 3 months, 0.68 m/s @ 6 months
				b. Strong dependence for aids: 0.44 m/s
	N: 90	Objectives: The aims of	Re	sults:
	Level:	this study on people with	1.	Participants with tetra-
Zörner et al. 2010	Tetraparesis: 4 C2; 5 C4; 17 C4; 20 C5; 5 C6 AIS (subacute phase): 20C, 31 D	motor incomplete SCI (miSCI) were: (1) to rank the strongest single predictors and predictor combinations of later walking capacity; (2) to		or paraparesis achieved average WISCI II scores of 13.6 ± 8.4 (median = 20) or 17.9 ± 4.1 (median = 20) respectively, six months after injury.
	AIS (chronic phase): 1B, 5C, 45 D Paraparesis: 20 thoracic; 19 lumbar	develop a reliable algorithm for clinical prediction; and (3) to identify subgroups with only limited recovery of walking function	2.	Within 6 min (6MWT), participants with tetraparesis were able to walk a mean distance of 284 ± 235 m; paraparetic
Prospective cohort	AIS (subacute	Study Duration:	3.	subjects: 376 ± 209 m. For participants with
Europe	phase): 19 C, 20 D AIS (chronic phase): 2 C, 35 D, 2E	Participants were selected from a prospectively gathered European		tetraparesis, results of the 6MWT (57% "functional" walkers)
	Etiology:	database and admitted between 2001 and 2005 to		were very similar to the
	Tetraparesis:	acute care and		WISCI II outcome (53%
	43 traumatic, 5 ischemic, 1 hemorrhagic, 1 disk herniation, 1 other Paraparesis: 28 traumatic, 6 ischemic, 1 hemorrhagic, 4	rehabilitation hospitals Outcome Measures: WISCI II, 6MWT, lower extremity motor score (LEMS)	4.	"independent" walkers) In contrast, 79% of the participants with paraparesis were scored as "functional" (6minWT), but only 64% as "independent" walkers (WISCI II)
	disk herniation		5.	Strongest correlations between single

	Mann Age (CD):	T	manadiatana tarritaaria.
	Mean Age (SD): Tetraparesis: 50.27 ± 16.17		predictors + outcome measures for walking function in tetra + paraplegia
	Paraparesis: 42.38 <u>+</u> 16.46		a. Pin prick: r=0.80
	% Female: Tetraparesis: 19.6%		i. WISCII: tetra: p<0.01, para: p<0.01
	Paraparesis: 30.8%		ii. 6MWT: tetra: p<0.01, para: p>0.01
			b. Light touch: r=0.69
			i. WISCI II: tetra: p<0.01, para p>0.01
			ii. 6MWT: tetra p<0.01. Para p>0.01
			 LEMS = best predictor of walking outcomes - correct prediction rates:
			a. Tetraparesis = 90% for WISCI II, 90% for 6MWT (p<0.01 both)
			b. Paraparesis = 67% for WISCI II, 90% for 6MWT (p<0.01)
			7. Strongest combined predictors
			a. 6MWT (functional vs non-functional walkers): LEMS and AIS most predictive
	N: 675	Objective:	Uses prediction models
	Level: AIS A&D 515;	To compare independent ambulatory outcomes in	from (see above extractions):
	B&C 160	AIS (ASIA [American Spinal	1. Van Middendorp
Phan et al.	Etiology: Assault 17; Fall 302; Sports	Injury Association] Impairment Scale) A, B, C,	2. Hicks
2019	129; Transport 181;	and D patients, as well as	Van Middendorp model:
Prospective Cohort	Other 34; Surgery 97	in AIS B+C and AIS A+D	1. AUCs for AIS A, B, C,
Study	Mean Age (SD):	patients by applying two existing logistic regression	and D were 0.730 (0.622-0.838), 0.691
Canada	AIS A&D 47.2(18); B&C 45.1 (18.6)	prediction models Study duration:	(0.533-0.849), 0.850 (0.771-0.928), and
	% Female: A&D 22%; B&C 21%	Individuals with traumatic SCI enrolled in the pan- Canadian Rick Hansen SCI	0.516 (0.320-0.711), respectively.

		Registry (RHSCIR) between 2004 and 2016 with complete neurologic examination and Functional Independence Measure (FIM) outcome data Outcome Measures: FIM locomotor score was used to assess independent walking ability at 1-year follow-up.	Hicks 1. 2. 3. Comp 1.	(95% confidence interval [CI]0.933-0.975 AUCs for B+C 0.833 (95% CI 0.771-0.895 model: AUC for AIS A, B, C, and D were 0.730 (0.621-0.839), 0.714 (0.565-0.863), 0.840 (0.747-0.933), and 0.519 (0.307-0.731), respectively AUCs for A+D = 0.950 (95% CI 0.928-0.971) AUCs for B+C = 0.821 (95% CI 0.754-0.887) aring Models: The difference in AUC between AIS A+D and AIS B+C cohorts was statistically significant using both the van Middendorp and Hicks models (p=.00038) When comparing between the two models, the difference of AUCs
				models, the
	N: 343	Objective:	Resul	ts:
Kay et al. 2007 Retrospecti ve Study	AlS A or B tetraplegia 135 A or B paraplegia 84 C tetraplegia 44	To investigate how injury level and American Spinal Injury Association Impairment Scale (AIS) grade at rehabilitation admission are related to walking at discharge after traumatic spinal cord	pa wir Als wa (P-	gnificantly more rticipants admitted th AIS grade C than S grade A or B injuries alked at discharge <.001) o AIS grade C traplegics at admission
USA	C paraplegia 16 D 64 Mean Age (SD):	injury (SCI). Study duration: Traumatic SCI Inpatients between January 1998 to	sig (P· 3. Fe	pliked at discharge, a gnificant difference <.001) wer AIS grade A or B tients walked at

42.1	May 2004 were		discharge than AIS grade
Avg time post	retrospectively studied		C (P<.001)
injury (SD):	Outcome Measures:	4.	Injury level was not
24 days	FIM instrument walking		significantly associated with walking at
% Female:	rating of 3 (moderate assistance) or higher at		discharge for
30%	discharge		participants with AIS grade C injuries (P=.756)
		5.	A logistic regression model showed that injury level was not associated with walking (P=.946) when data were adjusted for age and onset time.
		6.	The presence of Central Cord Syndrome was not associated with walking at discharge with an AIS grade C injury in this sample.
		7.	Participants with AIS grade D injuries at admission were more than twice as likely to walk as subjects with AIS grade C injuries (67.2% vs 28.3%, P.001)
		8.	A logistic regression model showed that admission AIS grade (D vs C) was associated with walking at discharge (P.001) when data were adjusted for age and onset time.
		9.	Among participants aged >50, non-significant association between age and walking while adjusting for neurological level and onset time (P=.810)
		10.	Significantly more participants younger than 50 walked than participants older than 50 (P=.0401)

	11.000		
	N: 278	Objective:	Proposed simplified prediction model: three
	Level	To revalidate an existing	variables:
	AIS	clinical prediction model for independent	- age at injury (<65 years
	A 113	ambulation (van	vs. ≥65 years),
	B 30	Middendorp et al. 2011)	- L3 motor score at
	C 55	using acute and long- term post-injury follow-up	admission, and
	74 D	data, and to investigate	- S1 light touch sensory score at admission.
	Mean Age (SD):	Study duration:	- The AUC was calculated
Hicks et al.	44(18)	Acute (0-15 days) and long	to be 0.866 (95%
<u>2017</u>	Avg time post injury (SD):	term follow up data (>12 months) were extracted	confidence interval
Prospective cohort	n/a	for traumatic SCI patients	0.816–0.916, p<.001), which is only slightly
Canada	% Female:	were prospectively	lower than that of the
	20%	obtained from the RHSCIR, between 2004	five-variable LR model
	2070	and 2014.	The fitted model yielded
		Outcome Measures:	85% overall classification accuracy, 79% sensitivity,
		The FIM locomotor score	and 90% specificity. The AUC
		was used to assess	was calculated to be 0.889
		independent walking ability	(95% confidence interval 0.846–0.933, p<.001)
		domey	0.0 10 0.333, p .001)
	N: 224	Objective:	Results:
	Level	To determine the effects	1. Post-locomotor training,
	AIS	of locomotor training on: (1) the International	a significant number of participants (28.1%)
	C 57		participarits (20.170)
	C 37	Standards for Neurological	classified as AIS grade C
	D 167	Standards for Neurological Classification of Spinal	classified as AIS grade C improved to AIS grade D
		Classification of Spinal Cord Injury examination;	improved to AIS grade D (9/32; P.001)
Rushnarat	D 167	Classification of Spinal	improved to AIS grade D (9/32; P.001) 2. 92% of the overall sample
Buehner et al. 2012	D 167 Mean Age (SD): 42.5 (15.9) Avg time post	Classification of Spinal Cord Injury examination; (2) locomotion (gait speed, distance); (3) balance; and (4) functional gait speed	improved to AIS grade D (9/32; P.001)
al. 2012	D 167 Mean Age (SD): 42.5 (15.9) Avg time post injury (SD):	Classification of Spinal Cord Injury examination; (2) locomotion (gait speed, distance); (3) balance; and (4) functional gait speed stratifications after chronic	improved to AIS grade D (9/32; P.001) 2. 92% of the overall sample remained unchanged
al. 2012 Prospective cohort	D 167 Mean Age (SD): 42.5 (15.9) Avg time post injury (SD): 2.45 (3.79)	Classification of Spinal Cord Injury examination; (2) locomotion (gait speed, distance); (3) balance; and (4) functional gait speed	improved to AIS grade D (9/32; P.001) 2. 92% of the overall sample remained unchanged (n=23 AIS grade C; n=109 AIS grade D) 3. Significant gains in gait
al. 2012 Prospective cohort study	D 167 Mean Age (SD): 42.5 (15.9) Avg time post injury (SD): 2.45 (3.79) % Female:	Classification of Spinal Cord Injury examination; (2) locomotion (gait speed, distance); (3) balance; and (4) functional gait speed stratifications after chronic incomplete spinal cord	 improved to AIS grade D (9/32; P.001) 2. 92% of the overall sample remained unchanged (n=23 AIS grade C; n=109 AIS grade D) 3. Significant gains in gait speed, ambulation
al. 2012 Prospective cohort	D 167 Mean Age (SD): 42.5 (15.9) Avg time post injury (SD): 2.45 (3.79)	Classification of Spinal Cord Injury examination; (2) locomotion (gait speed, distance); (3) balance; and (4) functional gait speed stratifications after chronic incomplete spinal cord injury (SCI).	improved to AIS grade D (9/32; P.001) 2. 92% of the overall sample remained unchanged (n=23 AIS grade C; n=109 AIS grade D) 3. Significant gains in gait speed, ambulation distance, and balance occurred after locomotor
al. 2012 Prospective cohort study	D 167 Mean Age (SD): 42.5 (15.9) Avg time post injury (SD): 2.45 (3.79) % Female:	Classification of Spinal Cord Injury examination; (2) locomotion (gait speed, distance); (3) balance; and (4) functional gait speed stratifications after chronic incomplete spinal cord injury (SCI). Study duration: Acute (0-15 days) and long term follow up data (>12	improved to AIS grade D (9/32; P.001) 2. 92% of the overall sample remained unchanged (n=23 AIS grade C; n=109 AIS grade D) 3. Significant gains in gait speed, ambulation distance, and balance occurred after locomotor training regardless of
al. 2012 Prospective cohort study	D 167 Mean Age (SD): 42.5 (15.9) Avg time post injury (SD): 2.45 (3.79) % Female:	Classification of Spinal Cord Injury examination; (2) locomotion (gait speed, distance); (3) balance; and (4) functional gait speed stratifications after chronic incomplete spinal cord injury (SCI). Study duration: Acute (0-15 days) and long term follow up data (>12 months) were extracted	 improved to AIS grade D (9/32; P.001) 2. 92% of the overall sample remained unchanged (n=23 AIS grade C; n=109 AIS grade D) 3. Significant gains in gait speed, ambulation distance, and balance occurred after locomotor training regardless of initial AIS classification
al. 2012 Prospective cohort study	D 167 Mean Age (SD): 42.5 (15.9) Avg time post injury (SD): 2.45 (3.79) % Female:	Classification of Spinal Cord Injury examination; (2) locomotion (gait speed, distance); (3) balance; and (4) functional gait speed stratifications after chronic incomplete spinal cord injury (SCI). Study duration: Acute (0-15 days) and long term follow up data (>12 months) were extracted for traumatic SCI patients were prospectively	improved to AIS grade D (9/32; P.001) 2. 92% of the overall sample remained unchanged (n=23 AIS grade C; n=109 AIS grade D) 3. Significant gains in gait speed, ambulation distance, and balance occurred after locomotor training regardless of initial AIS classification (n225) (P<.01)
al. 2012 Prospective cohort study	D 167 Mean Age (SD): 42.5 (15.9) Avg time post injury (SD): 2.45 (3.79) % Female:	Classification of Spinal Cord Injury examination; (2) locomotion (gait speed, distance); (3) balance; and (4) functional gait speed stratifications after chronic incomplete spinal cord injury (SCI). Study duration: Acute (0-15 days) and long term follow up data (>12 months) were extracted for traumatic SCI patients were prospectively obtained from the	improved to AIS grade D (9/32; P.001) 2. 92% of the overall sample remained unchanged (n=23 AIS grade C; n=109 AIS grade D) 3. Significant gains in gait speed, ambulation distance, and balance occurred after locomotor training regardless of initial AIS classification (n225) (P<.01) 4. Gains in gait speed resulted in significant
al. 2012 Prospective cohort study	D 167 Mean Age (SD): 42.5 (15.9) Avg time post injury (SD): 2.45 (3.79) % Female:	Classification of Spinal Cord Injury examination; (2) locomotion (gait speed, distance); (3) balance; and (4) functional gait speed stratifications after chronic incomplete spinal cord injury (SCI). Study duration: Acute (0-15 days) and long term follow up data (>12 months) were extracted for traumatic SCI patients were prospectively obtained from the RHSCIR, between 2004	improved to AIS grade D (9/32; P.001) 2. 92% of the overall sample remained unchanged (n=23 AIS grade C; n=109 AIS grade D) 3. Significant gains in gait speed, ambulation distance, and balance occurred after locomotor training regardless of initial AIS classification (n225) (P<.01) 4. Gains in gait speed resulted in significant conversion between
al. 2012 Prospective cohort study	D 167 Mean Age (SD): 42.5 (15.9) Avg time post injury (SD): 2.45 (3.79) % Female:	Classification of Spinal Cord Injury examination; (2) locomotion (gait speed, distance); (3) balance; and (4) functional gait speed stratifications after chronic incomplete spinal cord injury (SCI). Study duration: Acute (0-15 days) and long term follow up data (>12 months) were extracted for traumatic SCI patients were prospectively obtained from the	improved to AIS grade D (9/32; P.001) 2. 92% of the overall sample remained unchanged (n=23 AIS grade C; n=109 AIS grade D) 3. Significant gains in gait speed, ambulation distance, and balance occurred after locomotor training regardless of initial AIS classification (n225) (P<.01) 4. Gains in gait speed resulted in significant

		AIS classification, lower extremity pin prick, light touch and motor scores, 10MWT, 6MWT, and the Berg Balance Scale	5.	locomotor training (P<.001) LEMS at enrolment did not correlate well with gait speed, endurance, or balance after locomotor training
	N: 178	Objective:	Re	sults:
Wirz et al. 2006 Longitudin al and cross- sectional analysis Europe	Level: A (motor complete, walking) tetra 49 para 68 B (motor incomplete, non-walking) tetra 24 para 22 C (motor incomplete, standing or walking) tetra 3 para 12 1 (limited walking function) Tetra 16 Para 33 2 (unrestricted walking function) Tetra 24 Para 13 Mean Age (SD): A 35.3 (14.1) B 44.1 (16.4) C 42.1 (14.4) 1 tetra 46.2 (12.8) 1 para 37.7 (15.4) 2 tetra 42.2 (14.1) 2 para 37.1 (10.6) % Female: 33%	To relate locomotor function improvement within the first 6 months after spinal cord injury (SCI), to an increase in Lower Extremity Motor Score (LEMS) and to assess the extent to which the level of lesion influenced the outcome of ambulatory capacity. Study duration: Retrospective study on an electronic database in 2005 over a 20-month period. Traumatic or ischemic injuries were included. Outcome Measures: WISCI, Gait speed, LEMS LEMS = voluntary muscle strength of hip flexors, knee extensors, ankle dorsiflexor, toe extensor, ankle plantar flexor	1. 2. 3.	incomplete, standing or walking) the overall improvements of LEMS, WISCI, and gait speed was significant (P=0.001).
Draganich et al. 2023	N: 3721 participants' data Level:	Objective: Retrospective analysis of USA SCI Model	1.	Clinical Prediction Rule (CPR) ≥ 33 was identified as the optimal predictive CPR threshold to predict

AIS C: 255 AIS D: 337 Mean age: 47.2 % Female: 21.4% Pemale: 21.4% N: 184 Level: ABC C1-C4 - 45; ABC C5-C8 - 58; ABC T1-T6 27 ABC T7-T5 31 D 23 Mean Age (SD): 426% Europe N: 184 Level: ABC C1-C4 - 45; ABC C5-C8 - 58; ABC T1-T6 27	Retrospecti ve Study	AIS A: 446 AIS B: 145	Systems data from 12 centers.		outdoor walking one year after SCI.
area under the curve: 0.900 (95% CI: 0.890 - 0.910; p < 0.0001), classification accuracy of 82.9% (95% CI: 81.6% - 84.1%; p < 0.0001), balanced accuracy of 83.8% (95% CI: 82.6% - 85.0%; p < 0.0001), sensitivity of 88.1% (95% CI: 0.890 - 0.910; p < 0.0001), and specificity of 79.4% (95% CI: 0.890 - 0.910; p < 0.0001) sensitivity of 88.1% (95% CI: 0.890 - 0.910; p < 0.0001), and specificity of 79.4% (95% CI: 0.890 - 0.910; p < 0.0001) Sensitivity of 88.1% (95% CI: 0.890 - 0.910; p < 0.0001), and specificity of 79.4% (95% CI: 0.890 - 0.910; p < 0.0001) Sensitivity of 88.1% (95% CI: 0.890 - 0.910; p < 0.0001), and specificity of 79.4% (95% CI: 0.890 - 0.910; p < 0.0001) Sensitivity of 88.1% (95% CI: 0.890 - 0.910; p < 0.0001), and specificity of 79.4% (95% CI: 0.890 - 0.910; p < 0.0001) Sensitivity of 88.1% (95% CI: 0.890 - 0.910; p < 0.0001), and specificity of 79.4% (95% CI: 0.890 - 0.910; p < 0.0001) Sensitivity of 88.1% (95% CI: 0.890 - 0.910; p < 0.0001), and specificity of 79.4% (95% CI: 0.890 - 0.910; p < 0.0001) Sensitivity of 88.1% (95% CI: 0.890 - 0.910; p < 0.0001), and specificity of 79.4% (95% CI: 0.890 - 0.910; p < 0.0001) Sensitivity of 88.1% (95% CI: 0.890 - 0.910; p < 0.0001), and specificity of 79.4% (95% CI: 0.890 - 0.910; p < 0.0001) Sensitivity of 88.1% (95% CI: 0.890 - 0.910; p < 0.0001), and specificity of 79.4% (95% CI: 0.890 - 0.910; p < 0.0001) Sensitivity of 88.1% (95% CI: 0.890 - 0.910; p < 0.0001), and specificity of 79.4% (95% CI: 0.890 - 0.910; p < 0.0001) Sensitivity of 88.1% (95% CI: 0.890 - 0.910; p < 0.0001), and specificity of 79.4% (95% CI: 0.890 - 0.910; p < 0.0001) Sensitivity of 88.1% (95% CI: 0.890 - 0.910; p < 0.0001), and specificity of 79.4% (95% CI: 0.890 - 0.910; p < 0.0001) Sensitivity of 88.1% (95% CI: 0.890 - 0.910; p < 0.0001), and specificity of 79.4% (95% CI: 0.890 - 0.910; p < 0.0001) Sensitivity of 88.1% (95% CI: 0.890 - 0.910; p < 0.0001), and specificity of 10.0001; p < 0.0001) Sensitivity of 88.1% (10.8) Sensitivity of 88.1% (10.8) Sensitivity of 88.1% (10.8)	USA	AIS C: 255 AIS D: 337 Mean age: 47.2	motor score, L5 motor	2.	predict outdoor walking one year after SCI with high accuracy in the testing dataset using the optimal CPR threshold determined by cross-
Level: ABC C1-C4 – 45; ABC C5-C8 – 58; ABC T1-T6 27 ABC T7-S5 31 D 23 Mean Age (SD): 42 [18] % Female: 26% Level: ABC C1-C4 – 45; ABC C5-C8 – 58; ABC T7-S5 31 D 23 Mean Age (SD): 42 [18] % Female: 26% CI (0.892, 0.986) There was no significant difference between those who did and those who did not walk in terms of gender or whether the patients had spinal surgery 6. Analyses comparing the patients with a 1-year follow-up, a 6-month follow-up, a 6-month follow-up and a missing follow-up showed significant differences				3.	area under the curve: 0.900 (95% CI: 0.890 – 0.910; p < 0.0001), classification accuracy of 82.9% (95% CI: 81.6% – 84.1%; p < 0.0001), balanced accuracy of 83.8% (95% CI: 82.6% – 85.0%; p < 0.0001), sensitivity of 88.1% (95% CI: 0.890 – 0.910; p < 0.0001), and specificity of 79.4% (95% CI: 0.890 –
Silfhout et al. 2016 Retrospective Study Europe 45; ABC C5-C8 – 58; ABC T7-S5 31 D 23 Mean Age (SD): 42 (18) % Female: 26% previously described Dutch clinical prediction rule for ambulation outcome in routine clinical practice (Van Middendorp study). Study duration: Traumatic SCI patients were retrospectively studied from hospital records (2006 - 2014) Outcome Measures: Ability to walk independently at 1 year follow-up, a 6-month follow-up and a missing follow-up showed significant differences			_	4.	
post injury (Po0.05) in time	al. 2016 Retrospecti ve Study	45; ABC C5-C8 – 58; ABC T1-T6 27 ABC T7-S5 31 D 23 Mean Age (SD): 42 (18) % Female:	previously described Dutch clinical prediction rule for ambulation outcome in routine clinical practice (Van Middendorp study). Study duration: Traumatic SCI patients were retrospectively studied from hospital records (2006 - 2014) Outcome Measures: Ability to walk		There was no significant difference between those who did and those who did not walk in terms of gender or whether the patients had spinal surgery Analyses comparing the patients with a 1-year follow-up, a 6-month follow-up and a missing follow-up showed significant differences