Author, Year Country Study Design Sample Size	Population Intervention Outcome Measure	Results
(Duzgun Celik et al., 2018) Turkey Observational N=40	Population: Pediatric-sustained SCI (<18 yr): Age at interview: 23.9±5.8 (18- 44) yr; Age at injury: 14.6±2.8 yr; Time since injury: 9.4±6.1 (3-29) yr; Gender: males=13, females=7; Severity of injury: AIS A=10, AIS B=3, AIS C=3, AIS D=4. Adult-sustained SCI (18+ yr): Age at interview: 43.9±12.8 (30-79) yr; Age at injury: 33.1±16.6 yr; Time since injury: 8.7±8.0 (1-31) yr; Gender: males=10, females=10; Severity of injury: AIS A=12, AIS B=1, AIS C=5, AIS D=2. Intervention: None. Survey. Outcome Measures: Craig Handicap Assessment and Reporting Technique (CHART-sf), World Health Organization Quality of Life Scale Short Form (WHOQOL-Bref; four domains including physical, mental, social, and environmental), Beck Depression Inventory (BDI).	 There was no significant difference in the mean and total CHART-sf scores between the two groups; total CHART-sf scores were not correlated with ASIA scores, complete/incomplete status of patients, depression level or disease duration in either group. For WHOQOL-Bref, only environmental area scores were significantly higher in Group 2 than Group 1 (p<0.05). There was no difference in BDI scores between the two groups, and 79% of patients in both groups were within a normal range.
(Morrison et al., 2017) USA Observational N=178 Caregivers of children with SCI	 Population: Group 1 (Caregivers with children 1-18 yr; n=178): Child age at injury: 5.8±5.6 yr; Child age at interview: 11.1±5.2 yr; Child gender: males=100, females=78; Level of injury: paraplegia=121, tetraplegia=57; Severity of injury: AIS A=87, AIS BCD=91. Group 2 (just the children 7-18 yr from the above sample; n=134): Child age at injury: 7.3±5.7 yr; Child age at interview: 13.4±3.5 yr; Child age at interview: 13.4±3.5 yr; Child gender: males=80, females=54; Level of injury: paraplegia=88, tetraplegia=46; Severity of injury: AIS A=66, AIS BCD=68. Intervention: None. Mixed methods. Caregivers answered an open-ended question (qualitative) and completed a survey (quantitative). Children completed surveys only. Outcome Measures: Caregivers: What has been the most rewarding parenting a child with a SCI. Children with SCI: Revised Children's Manifest Anxiety Survey (RCMAS-2-SF), Children's Depression Inventory (CDI-2-SF), Pediatric Quality of Life Inventory 4.0 (PedsQL; Generic Core Scales), Children's Assessment of Participation and Enjoyment (CAPE). 	 Group 1: Data from Caregivers with children 1-18 yr Caregivers derive a variety of rewards from parenting their children with SCI including: A. Enhanced Resilience in Child and Self (71.9%) child's accomplishments, improvement/recovery, school/academic achievements and having a positive/optimistic attitude, etc. B. Stronger Caregiver-Child Relationship (18%) – spending time together, growing close and providing child with emotional assistance. C. Connecting with Others (11.2%) – building relationships with and receiving support with from children and families, with providers and with organizations. D. Learning (9.6%) – learning about new experiences, learning about SCI, learning about the child, learning from the child, the caregiver and child learning from each other and learning to advocate. Just 3.4% of caregivers reported that parenting a child with SCI was like parenting any other child. Just 2.2% reported that there were no rewards to parenting their child with SCI. Caregivers who had children who were older at the time of injury (p<0.001) and interview (p=0.017) were more likely to report having an enhanced Caregiver-Child Relationship. Caregivers without college exposure (p=0.034) and those who were unemployed (p=0.029) were more likely to cite Learning as a reward. No other significant relationships emerged between caregiver rewards and sociodemographic variables were found.

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		 7. 8. 9. 10. 	Caregivers whose children scored lower on self-reported school and psychosocial HRQOL were more likely to report 'Resilience in my Child' as a reward (p<0.05 for both). Caregivers whose children participated in fewer community activities and participated less often and had lower levels of depressive symptoms reported experiencing an Enhanced Caregiver–Child Relationship (p<0.05 for all). Caregivers whose children participated in activities further from home and with a broader group (p<0.05 for both) and had higher self-reported psychosocial HRQOL (p<0.05) and self-reported and parent- reported school HRQOL (p<0.001) were more likely to report a Connecting with Others as a reward. No other significant relationships emerged between caregiver reward type and child
			anxiety, depression, activity participation or
(Kelly et al., 2016) USA Observational N=40	Population: Children with SCI: Age at interview: 11.5±3.2 yr; Age at injury: 4.3±4.2 yr; Gender: males=25, females=15; Time since injury: 6.9±3.9 yr; Level of injury: paraplegia=30, tetraplegia=10; Severity of injury: AIS A=25. Caregivers: mothers=34, fathers=3, grandmothers=1, grandfathers=1, aunt=1. Intervention: None. Survey. Outcome Measures: Children: Pediatric Quality of Life Inventory for Health-Related Quality of Life (HRQOL). Caregivers: Hospital Anxiety and Depression Scale (HADS), Pennebaker Inventory of Limbic Languidness (PILL), Revised Caregiver Burden Interview, short Form (RCBI), Social Problem-Solving Inventory, revised, short form (SPSI- R:S).	1. 2. 3. 4. 5. 6. 7.	quality of life. Caregiver problem solving alone was related to child physical HRQOL (p<0.01). Caregiver mental health (p<0.01), burden (p<0.05), and problem solving were related to child psychosocial HRQOL (p<0.01). Regression analyses controlling for child age and injury level revealed effective caregiver problem solving (p<0.001) was significantly related to greater child physical HRQOL. Regression analyses controlling for child age and injury level revealed effective caregiver problem solving (p<0.001) was significantly related to greater psychosocial HRQOL. Problem solving orientation was related to both child physical (p<0.01) and psychosocial HRQOL (p<0.001); having a caregiver who demonstrated a positive, as opposed to negative, problem-solving orientation was related to greater child HRQOL. Problem solving style was related to both physical (p<0.01) and psychosocial HRQOL (p<0.001); caregivers who demonstrated being rational resulted in greater HRQOL among children whereas caregivers who were avoidant resulted in lower HRQOL among children. Caregivers demonstrating impulsivity and/or carelessness was related to kids having lower psychosocial HRQOL (p<0.05) but was not significantly associated with physical HRQOL.
(Ma et al., 2016) Canada Observational N=174	Population: Pediatric-sustained SCI (<19 yr; $n=87$): Age: 38.6±12.3 yr; Gender: males=61, females=26; Time post-injury: 24.1±14.0 yr; Level of Injury: C1-4=6, C5-8=35, T1-5=12, T6-L5=34; Severity of injury: complete=41, incomplete=46. Adult-sustained SCI (19+ yr; $n=87$): Age: 39.5±10.9 yr; Gender: males=62, females=25; Time post injury: 12.8±10.0 yr; Level of injury: C1-4=8, C5-8=33, T1-5=11, T6-L5=35. Severity of injury: complete=40, incomplete=45.	1. 2. 3.	Compared to adult-sustained SCI, participants with paediatric-sustained SCI reported significantly greater functional independence (FIM motor subscore; p=0.03), less pain (SF-36 pain subscore; p=0.02), and fewer visits to the doctor in the past year (p=0.04). There were no significant differences between adult- or pediatric-sustained SCI groups with respect to perceived health status (SF-36 general health subscore) or depressive symptoms (PHQ-9). Compared to adult-sustained SCI, those with pediatric-sustained SCI reported more

	Intervention: None. Secondary analysis of data from the <i>Study of</i> <i>Health and Activity in People with</i> <i>SCI (SHAPE-SCI)</i> (Martin Ginis et al., 2008). Outcome Measures: Functional Independence Measure (FIM) motor subscale, Short Form 36 (SF-36), number of physician visits, Patient Health Questionnaire 9-item (PHQ-9), Physical Activity Recall Assessment for People with Spinal Cord Injury (PARA-SCI), Craig Handicap Assessment and Reporting Technique (CHART), Satisfaction with Life Scale (SWLS)	4.	minutes of moderate-heavy leisure time physical activity (PARA-SCI; p=0.05), and scored higher on measures of social and occupational participation (CHART; p=0.04 and p=0.03, respectively). There were no significant differences between adult- or pediatric-sustained SCI groups with respect to life satisfaction.
(M. Hwang et al., 2015) USA Observational N=159	Population: Age at interview: 35.0±6.2 yr; Time since injury: 21.2±7.2 yr; Gender: males=100, females=59; Level of injury: C1-4=24, C5-C8=57, T1-S5=62, other=16; Severity of injury: paraplegia=67, tetraplegia=92. Intervention: None. Survey. Outcome Measures: Routine medication use, polypharmacy (use of 5+ different medications), secondary health conditions (SHC), Functional Independence Measure, Short Form-12 Health Survey (SF12v2), Craig Handicap Assessment and Reporting Technique (CHART), Patient Health Questionnaire 9-item (PHQ-9).	1. 2. 3. 5.	There were no significant differences in the frequency of polypharmacy between men and women (p=0.418), between Caucasians and non-Caucasians (p=0.756) or between those with complete and incomplete injuries (p=0.898). There were significant differences in polypharmacy frequency among the AIS severity groups: C1-4 ABC, 54.2%; C5-8 ABC, 35.1%; T1-S5 ABC, 19.4%; AIS D, 25.0% (p=0.014); polypharmacy was more prevalent in tetraplegia than in paraplegia (p=0.003). Individuals with polypharmacy had significantly older age (p=0.034), longer duration of injury (p=0.017), greater number of SHCs (p<0.001), but significantly lower FIM motor score (p<0.001), SF12v2 physical component scores (p=0.009, p<0.001, p=0.001, and p=0.037, respectively). Greater number of SHCs, increasing duration of injury and tetraplegia increased odds of polypharmacy (p<0.001, p=0.028, and p=0.010, respectively. Polypharmacy was predictive of decreased CHART mobility scores (p<0.001), decreased SF12v2 physical component scores (p<0.001), and p=0.037, respectively. Polypharmacy (p<0.001, p=0.028, and p=0.010, respectively. Polypharmacy (p<0.001, p=0.028, and p=0.010, respectively. Polypharmacy was predictive of decreased SF12v2 physical component scores (p<0.001), decreased SF12v2 physical component scores (p<0.001) and increased PHQ-9 scores (p<0.001) when controlling for the number of SHCs, age, duration of injury and AIS severity.
(January et al., 2015) USA Observational N=177	Population: Pediatric-onset SCI: Age at interview: 33.5±7.1 (19-50) yr; Age at injury: 13.5±4.6 (0-18) yr; Time since injury: 19.5±8.2 (1-43) yr; Gender: males=110, females=67; Severity of injury: tetraplegia=100, complete=125. Intervention: None. Survey. Outcome Measures: Pittsburgh Sleep Quality Index (PSWI), Short-Form 12 (SF-12) physical subscore, Beck Anxiety Inventory (BAI), Patient Health Questionnaire 9 item (PHQ-9), Satisfaction with Life Scale (SWLS).	1. 2. 3.	Half the subjects (51.4%) self-reported poor sleep quality within the last month (51.4%) demonstrating significantly more difficulties than control group norms, but significantly fewer than sleep-disordered patient norms. Subjects with pediatric-onset SCI were comparable to controls in the area of sleep disturbances, and also similar to the sleep- disordered patient group on sleep efficiency and sleep latency scores. Subjects with pediatric-onset SCI were most likely to report difficulty getting to sleep (67.8%) and/or staying asleep (65%) at least once in the last month; bathroom use (40.1%) were also reported. Older age (p=0.008) and tetraplegia were associated with lower sleep quality (p=0.011)

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			whereas injury etiology, completeness of injury, sex, ethnicity, injury duration, and age of injury were not
		5.	Low sleep quality was strongly related to physical functioning (SF-12), both in activity- interfering pain (p<.001) and general health
		6.	(p<0.001). After controlling for age, injury severity, and physical health components, sleep quality explained a significant portion of the variance in depression (p<0.001) and anxiety (p=0.005).
			but not in life satisfaction.
	Population: Age: 13.2.2±3.9 yr; Gender: males=194, females=146; Age at Injury: 8.2±5.8 yr; <i>Three Level/ Severity Injury</i> <i>Groups</i> : tetraplegia AIS ABC=96,	1.	Subjects with paraplegia ABC and AIS D injuries participated in more activities than those with tetraplegia ABC (p=0.002 and p=0.018, respectively).
(Riordan et al.,	Intervention: None. Survey.	2.	There were no significant differences between the participation frequency of subjects with paraplegia ABC and those with
USA	Assessment of Participation and		AIS D injuries.
Observational	Enjoyment (CAPE), Pediatric Quality	3.	Subjects with paraplegia ABC reported
N-340	Children's Manifest Anxiety Scale		ABC (p=0.001) and AIS D injuries (p=0.002).
	(RCMAS), Children's Depression	4.	There were no differences between subjects
			categories when examining scores exceeding
			the clinical cut-off for anxiety or depression.
	Population: Age: 15.6±2.0 yr; Gender:	1.	Girls were significantly more anxious than
	10.6±5.5 yr; Level and Severity of Injury: C1-4 AIS ABC=26, C5-8 AIS ABC=47, paraplegia AIS ABC=120, AIS D=28, missing=15. Intervention: None. Survey. Outcome Measures: Children's Depression Inventory (CDI), Beck Depression Inventory-II (BDI-II),	2.	There was a significant interaction for child
			anxiety by child age and sex (p=0.020); older
			younger adolescent girls and boys and older
		_	adolescent boys.
		3.	Older adolescents (16-17 yr) were significantly more depressed than younger
(Klaas et al.,		4.	adolescents (12-15 yr) (p=0.040).
	Revised Children's Manifest Anxiety	5.	Regarding depression, there was no
			sex.
2014) USA		6.	Among adolescents (12-17 yr), 16% reported that they think about suicide but would not follow through and 11% indicated they
N=236			wanted to commit suicide.
		7.	Among 18-yr-olds, 10.9% indicated that they have thought about suicide but would not
			carry it out, and none responded that they wanted to kill themselves.
		8.	Among youth overall, 12.4% were receiving
			counseling services; 17.4% were taking
			behavioral reasons; and 23.3% were enrolled
		0	in counseling and/or taking medications.
		9.	more likely to be on medications than
			younger adolescents (10.1%) (p=0.009].
	Population: <i>Pediatric-onset SCI</i> : Age: 27.3±3.7 (21-37) vr: Age at injury	1.	Those attaining a bachelor's degree or higher had increased from 33.2% at the first
(Hwang et al	14.5±4.3 (0-18) yr; Time since injury:		interview to 47.0% at the last interview;
2014b)	12.7±5.0 (4-30) yr; Gender: males=182,	2.	There was no change in the proportion of
USA	tetraplegia=174; Severity of injury:		(56.8% versus 43.2%) to last interview (58.1%
N=283	complete=195; C1-4 AIS ABC=46, C5-8		versus 41.9%) (less than general population
	AIS ABC=110, T1-S5 AIS ABC=99, AIS D=28	٦	estimates); At the last interview, the proportion of
		5.	employed participants was significantly

	Intervention: None. Annual interviews. Outcome Measures: Satisfaction with Life Scale (SWLS), Short-Form 12 Health Survey (SF-12), Patient Health Questionnaire-9 (PHQ-9), and Craig Handicap Assessment and Recording Technique (CHART).	 higher in those with a baccalaureate and post-baccalaureate degrees, whereas the proportion of unemployed individuals was higher in those with a high school diploma. 4. Women and married participants also had higher rates of employment at the last interview than men and single participants, respectively. 5. There was no significant change in employment status over time (OR 1.01, confidence interval (CI) 0.98-1.04). 6. Odds of employment increased over time in participants who were women (1.04, CI 1.00-1.08), married (1.05, CI 1.02-1.08), attained a baccalaureate degree (1.03, CI 1.00-1.07), or post-baccalaureate degree (1.05, CI 1.02-1.08). 7. Odds of employment decreased over time in participants with occurrence of autonomic dysreflexia (0.80, CI 0.65-0.99), spasticity (0.80, CI 0.59-0.99) or chronic medical condition (0.83, CI 0.71-0.98). 8. Life satisfaction (SWLS) scores increased over time in those who remained employed (1.11, CI 1.01-1.22). 9. Odds of depression (PHQ-9) increased over time in those who remained unemployed (1.11, CI 1.01-1.22).
(January et al., 2014) USA Observational N=214	Population: Pediatric-Onset Adult SCI: Age: 29.5±5.2 (24-42) yr; Mean age at injury: 13.9±4.4 yr; Gender: males=133, females=81); Level of Injury: tetraplegia=124, paraplegia=90; Severity of Injury: complete=150, incomplete=64. Intervention: None. Survey. Outcome Measures: Craig Handicap Assessment and Reporting Technique (CHART), Patient Health Questionnaire – 9 Item (PHQ-9), Functional Independence Measure (FIM), Short Form 12 Item Version 2 (SF12v2), Alcohol Use Disorders Identification Test (AUDIT-C).	 (1.13, CI 1.04-1.23). Overall, mean PHQ9 was low at baseline (3.07±0.24); only 8% met the criteria for MDD at any given time point. A much higher percentage reported at least mild symptoms (38%), and 12% endorsed suicidal thoughts at any given time point. Multilevel growth modeling analyses were used to explore depression symptoms across time; several factors emerged as significant predictors of depressive symptoms in the final model: less community participation (p<0.01); incomplete injury (p=0.02); hazardous drinking (p=0.02); bladder incontinence (p=0.01); pain (p=0.03) Marriage resulted in decreases in depression scores for individuals (p=0.02).
(Schneider et al., 2014) Switzerland Cohort N=12	Population: Age: 7.5 yr; Gender males=10, females=2; Time post diagnosis: 4.2 yr (high grade=2.4 yr, low grade=5.9 yr). Intervention: None. Survey sent after patients had microsurgical removal of a primary intramedullary spinal cord tumours (total resection=5, subtotal resection=7). Outcome Measures: Pediatric Quality of Life Inventory (PedsQL).	 Among 10 patients who completed the survey, there were no significant differences in PedsQL scores (child or parent proxy) between the study cohort and values for a normative (healthy) control sample population. *Not significantly powered; authors' power analysis demonstrates a sample of 57 patients is required.
(Harder et al., 2013) USA Observational N=24	Population: Age: 11.5±3.4 (5-18) yr; Age at injury: 9.7±4.8 (1-17) yr; Gender: males=9, females=15; Injury etiology: Transverse Myelitis; Level of injury: cervical (N=13); Ambulation: normal=46%, abnormal but ambulated independently=79%, bilateral support (i.e., crutches) =29%, wheelchair-bound=8.3%.	 According to parent report on the BASC-2, subjects experienced subclinical (21.7%) or clinical (8.7%) levels of depression in a total of 29% of participants. Of the seven participants who showed elevated symptoms of depression based on parent report, two received referrals for addi- tional cognitive testing. Of the 11 participants who were prescribed medication (i.e., SSRIs, GABAergic

	Intervention: None. Neuropsychological evaluation, patient and caregiver surveys. Outcome Measures: Behavior Assessment System for Children, Sec- ond Edition (BASC-2; 5–18 yr).	4.	medications, tricyclic antidepressants, and anticholinergic agents), only two were referred for further cognitive testing. No clear association between cognitive dysfunction and mood-related factors or adverse medication side effects.
(Smith et al., 2013) USA Observational N=182	Population: Age: 15.9±1.7 (13-18) yr; Gender: males=104, females=78; Level of injury: paraplegia=115, tetraplegia=67; Severity of injury: complete=98, incomplete=84. Intervention: None. Survey. Outcome Measures: Kidcope, Children's Depression Inventory (CDI), Revised Children's Manifest Anxiety Survey (CMAS), Quality of life (PedsQL). Note: "Escape-Oriented Factor" includes distraction, social, withdrawal, self-criticism, blaming others, wishful thinking, resignation and emotion regulation yelling	1. 2. 3. 4. 5. 6. 7.	Cognitive restructuring and resignation were the two most frequently used coping strategies reported. In contrast, blaming others and self-criticism were used least frequently. Social support and emotional regulation (calming) were seen as the most effective coping strategies, whereas self-blame and wishful thinking were perceived as least effective. Increased SCI injury duration was associated with lower use of escape-oriented coping strategies. Increased age was associated with increased social withdrawal. Participants with tetraplegia used distraction more often than participants with paraplegia. After controlling for current age, age at injury, sex and injury level, hierarchal linear regression models showed increased scores on the escape-oriented factor were associated with increased anxiety and depressive symptomatology and lower psychosocial QOL (p<0.001 for all).
(Castello et al., 2012) USA Pre-Post N=6	 Population: Age: 16.6±4.4 yr; Gender: males=3, females=3; Time since injury: 3.9±3.1 yr; Level of injury: Cervical=4, Thoracic=2; Severity of injury: AIS A=3, AIS B=1, AIS C=1, AIS D=1. Intervention: Functional Electrical Stimulation (FES) cycling. Stimulators were placed on hamstrings, quadriceps and gluteal muscles (45- 50 rpm, 250 µs, 33.3 Hz, 70-120 mA). Sessions were 30 min, 3 times per wk over 9 mo. Outcome Measures: Pediatric Quality of Life Inventory (PedsQL). 	1. 2. 3. 4. 5.	Four of the six participants completed the PedsQL on at least 2 occasions. Mean Psychosocial Health Summary Score for 4 participants at their initial evaluation was 66.67 \pm 7.82 (range 61.67-78.33). Post intervention, quality of life increased for 3 of 4 subjects (mean=73.75 \pm 11.41, range=60.00-86.67). The mean change from initial to final PedsQL was 7.08 \pm 8.21, although change scores ranged from -3.33 to 16.67 (non-significant). Non-significant, positive, correlations were found between change in QOL and both total biking sessions and number of months biked ($r_s = 0.60$ and $r_s = 0.74$, respectively). Non-significant, positive, correlations were found between initial and final QOL ($r_s = 0.60$ and $r_s = 0.80$) and the months post injury.
(Hwang et al., 2012) USA Observational N=215	Population: Pediatric-onset SCI: Age at interview: 23.3±0.9 yr; Age at injury: 13.2±4.9 yr; Time since injury: 10.3±5.0 yr; Cender: males=126, females=89. Level of injury: tetraplegia=51.6%; Severity of injury: complete=73.5%, CI- 4 AIS ABC=11.2%, C5-8 AIS ABC=35.3%, TI-S5 AIS ABC=43.3%, AIS D=8.8%, missing=1.4%. Intervention: None. Survey. Outcome Measures: Functional Independence Measure (FIM), Satisfaction with Life Scale (SWLS), Short-Form 12 Health Survey (SF-12), Patient Health Questionnaire-9 (PHQ- 9) Depression Scale, and Craig Handicap Assessment and Recording	1. 2. 3.	Prevalence rates of regular substance use were 27.9% for tobacco, 55.4% for alcohol and 10.7% for marijuana (Table 2). These rates are considerably lower than the age-matched general population values. Tobacco use was higher in participants who were unemployed than those employed either full- or part-time (38% versus 21%). Alcohol use was higher in participants who were Caucasian (60 versus 26% non- Caucasian), had a college degree (80% versus 47% no college degree), were employed (70% versus 45% unemployed), had higher annual income (44%, \$10 000 versus 65%, \$10000- 29999 versus 77%, >\$30000), were single (59% versus 31% married) and able to drive independently (67% versus 35% cannot drive independently).

	Technique (CHADT) use of tobacco	4	Marijuana use was more prevalent in malos
	alcohol and marijuana	-+.	(14% versus 6% female) and those without a
			college degree (13% versus 2% college
		1	dearee).
		5	There was no significant difference in the
		<u> </u>	prevalence of substance use between those
			living independently, or in relation to any
			injury-related factors such as level, severity or
			duration of injury.
		6	Individuals with regular alcohol use had
		0.	significantly lower incidence of urinary tract
			infections (64 versus 82%) and chronic
			medical conditions (1) versus 22%) compared
			with individuals with no use.
		7.	Tobacco use was significantly associated with
			depressive symptoms (PHO-9: p<0.05).
		8.	Alcohol use was associated with higher socio-
			cognitive independence (FIM: p<0.01), better
			perceived physical health (SF-12 physical.
			CHART physical. CHART mobility: p<0.05 for
			all), and increased community participation
			(CHART social; p<0.05).
		9.	Marijuana use was not associated with anv
			outcome measure.
		10.	There was no association between SWLS and
		1	substance use of any type.
		11.	Logistic regression indicated that both
			unemployment and the presence of
			depressive symptoms contribute
			independently to tobacco use (p<0.05)
		12.	Logistic regression indicated that having a
			college degree (p<0.05) and being single
			were found to contribute most in predicting
			regular alcohol drinking (p<0.01), while
			independent mobility (p<0.01) was also a
			significant predictor for use.
		13.	Logistic regression indicated those with a
			college degree were less likely to use
			marijuana (p<0.05).
	Population: Pediatric-onset SCI: Age	1.	Structural equation modeling path analyses
	at interview: 17.8±3.7 (11-24) yr; Age at		were used to test and confirm 3 hypothesized
	injury: 11.2±5.7 (0-19) yr; Gender:		models:
	males=59, females=50; Time since	А.	PTS mediated the relationship between FF
	ınjury: 6.6±4.9 (1-23) yr.	_	and H;
	Intervention: None. Survey.	В.	The Avoidance symptom cluster of PTS
(Boyer et al.,	Outcome Measures: Post Traumatic	1	mediated the relationships between PTS
2012)	Stress (PTS) via Post-traumatic	1	reexperiencing symptoms and FI, and
USA	Diagnostic Scale and the Child Post	1	petween the PIS Arousal symptom cluster
Opservational	Cooley Compily Cumption (CC)		anu Fi, anu The providue 2 medale shaws dia da swata fit
N=109	Scale, Family Functioning (FF) Via	С.	the previous 2 models showed adequate fit
	Family Assessment Device; and	1	to the data when integrated into an
	Podiatric Orthogodia Surgeone of	1	interrelationship of level of CCL (totroplasion)
	North America Dediatric	1	nicerrelationship of level of SCI (tetraplegia V.
	Musculoskoletal Eurotional Health	1	parapiegiaj, FF, PTS symptom clusters, and FI.
		1	
	Population: Group: Children (6-12 yr)	1	For children (6-12 vr) Degression analysis
	=133 Adolescents $(13-18 \text{ yr}) = 207 \text{ Ago}$	'·	chowed that where children participate (i.e.
	133+38 yr Time since injuny 51+4.3 yr	1	further from home) positively and
(Kelly, Klaas, et	Level of injury: parapleois-224:	1	significantly predicted OOL subscales after
al., 2012)	Severity of injury: complete=187	1	controlling for age sex injury level and injury
USA	Intervention: None Survey	1	duration
Observational	Outcome Measures Children's	2	For adolescents (13-18 vr) regression analysis
N=340	Assessment of Participation and	۷.	showed that subject characteristics "who"
	Enjoyment (CAPE: i.e., participation	1	(i.e., being male, having paraplegia, and
	diversity, frequency, intensity		participating with a more diverse group)

	context), Pediatric Quality of Life Inventory – Psychosocial Health Scale (PHS) (only emotional, social, school subscales)		positively, and significantly predicted QoL after controlling for child age, sex, injury level, and injury duration.
(Chlan et al., 2011) USA Observational N=298	Population: Age: 31.1±5.5 (24-45) yr; Gender: males=184, females=114, Time since injury: 16.6±6.5 (6-38) yr; Level of injury: tetraplegia=165; Severity of injury: AIS A=210. Intervention: None. Survey. Outcome Measures: Brief Coping with Problems Experienced (Brief COPE), Functional Independence Measure (FIM), Craig Handicap Assessment and Reporting Technique (CHART), Short-Form Health Survey 12 (SF-12) and Satisfaction with Life Scale (SWLS), Importance of Religion (5-pt scale).	1. 2. 3. 4. 5.	Approximately half (141) of the participants reported that religion is 'important to very important' to them. Mean spirituality coping score was 5.14±2.32, range 2-8), with 55% (163) of respondents using spiritual coping 'a medium amount to a lot'. Importance of religion was positively correlated with age (p<0.01), duration of injury (p<0.01), mental component summary (SF-12; p<0.05) and life satisfaction (SWLS; (p<0.05). Spiritual coping (Bref-COPE) was positively correlated with age (p<0.01), duration of injury (p<0.01) and life satisfaction (SWLS; (p<0.01). Spiritual coping (Bref-COPE) was negatively correlated with FIM motor and CHART occupation (p<0.01 for both). A stepwise regression analysis with life satisfaction (SWLS) as the outcome variable showed the following significant predictors: greater perceived mental health, being married/having domestic partner, greater occupational participation, lower incidence of pain and greater motor functioning (p<0.05 for all; 40% variance explained).
(Garma et al., 2011) USA Observational N=197	Population: Age at interview: 12.8±3.7 yr; Age at injury: 6.8±5.6 yr; Gender: males=107, females=90; Time since injury: 6.0±4.7 yr; Level of injury: paraplegia=136, tetraplegia=61. Caregivers: mothers=158, fathers=39 Intervention: None. Survey. Outcome Measures: Pediatric Quality of Life Inventory (PedsQL) – only the Psychosocial Health Summary Subscale (PHSS) (i.e., emotional, social, school functioning), Revised Children's Manifest Anxiety Survey (RCMAS), Children's Depression Inventory (CDI), Beck Anxiety Inventory (BAI) I or II.	1. 2. 3. 4. 5. 6. 7.	Child- and caregiver-report scores on each of the PedsQL subscales and the PHSS from the SCI sample were significantly lower than child- and caregiver-report scores from a normative sample of youth without chronic health conditions (p<.001). With respect to the PedsQL, there was a moderate degree of association between child- and caregiver-reports (.3454); there were small effect sizes for the Emotional (.31) and School (.19) child-caregiver comparisons, and medium effect sizes for the Social (.66) and Overall PHSS (.51) child-caregiver comparisons where children consistently rated their QOL of life as better than did the caregiver-reporters. Younger age at interview was associated with higher Emotional QoL (PedsQL) in the caregiver-reports (p<0.05), but lower social QoL (PedsQL) in the child-reports (p<9<0.001). Younger age at injury was associated with higher Emotional QoL (PedsQL) (p<0.05). Child and parent-reported anxiety and caregiver depression were significantly related to all aspects of child- and caregiver- report QoL (PedsQL) (p<0.01 for all). QoL (PedsQL) did not vary by gender; however, those with paraplegia had higher social QoL than those with tetraplegia (p=0.046). Regression analyses showed that child mental health significantly predicted child- report QoL (PedsQL) (p<0.01), whereas child (p<.001) and caregiver (p<.001) mental health both significantly predicted caregiver-report QoL (PedsQL).

	Population: Children: Age at	1	Caregiver mean RAL score was 8 45+8 47 10
	interview: 12.7±3.2 yr; Age at injury:		45) representing the mild range; 16% of
	7.0±5.4 yr; males=108, females=95;		caregivers scored in the moderate/severe
	Level of injury: paraplegia=142,	_	range.
	tetraplegia=61; Severity of injury:	2.	Caregiver mean BDI was 11.37±10.07 (0-49.50)
	complete=102, incomplete=101.		representing the minimal range; 21% of
	stepmothers=2 grandmothers=10		range
	aunts=2. grandfathers=2.	3.	Among caregivers. 9% scored in the
	Intervention: None. Survey.		moderate/severe range for both anxiety and
	Outcome Measures: Caregivers		depression.
	Measures: Beck Anxiety Inventory	4.	Caregiver depression (19% of the variance)
	(BAI), Beck Depression Inventory		was associated with caregivers being female,
(Kelly et al.,	(BDI). Child Measures: Revised		older child age at injury, and having a child
2011)	(PCMAS) Children's Depression	5	Caregiver anxiety (14% of the variance) was
USA	Inventory (CDI), Pediatric Quality of	Э.	associated with caregivers being female and
Observational	Life Inventory (PedsQL).		having a child with anxiety and depression
N-205			(p<0.001).
		6.	Child anxiety and depression were each
			significantly related to less caregiver
			relationships and increased caregiver anxiety
			and depression (p<0.01 for all); child anxiety
			was also related to younger current age and
		_	shorter injury duration (p<0.05 for both).
		7.	Hierarchical regression showed that
			significant predictors of anxiety (36% of the
			variance) included poor social relationships.
			caregiver mental health problems and less
			caregiver education.
	Population: Pediatric-onset SCI: Age	1.	On average, subjects participated in 77% of the assessed social activities and 59% of job-
	6.8±5.3 vr: males=0. females=97: Level		related activities: social activities were
	of injury: paraplegia=79,		completed more frequently, further from
	tetraplegia=18; Severity of injury:		home, and with a broader group of people
	complete=50, incomplete=47.	2	than job-related activities.
	Intervention: None. Survey.	Ζ.	I ne relationship between social participation
(Gorzkowski et	Assessment of Participation and		whom, where) and OOL (PedsOL) was
al., 2010)	Enjoyment (CAPE), Children's		mediated by depression (CDI) (p<0.05); a
Observational	Depression Inventory (CDI), Pediatric		greater social participation context was
N=97	Quality of Life Inventory (PedsQL).		associated with decreased depression, which
		7	Was then associated with greater QOL.
		5.	(CAPE diversity and intensity) frequency and
			QOL (PedsQL) was mediated by depression
			(CDI) (p<0.05); a greater job participation
			frequency was associated with decreased
			areater quality of life.
	Population: Age: 12.3±3.0 yr; Gender:	1.	Mean RCMAS score=9.47±6.31 (13% with
	males=61, females=57; Time since		clinically significant symptoms of anxiety).
	Injury: 6.4±4.3 (0-16) yr; Level of injury:	2.	Mean CDI score=7.57±6.87 (6% with clinically
	paraplegia=09 participants,	٦	Significant symptoms of depression). Neither anxiety (RCMAS) nor depression (CDI)
(Anderson et	A=57, AIS B=13, AIS=22, AIS D=17.	9.	was statistically associated with demographic
al., 2009)	Intervention: None. Interview Survey.		factors.
Observational	Outcome Measures: Functional	4.	Anxiety (RCMAS) was associated with a
N=118	Independence Measure (FIM),	-	shorter duration of injury.
	Revised Children's Manifest Anxiety	э.	injury-related factors but was associated with
	Scale (RCMAS), Pediatric Quality of		lower FIM scores.
	Life Inventory (PedsQL), Children's	6.	When compared with the outcomes of
			community participation (CAPE) and quality

	Assessment of Darticipation and	1	of life (DodsOL) anxiety (DCMAS) and
		1	depression (CDI) ware to the second state
	Enjoyment (CAPE).		depression (CDI) were each only associated
			with community participation, in that the
			more anxious or depressed children were
			more apt to do activities closer to their
			homes rather than at someone else's house
			or in the community.
		7.	Lower total quality-of-life (PedsQL) ratings for
			all subscales were associated with both
			anxiety (RCMAS) and depression (CDI).
		8.	Regression showed that anxiety (RCMAS)
			alone accounted for 56% of the variance in
			quality of life whereas depression (CDI)
			accounted for 3% of the variance in quality of
			life after controlling for anxiety
	Dopulation: Dedictric-onset SCI (<18	1	Mean SWI S score for the study population
	yr): Ago: 271+3 (yr: Condor:	1.	(24.8) was somewhat higher than the mean
	yr). Age. 27.113.4 yr, Gender.		of 10 (21.6 from a normative study of persons
	indies-164, leffidies-94, fiffie since		or 19.4-21.6 from a normative study or persons
	Injury: 12.8±4.9 yr; Level of Injury: CI-	~	With adult-onset SCI.
	16=210, 17-55=68; Severity of Injury:	Ζ.	Initial life satisfaction (SWLS) was significantly
	complete=189, incomplete=88.		higher for women (p=0.01), those who were
	Intervention: None. Survey at		married or living with a partner (p<0.01); had
	multiple time points over 10 yr.		college or higher education level (p=0.04);
	Outcome Measures: Functional		were employed or students (p<0.01); did not
	Independence Measure (FIM), Craig		use illicit drugs (p<0.01); were free of medical
	Handicap Assessment and Reporting		complications in the past year (p=0.02); had
	Technique (CHART), Short-Form 12		higher FIM scores (p<0.01); had higher self-
	(SF-12), and Satisfaction with Life		perceived mental health (SF-12; p<0.01)); and
	Scale (SWLS).		had a perfect score in CHART mobility,
			occupation, and social integration (p<0.01 for
			all), compared with their counterparts.
		3.	Initial life satisfaction (SWLS) did not differ by
			age, race, living situation, age at injury.
			duration of injury level and completeness of
(Chen et al.,			injury EIM sphincter control EIM locomotion
2008)			SE-12 physical health or CHADT physical
USA			independence
Observational		7.	On average SW/LS scores increased by 014
N=278		4.	per year over the course of follow, up (p=0.10)
			which was significant for those who were
			which was significant for those who were
			index and anthe (0.21/m and 0.05) had in items
			Independently (0.21/yr, $p=0.05$), had injury
			level at 17-55 (0.49/yr, p=0.006), and had
			medical problems in the past year (0.22/yr,
		_	p=0.02).
		5.	The rate of change in SWLS was not
			significantly different by sociodemographic
			variables, presence of medical complications,
			or physical and psychosocial functioning.
		6.	Multivariable analysis showed that initial
		1	SWLS was significantly associated with sex,
		1	marıtal status, employment status, illicit drug
		1	use, FIM motor score, SF-12 mental health,
		1	and CHART social integration subscale
		1	(p<0.05); rate of change in SWLS was not
			significantly associated with any factors
			under investigation.
	Population: Pediatric-Onset Adult	1.	PHQ-9 Depressive Symptom Categories:
	SCI: Age: 30.8±5.1 (24-42) yr; Gender:	1	None=20.7%, Minimal=52.5%, Mild=19.8%,
(Anderson et	males=145, females=86; Time since	1	Moderate=5.6%, Moderate-Severe=1.3%,
al., 2007)	injury: 16.1±6.2 yr; Level of injury:	1	Severe=0.4%
USA	tetraplegia=136, paraplegia=96;	2.	There were no significant differences in PHQ-
Observational	Severity of injury: complete=159,	1	9 based on gender, race, age at injury, age at
N=232	incomplete=73.	1	interview, or duration of injury.
	Intervention: None. Interview Survey.	3.	There was a significant difference in PHQ-9
			between those with complete and

	Outcome Measures: Functional Independence Measure (FIM), Short- Form-12 (SF12), Craig Handicap Assessment and Reporting Technique (CHART), Satisfaction with Life Scale (SLS), Patient Health Questionnaire 9 Item (PHQQ9).	4. 5. 6. 7.	incomplete injuries (p=0.013); those with incomplete injuries showed significantly greater PHQ-9 scores than those with complete injuries did. Among those with tetraplegia, individuals with incomplete injuries had significantly greater PHQ-9 scores than those with complete injuries (p=0.036). Among those with paraplegia, there was no significant difference in PHQ-9 scores between those with complete and incomplete injuries. Except for the CHART subscale of physical independence, all the other CHART subscales and total score show significant differences based on PHQ-9 score (p<.05 for all). Greater PHQ-9 scores were associated with less employment, less income, less health- related quality of life as measured by the mental component summary score, and less life satisfaction (p<0.05 for all).
		8.	Medical complications including pressure ulcers, shoulder pain, and pain at any site wore associated with greater PHO-9 scores
		9.	(p<0.05 for all). Regression analysis showed that factors most predictive of depression were perceived mental health (SF-12), incomplete injuries, and CHART cognition and occupation subscales which accounted for 50% of the variance.
(Abresch et al., 2007) USA Observational N=163 (N=61 SCI)	Population: SCI (N=61): Gender: males=24, females=37. Time since injury: >12 mo. Level of injury: T-L2. <i>Spina Bifida (SB; N=42)</i> : Gender: males=19, females=23. Obese Controls (N=21): Gender: males=8, females=13. Non-Obese Controls (N=39): Gender: males=19, females=20). Intervention: None. Survey. Outcome Measures: Pediatric Quality of Life Inventory (PedsQL).	1. 2. 3. 5.	SCI and SB subjects had significantly lower sub-scores than CTRL subjects on total (p<0.001), physical (p<0.001), emotional (p<0.01), social (p<0.001), and school (p<0.001) PedsQL domains. Compared to non-obese CTRL subjects, those who were obese had lower sub-scores on the physical (p<0.001), social (p<0.001), and psychosocial (p<0.001) PedsQL domains; there were no significant differences in sub- scores from the emotional and school domains. There were no significant differences between the sub-scores of obese and non- obese subjects with SCI or SB. Total mean PedsQL score of non-obese CTRL subjects was significantly higher than that of the obese control group (p<0.02), which in turn was significantly higher than the SCI group (p<0.02) and the SB group (p<0.02). In comparison with the SB group, the SCI group had significantly higher sub-scores on the social (p<0.001) and school (p<0.001) domains, but similar scores on emotional functioning and total HRQL.
	Population: Age at injury=14.2±4.0 yr;	Liv	ing Status
(Anderson et al., 2006) USA	of injury: tetraplegia=106; Severity of injury: AlS A=105. Intervention: None. Interview at	1.	independently at the initial interview and 95 continued to live independently for the remaining 2 follow-up interviews
Observational N=166	three different time points. Outcome Measures: Craig Handicap Assessment and Reporting Technique (CHART), Short-Form 12	2.	Of the 60/166 who were not living independently at the first interview, 48/60 (80%) did not live independently at any interview.

(SF-12) and Satisfaction with Life	3 There were no significant differences
Scale (SWI S)	between those living independent or
	dependently with respect to demographic or
	body structure and function factors.
	4. Those living independently were more
	functionally independent and have high
	community participation (CHART total and all
	subscales except economic self-sufficiency),
	more likely to be employed, more satisfied
	with their lives (p<0.030 for all), more likely to
	be married ($p<0.001$), less likely to have the
	medical complications of spasticity, pressure
	ulcers, and severe UTIs (p<0.050 for all).
	5. Factors most predictive of consistent
	independent living in the regression were
	CHART physical independence, mobility, and
	occupation scores (39% variance).
	Employment
	6. Excluding students and homemakers, there
	were 113 Individuals who completed 3
	at the first interview: CO continued to be
	at the first interview, 60 continued to be
	7 Of the 41 who were not employed at the first
	interview 34 (83%) remained unemployed at
	all interviews
	8. Those employed at all 3 interviews included a
	larger percentage of women (81%) than men
	(57%), a larger percentage of those who were
	Caucasian (68%) versus other (17%), a larger
	percentage of those with paraplegia (82%)
	than tetraplegia (54%), and a larger
	percentage of those with college degrees
	(80%) than those with less education (20%).
	9. Those employed were more functionally
	independent and participated more in the
	community (CHART subscales physical
	independence, cognitive independence,
	mobility, and social integration).
	10. Those consistently employed were also more
	have greater life satisfaction, less likely to
	have specificity ($n < 0.050$ for all)
	1] Factors most predictive of stable
	employment were being female, being
	Caucasian, having greater cognitive
	independence and community mobility
	(CHART), and living independently (71%
	variance).
	Life Satisfaction:
	12. Of the 166 participants, 80 (48%) had good life
	satisfaction at the first interview, and 64
	(84%) continued at the 2 follow-up interviews.
	IS. A LOLAL OF 86/106 (52%) had poor life
	remained discatisfied at the 2 follow up
	interviews
	14 There were differences between those with
	and or poor life satisfaction with respect to
	demographic, or body structure and function
	factors.
	15. Factors significantly associated with high life
	satisfaction scores included functional
	independence, perceived mental health,

		16.	participation in the community (CHART total and mobility, occupation, and economic self- sufficiency subscales), fewer medical complications (i.e., pressure ulcers, UTIs, and pain), being married, living independently, and being employed. Predictive factors of life satisfaction in a regression were show to be CHART occupation subscale and fewer pressure
(Anderson & Vogel, 2003) USA Observational N=216* *Same subjects as in (Anderson et al., 2002)	Population: Pediatric-onset SCI: Age at injury: 14.1±4.0 yr, Age at interview: 28.6±3.4 yr, Time since injury: 14.2±4.6 yr; Gender: males=150, females=66; Level of injury: tetraplegia=22, paraplegia=194. Severity of injury: complete=137, incomplete=78. Intervention: None. Survey. Outcome Measures: 5-pt rating scale of level of satisfaction on the following domains: transportation in the community, educational achievements, job opportunities, income, recreation and social opportunities, dating opportunities, and sexual experience; Functional Independence Measure (FIM), Craig Handicap Assessment and Reporting Technique (CHART), Short-Form 12 (SF-12), and Satisfaction with Life Scale (SWLS).	1. 2. 3. 4. 5. 6. 7.	Highest satisfaction ratings occurred for the domains of transportation, education, and social/recreation; lowest satisfaction ratings occurred for income, job opportunities, and dating opportunities. There were no significant differences in satisfaction ratings for any of the domains with respect to injury severity and gender. In regression modelling, the only demographic factors associated with satisfaction domains were age at interview and gender; women were more satisfied with both income and sexual experiences, and younger age at interview was associated with greater satisfaction with dating opportunities. In regression modelling, perceived health status (SF-12) was predictive for three satisfaction domains (i.e., education, social/recreational opportunities, and sexual experiences). Independent living was associated with three satisfaction domains (i.e., satisfaction with job opportunities, dating, and sexual experiences). Community mobility, frequency of social and recreational activities, and income were each associated with satisfaction in two satisfaction domains. Global life satisfaction, as measured by SWLS, was significantly associated with each of the domain satisfaction ratings (p<0.001) with regression modelling showing the following domains as significant predictors: dating, job opportunities, education, and income (p<0.05 for all)
(Anderson & Vogel, 2002) USA Observational N=195	Population: Pediatric-onset SCI: Age at injury: 14.1±4.0 yr, Age at interview: 28.7±3.4 yr, Time since injury: 14.6±4.3 yr. Gender: males=134, females=61; Level of injury: tetraplegia=112, paraplegia=194. Severity of injury: complete=83, incomplete=78. Intervention: None. Survey. Outcome Measures: Functional Independence Measure (FIM), Craig Handicap Assessment and Reporting Technique (CHART), Short-Form 12 (SF-12), Satisfaction with Life Scale (SWLS).	1. 2.	Among the sample, 40% (n=78) were unemployed, 51% (n=99) were employed, 6% (n=12) were students, and 3% (n=6) were homemakers. Compared to those unemployed, those who were students, homemakers or employed were significantly less injured (p=0.010), more likely to be living independently (p=0.002), had higher total FIM scores and sub-scores (p=0.001), higher total CHART score and sub- scores (except for social integration) (p<0.05 for all), greater SWLS scores (p<0.001); there was no significant difference between all groups on SF-12. Compared to those employed, those unemployed had lower FIM (total and subscores) (p<0.050 for all), CHART (total and subscores) (p<0.050 for all), SF-12 physical score (p=0.011), SWLS (p<0.001) but not SF-12 mental score.

 (Vogel et al., 2020) Vogel et al., 2020)		Population: Age at interview: 286+3/	1	Pressure ulcers were statistically associated
 (Vogel et al., 2000) (Vogel et al., 2000)		vr: Age at injury: 16 1+6 0 vr: Time since	1.	with amployment (p<0.001) independent
 (Vogel et al., 2002) <		yr, Age at Injury. 14.1±4.0 yr, nine since		with employment $(p<0.001)$, independent
 (Vogel et al., 2003) (Vogel et al., 2003) N=216 (Vogel et al., 2003) (Vogel e		Injury. 14.2±4.6 yr, Gender, males–149,		$(v_1, 0, 0, 0, 0)$ to take GLADET sources ($v_2, 0, 0, 0, 0$)
 (Vogel et al, 2002) Part III Vogel et al, 2002) Part III SA Observational N=216 (Vogel et al, 2002) Charl Subscale (p=0.003), editional tribuscales (p=0.003), editional tribuscales (p=0.003), editional tribuscales (p=0.004), p=0.001, total CHART score (p=0.001), total CHART score (p=0.001), total CHART score (p=0.003), editional tribuscales of cognitive CHART score (p=0.001), total CHART score (p=0.001), total CHART score (p=0.001), total CHART score (p=0.001), p=0.001, respectively), s=12 physical score (p=0.001), total CHART score (p=0.003), chring (p=0.001), total CHART score (p=0.003), chring (p=0.001), total CHART score (p=0.003), chring (p=0.003), editive christically associated with employment (p=0.003), chring (p=0.003), p=0.003, and Ife satisfaction (p=0.001), and S=12 physical score (p=0.0043), and p=0.001, respectively), S=12 physical score (p=0.0043), and p=0.001, respectively, S=12 physical score (p=0.0043), and p=0.003, respectively, S=12 physical score (p=0.0043), and p=0.001, respectively, S=12 physical score (p=0		temales=67; Level of Injury:		(p=0.020), total CHART score (p=0.007),
 Intervention: None Survey. Outcome Measures: FUMS, Craig Handicap Assessment and Reporting Technique (CHART). Short-Form 12 (SF-12). Satisfaction with Life Scale (SWLS). Severe UTI was statically associated with employment (p-0.001), independent living (p-0.001, criving IP-0.001), independent living (p-0.001, criving IP-0.001), independent living (p-0.001, CHART subscales of cognitive, economic self-sufficiency, mobility, occupation and physical (p-0.003, p-0.005, p-0.001, CHART subscales of cognitive, economic self-sufficiency, mobility, occupation (p-0.001), independent living (p-0.003), CHART subscales of cognitive, economic self-sufficiency, mobility, occupation (p-0.001), independent living (p-0.003), CHART subscales of mobility, occupation and physical (p-0.003, p-0.005, p-0.001, independent living (p-0.003), CHART subscales of mobility, occupation and physical (p-0.003), p-0.001 and p-0.001, respectively). Spasticity was statistically associated with employment (p-0.003), CHART subscales of mobility, occupation and physical (p-0.003), p-0.001 and p-0.003), capital (p-0.003), and (p-0.043), ep-0.001, and SF-12 physical score (p-0.003), and SF-12 physical score (p-0.003), and p-0.003, cognited with employment (p-0.003). Hyperhidrosis was statistically associated with driving (p-0.003), and iffe satisfaction (p-0.003). Hyperhidrosis was statistically associated with CHART subscale (p-0.003), and iffe satisfaction (p-0.003). Shoulder pain was statistically associated with CHART subscale (p-0.003), and iffe satisfaction (p-0.003). Back pain was statistically associated with CHART subscale (p-0.003), and iffe satisfaction (p-0.003). Back pain was statistically associated with cityperiod score (p-0.004), and iffe satisfaction (p-0.003). Urinay uncontinence was statistically associated with repolyment (p-0.004), and SF-12 physical score (p-0.004), and SF-12 physical score (p-0.004), a		tetrapiegia=57%.		CHART Subscales of economic self-
 (Vogel et al., 2002) Part III Vogel et al., 2002) Shoulder Jahrson and Physical score (p=0.003), and Ife satisfaction (p=0.003), and Ife satisfaction (p=0.003), and Ife satisfaction (p=0.003), and Ife satisfaction (p=0.001), stat (LART score (p=0.002), driving (p=0.001), stat (LART score (p=0.003), driving (p=0.003), p=0.003, p=0.00		Intervention: None. Survey.		sufficiency, mobility, occupation, physical and
 Independence Measure (HM), Craig Handicap Assessment and Reporting SF-12 cores (p=0.030), and life satisfaction (SWLS). Severe UT was statically associated with employment (p=0.001), independent living (p=0.001), independent living (p=0.001), cHAPT subscales of cognitive, economic self-sufficiency, mobility, occupation and physical (p=0.003, p=0.005, p=0.000, nd p=0.001, respectively), SF-12 physical score (p=0.001), independent living (p=0.008), cHAPT subscales of mobility, occupation (p=0.009), charge subscales of mobility, occupation and physical (p=0.003, p=0.005, p=0.000, nd p=0.001, respectively), SF-12 physical score (p=0.009), charge subscales of mobility, occupation and physical (p=0.003, p=0.003, p=0.003		Outcome Measures: Functional Independence Measure (FIM), Craig Handicap Assessment and Reporting Technique (CHART), Short-Form 12		social integration (p=0.040, p<0.001, p<0.001,
 (Vogel et al., 2002a) (Vogel et al., 2002a) (Vogel et al., 2002a) (Vogel et al., 2015b) (Vogel et al., 2015b)<				p=0.001 and p=0.002, respectively), mental
 (p=0.00), (SF-12), Statisfaction with Life Scale (SWLS). <l< td=""><td></td><td></td><td>SF-12 scores (p=0.030), and life satisfaction</td></l<>				SF-12 scores (p=0.030), and life satisfaction
 (Vogel et al., 2002a) (Vogel et al., 2002a) (Vogel et al., 2002a) (Vogel et al., 2002b) (Vo			_	(p=0.001).
 (SWLS). (SWLS).		(SF-12), Satisfaction with Life Scale	2.	Severe UTI was statically associated with
 (P=0.018), driving (p=0.01), total CHART score (p=0.000), CHART subscales of cognitive, economic self-sufficiency, mobility, occupation and physical (p=0.005, p=0.005, p=0.001, p=0.001), respectively), SF-12 physical score (p=0.0016), and life satisfaction (p=0.001), independent living (p=0.006), CHART subscales of mobility, occupation and physical (p=0.003), total CHART score (p=0.006), CHART subscales of mobility, occupation and physical (p=0.003), total CHART score (p=0.0001, respectively) SF-12 physical score (p=0.0001, respectively) SF-12 physical score (p=0.0010, spectively) SF-12 physical score (p=0.043), total CHART subscale (p=0.009), and life satisfaction (p=0.025), and occupation CHART subscale (p=0.0090), and life satisfaction (p=0.0300), Shoulder pain was statistically associated with CHART subscale sof occupation and physical (p=0.0030, server statistically associated with employment (p=0.033, respectively), SF-12 physical score (p=0.0035, respectively), SF-12 physical score (p=0.0035, respectively), SF-12 physical score (p=0.0035, respectively), SF-12 physical score (p=0.0045), and SF-12 physical score (p=0.004), 		(SWLS).		employment (p=0.001), independent living
 (PO-000), CHART subscales of cognitive, economic self-sufficiency, mobility, occupation and physical (PO-003, p=0.005, p=0.001), societad with employment (Po-000), independent living (P=0.000), driving (P=0.001), total CHART socre (p=0.000), driving (P=0.001), total CHART socre (p=0.000), driving (P=0.001), total CHART socre (p=0.000), astatistically associated with employment (P=0.030), cognitive CHART subscale (p=0.009), SF-12 physical score (p=0.000), astatistically associated with employment (P=0.030), cognitive CHART subscale (p=0.009), SF-12 mental score (p=0.000), set (p=0.043), total CHART subscales (p=0.043), total CHART subscale (p=0.043), total CHART subscale (p=0.043), total CHART subscale (p=0.025), and occupation CHART subscale (p=0.023), and occupation CHART subscale (p=0.023), and occupation CHART subscale (p=0.023), and occupation CHART subscale (p=0.003), cognitive, the with driving (p=0.000), and life satisfaction (p=0.000), and life satisfaction (p=0.000), sF-12 physical score (p=0.003), respectively), SF-12 physical score (p=0.003), respectively), SF-12 physical score (p=0.003), respectively), SF-12 physical score (p=0.003), respectively), SF-12 physical score (p=0.003), scitated with economic self-sufficiency CHART subscale (p=0.001), SF-12 physical score (p=0.003), and scitated with cognitive CHART subscale (p=0.001), SF-12 physical score (p=0.004), and scitated with cognitive CHART subscale (p=0.001), SF-12 physical score (p=0.004), and scitated with reployment (p=0.049), and scitated with reployment (p=0.				(p=0.018), driving (p=0.011), total CHART score
 economic self-sufficiency, mobility, occupation and physical (p=0.03, p=0.05, p=0.001, respectively), SF-12 physical score (p=0.0016), and life satisfaction (p=0.001), independent living (p=0.009), driving (p=0.010), total CHART score (p=0.009), driving (p=0.010), total CHART score (p=0.009), and SF-12 mental score (p=0.043). Parti and the subscales of mobility, occupation and physical (p=0.03, p=0.001) and p=0.001, respectively) SF-12 physical score (p=0.001), and SF-12 mental score (p=0.043). Parti and the subscale (p=0.009), SF-12 mental score (p=0.001), SF-12 physical score (p=0.043). Parti and the subscale (p=0.009), SF-12 mental score (p=0.001), SF-12 physical score (p=0.043). Vaperhidrosis was statistically associated with driving (p=0.004), mariage (p=0.043), total CHART subscale (p=0.003), not clark subscale (p=0.003), and occupation CHART subscale (p=0.003), and occupation CHART subscale (p=0.0023), and iffe satisfaction (p=0.030). Shoulder pain was statistically associated with CHART subscale (p=0.0023), septentively, SF-12 physical score (p=0.001), and life satisfaction (p=0.003), septentively, SF-12 physical score (p=0.002), septentively, SF-12 physical score (p=0.002), SF-12 mental score (p=0.001), and life satisfaction (p=0.002). Urinary incontinence was statistically associated with regolyment (p=0.045), and SF-12 mental score (p=0.0010). Elbow contractures were statistically associated with septentive CHART subscale (p=0.013), SF-12 physical score (p=0.045), and SF-12 mental score (p=0.0010). Elbow contractures were statistically associated with reployment (p=0.049) and driving (p=0.004), septentively). Bowel incontinen				(p<0.001), CHART subscales of cognitive,
 occupation and physical (p=0.003, p=0.005, p=0.001, p=0.001, p=0.001, p=0.001, p=0.001), SF-12 physical score (p=0.001), and life satisfaction (p=0.001), independent living (p=0.009), driving (p=0.001), total CHART score (p=0.003), CHART subscale of mobility, occupation and physical (p=0.003, p=0.001) and p=0.001, respectively), SF-12 physical score (p=0.0043). Pain was statistically associated with employment (p=0.003), cognitive CHART subscale (p=0.009), SF-12 mental score (p=0.0043). Pain was statistically associated with employment (p=0.004), and life satisfaction (p=0.001), and life satisfaction (p=0.003), cognitive CHART subscale (p=0.004), marriage (p=0.043), total CHART subscale (p=0.023), and occupation Advised (p=0.037). Hyperhidrosis was statistically associated with driving (p=0.044), marriage (p=0.043), total CHART subscale (p=0.023), and occupation CHART subscale (p=0.030). Shoulder pain was statistically associated with employment (p=0.023), physical CHART subscale (p=0.030). Shoulder pain was statistically associated with employment (p=0.023). Shoulder pain was statistically associated with economic self-subscale (p=0.030). Shoulder pain was statistically associated with economic self-subscale (p=0.003). Shoulder subscales of occupation and physical (p=0.009), and life satisfaction (p=0.003). Back pain was statistically associated with economic self-subscale (p=0.003), and life satisfaction (p=0.002), SF-12 mental score (p=0.003), and life satisfaction (p=0.003). Urinary incontinence was statistically associated with cognitive CHART subscale (p=0.003), and life satisfaction (p=0.003). Urinary incontinence was statistically associated with cognitive CHART subscale (p=0.013), SF-12 physical score (p=0.043), and SF-12 mental score (p=0.004), and life satisfaction (p=0.004). Elbow contractures were statistically associated with emplo				economic self-sufficiency, mobility,
 p=0.001, p=0.007 and p=0.001, respectively), SF-12 physical score (p=0.0016), and life satisfaction (p=0.001). Spasticity was statistically associated with employment (p=0.001), total CHART score (p=0.009), driving (p=0.001), total CHART score (p=0.009), driving (p=0.003), p=0.001 and p=0.001, espectively) SF-12 physical score (p=0.001), and SF-12 mental score (p=0.043). Pain was statistically associated with employment (p=0.000), SF-12 mental score (p=0.043). Pain was statistically associated with employment (p=0.000), SF-12 mental score (p=0.001), SF-12 physical score (p=0.043). Pain was statistically associated with driving (p=0.041), mariage (p=0.043). Hyperhidrosis was statistically associated with driving (p=0.041), mariage (p=0.043). Hyperhidrosis was statistically associated with CHART subscale (p=0.0030), service (p=0.023), physical CHART subscale (p=0.0030), sociated with employment (p=0.023), physical (CHART subscale (p=0.0008), and life satisfaction (p=0.030), service (p=0.002), service (p=0.001), and life satisfaction (p=0.032), SF-12 physical score (p=0.002), and life satisfaction (p=0.003), service (p=0.002), SF-12 mental score (p=0.000), and life satisfaction (p=0.001), SF-12 physical score (p=0.002), SF-12 mental score (p=0.000), and life satisfaction (p=0.001), SF-12 physical score (p=0.045), and SF-12 mental score (p=0.0010). Urinary incontinence was statistically associated with employment (p=0.049) and driving (p=0.016). Hoopstaltizations were statistically associated with employment (p=0.049) and driving (p=0.016). Hoopstaltizations were statistically associated with independent living (p=0.026), sufficiency (p=0.043 and p=0.017, respectively). Bowel incontinence was statistically associated with independent living (p=0.026), sufficiency (p=0.043 and p=0.017, respectively). Bowel incontinence was statistically associated with independen				occupation and physical (p=0.003, p=0.005,
 SF-12 physical score (p=0.001), Spasticity was statistically associated with employment (p=0.001), independent living (p=0.001), total CHART score (p=0.005), CHART subscales of mobility, occupation and physical (p=0.003), p=0.001) and p=0.001), and p=0.001), and p=0.001), and p=0.001, and p=0.001), and p=0.001, and p=0.001), and p=0.001, and p=0.001), and p=0.001, and p=0.001), sF-12 mental score (p=0.003), cognitive CHART subscale (p=0.009), sF-12 mental score (p=0.003), cognitive cHART subscale (p=0.009), sF-12 mental score (p=0.003), cognitive cHART subscale (p=0.001), sF-12 physical score (p=0.023), and score (p=0.023), physical (cHART subscale (p=0.030), cognitive cHART subscale (p=0.030), sF-12 physical score (p=0.023), physical (cHART subscale (p=0.03), and life satisfaction (p=0.03). N=216 N=216 Respiratory complications were statistically associated with driving (p=0.004), and life satisfaction (p=0.03). Shoulder pain was statistically associated with CHART subscale of occupation and physical (p=0.009), and life satisfaction (p=0.03). Back pain was statistically associated with economic self-subscale (p=0.001), SF-12 physical score (p=0.002), SF-12 mental score (p=0.001), and life satisfaction (p=0.002). Back pain was statistically associated with economic self-subscale (p=0.003), and life satisfaction (p=0.002). Urinary incontinence was statistically associated with associated wi				p<0.001, p=0.007 and p=0.001, respectively),
 satisfaction (p=0.00), S. Spasticity was statistically associated with employment (p=0.00), independent living (p=0.00), total CHAPT score (p=0.005), CHART subscales of mobility, occupation and physical (p=0.004, p=0.004), total CHAPT score (p=0.009), and SF-12 mental score (p=0.009), SF-12 physical score (p=0.009), SF-12 physical score (p=0.009), SF-12 mental score (p=0.025), and ccupation CHART subscale (p=0.007), marriage (p=0.043), total CHAPT subscale (p=0.037). N=216 Respiratory complications were statistically associated with employment (p=0.023), physical CHAPT subscale (p=0.008), and life satisfaction (p=0.030). Shoulder pain was statistically associated with CHART subscale (p=0.008), and life satisfaction (p=0.009), SF-12 physical score (p=0.002), and SF-12 physical score (p=0.002), and SF-12 physical score (p=0.004), and Ife satisfaction (p=0.000), SF-12 physical score (p=0.002), SF-12 physical score (p=0.004), and Ife satisfaction (p=0.003), SF-12 physical score (p=0				SF-12 physical score (p=0.0016), and life
 Spasticity was statistically associated with employment (p<0.00), independent living (p=0.005), CHART subscales of mobility, occupation and physical (p=0.003), CHART subscales of mobility, occupation and physical (p=0.003), and p=0.001, respectively) SF-12 pixelal score (p=0.001), and SF-12 mental score (p=0.001), sore (p=0.001), and SF-12 mental score (p=0.001), SF-12 physical score (p=0.002), SF-12 physical score (p=0.002), SF-12 physical score (p=0.002), SF-12 physical score (p=0.023), and occupation CHART subscale (p=0.023), and occupation CHART subscale (p=0.023), physical CHART subscale (p=0.0023), sphysical CHART subscale (p=0.0023), physical CHART subscale (p=0.0023), sphysical CHART subscale (p=0.0023), SF-12 mental score (p=0.0001), and life satisfaction (p=0.002), SF-12 mental score (p=0.0002), SF-12 mental score (p=0.002), SF-12 mental score (p=0.002), SF-12 mental score (p=0.002), and statistically associated with continence was statistically associated (p=0.003), SF-12 physical score (p=0.003), SF-12 mental score (p=0.003), SF-12 mental score (p=0.003), SF-12 mental score (p=0.003), SF-12 mental score (p=0.004), and life satisfaction (p=0.002). Unirary incontinence was statistically associated with continence was statistically associated with employment (p=0.043), and SF-12 physical score statistically associated with employment (p=0.043), and driving (p=0.016). Ebow contractures were statistically associated with employment (p=0.047) and driving (p=0.047) and CHART subscale score (p=0.043), and sF-12 physical score (p=0.04				satisfaction (p=0.001).
 employment (p<0.001), independent living (p=0.003), independent living (p=0.003), independent living (p=0.003), p<0.003, p<0.001 and p=0.001, intal Scret (p=0.003), explicitly. occupation and physical (p=0.003), explicitly associated with employment (p=0.000), cspnitive CHART subscale (p=0.001), SF-12 pential score (p=0.001), SF-12 pential score (p=0.001), SF-12 pential score (p=0.001), SF-12 pential score (p=0.003), explicitly associated with employment (p=0.003), marriage (p=0.043), util d call cHART subscale (p=0.003), marriage (p=0.043), total CHART subscale (p=0.003), marriage (p=0.043), total CHART subscale (p=0.003), and accupation CHART subscale (p=0.003), septential score (p=0.003), SF-12 physical Score (p=0.002), physical CHART subscale (p=0.003), SF-12 physical score (p=0.003), and SF-12 physical score (p=0.004), and life satisfaction (p=0.003), SF-12 physical score (p=0.003), and SF-12 physical score (p=0.004), and life satisfaction (p=0.003), SF-12 physical score (p=0.004), and life satisfaction (p=0.003), SF-12 physical score (p=0.004), and life satisfaction (p=0.004), and life satisfaction (p=0.004), and life satisfaction (p=0.003), SF-12 physical scor			3.	Spasticity was statistically associated with
 (Vogel et al., 2003). (Vogel et al.				employment (p<0.001), independent living
 (p=0.005), CHART subscales of mobility, occupation and physical (p=0.003, p=0.001) and p=0.001, respectively) SF-12 physical score (p=0.001), and SF-12 mental score (p=0.003), cognitive CHART subscale (p=0.009), SF-12 mental score (p=0.002), SF-12 mental score (p=0.002), SF-12 mental score (p=0.002), SF-12 mental score (p=0.002), and life satisfaction (p=0.001), SF-12 physical score (p=0.023), and subscale (p=0.041), marriage (p=0.043), utal (CHART subscale (p=0.003), and cocupation CHART subscale (p=0.003), physical CHART subscale (p=0.003), physical CHART subscale (p=0.003), physical CHART subscale (p=0.003), physical (CHART subscale (p=0.003), physical (CHART subscale (p=0.003), physical (CHART subscale (p=0.003), sF-12 physical score (p=0.002), SF-12 mental score (p=0.004), associated with employment (p=0.043), associated with employment (p=0.043),				(p=0.009), driving (p=0.010), total CHART score
 occupation and physical (p=0.003, p=0.001) and p=0.0001, respectively). SF-12 physical score (p=0.001), and SF-12 mental score (p=0.043). Pain was statistically associated with employment (p=0.030), cognitive CHART subscale (p=0.009), SF-12 mental score (p=0.001), SF-12 physical score (p=0.019), and life satisfaction (p=0.001), marriage (p=0.043), total CHART subscale (p=0.025), and occupation Observational CHART subscale (p=0.025), and occupation control (p=0.003), cognitive CHART subscale (p=0.037). Respiratory complications were statistically associated with employment (p=0.023), physical CHART subscale (p=0.0030). Shoulder pain was statistically associated with CHART subscales of occupation and physical (p=0.009) and p=0.033, respectively), SF-12 physical score (p=0.003), SF-12 mental score (p=0.000), and life satisfaction (p=0.003). Back pain was statistically associated with economic self-sufficiency CHART subscale (p=0.001), SF-12 physical score (p=0.002), SF-12 mental score (p=0.002), SF-12 mental score (p=0.003), SF-12 mental score (p=0.003), SF-12 mental score (p=0.003), SF-12 mental score (p=0.003), SF-12 mental score (p=0.004), and SF-12 mental score (p=0.				(p=0.005), CHART subscales of mobility,
 and p=0.001, respectively) SF-12 physical score (p=0.043). Pain was statistically associated with employment (p=0.030), cognitive CHART subscale (p=0.009), SF-12 mental score (p<0.000), SF-12 physical score (p=0.019), and life satisfaction (p<0.001). Va0202a) Part III USA Observational N=216 Respiratory complications were statistically associated with driving (p=0.043), total CHART subscale (p=0.025), and occupation CHART subscale (p=0.025), and occupation CHART subscale (p=0.037). Respiratory complications were statistically associated with driving (p=0.002), and life satisfaction (p=0.030). Shoulder pain was statistically associated with CHART subscale of occupation and physical (p=0.009 and p=0.033, respectively). SF-12 physical score (p=0.002), SF-12 mental score (p=0.001), and life satisfaction (p=0.002). Shoulder pain was statistically associated with economic self-sufficiency CHART subscale (p=0.002). Back pain was statistically associated with economic self-sufficiency CHART subscale (p=0.001). Elbow contractures were statistically associated (p=0.002). Urinary incontinece was statistically associated (p=0.013). SF-12 physical score (p=0.045), and SF-12 mental score (p=0.045), and SF-12 mental score (p=0.045), and SF-12 mental score (p=0.047) and CHART subscale (p=0.013). Elbow contractures were statistically associated with employment (p=0.047) and CHART subscales of cognitive and economic self-sufficiency (p=0.047) and CHART subscales of cognitive and economic self-sufficiency (p=0.047) and CHART subscales of cognitive and economic self-sufficiency (p=0.043) and p=0.017, respectively). Bowel incontinence was statistically associated with employment (p=0.047) and CHART subscales of cognitive and economic self-sufficiency (p=0.043 and p=0.017, respectively). Bowel incontinence was statistically associated with employment (p=0.047) and CHART subscales of				occupation and physical (p=0.003, p<0.001
 (Pogel et al., Pain was statistically associated with employment (p=0.030), cognitive CHART subscale (p=0.009), SF-12 mental score (p<0.001), SF-12 physical score (p=0.019), and life satisfaction (p<0.001). S-12002a) Hyperhidrosis was statistically associated with driving (p=0.041), marriage (p=0.043), total CHART subscale (p=0.037). Hyperhidrosis was statistically associated with employment (p=0.023), and occupation CHART subscale (p=0.003), and offer satisfaction (p=0.020), and SIG (p=0.021), physical CHART subscale (p=0.003), and life satisfaction (p=0.003), and life satisfaction (p=0.003), exploring associated with CHART subscale (p=0.003), respectively), SF-12 physical score (p=0.002), SF-12 mental score (p=0.002), SF-12 mental score (p=0.002), SF-12 physical score (p=0.003), SF-12 physical score (p=0.003), sF-12 mental score (p=0.003), and life satisfaction (p=0.003), sF-12 mental score (p=0.003), sF-12 physical score (p=0.003), sF-12 mental score (p=0.003), SF-12 physical score (p=0.004), associated with employment (p=0.004), associated with independent living (p=0.007), respectively). Bowel incontinence was statistically associated with independent living (p=0				and p=0.001, respectively) SF-12 physical score
 4. Pain was statistically associated with employment (p=0.030), cognitive CHART subscale (p=0.000), SF-12 mental score (p<0.001), SF-12 physical score (p=0.019), and life satisfaction (p<0.001). 5. Hyperhidrosis was statistically associated with driving (p=0.041), marriage (p=0.043), total CHART score (p=0.025), and occupation CHART subscale (p=0.037). 6. Respiratory complications were statistically associated with employment (p=0.023), physical CHART subscale (p=0.003), and life satisfaction (p=0.003). 7. Shoulder pain was statistically associated with CHART subscale (p=0.028), and occupation cHART subscales (p=0.037). 7. Shoulder pain was statistically associated with CHART subscales (p=0.003), respectively), SF-12 physical score (p=0.003), serepectively), SF-12 physical score (p=0.003), serepectively), SF-12 physical score (p=0.002), SF-12 mental score (p=0.009), and life satisfaction (p=0.003). 8. Back pain was statistically associated with economic self-subficiency CHART subscale (p=0.013), SF-12 physical score (p=0.045), and SF-12 physical score (p=0.047) and CHART subscales of cognitive and economic self-sufficiency (p=0.043) and p=0.017, respectively). 12. Bowel incontinence was statistically associated with independent living (p=0.026). 13. Autonomic dysreflexia was statistically associated with independent living (p=0.026). 14. Autonomic dysreflexia was statistically associated with independent living (p=0.026). 13. Autonomic dysreflexia was statistically associated with independent living				(p=0.001), and SF-12 mental score (p=0.043).
 employment (p=0.030), cognitive CHART subscale (p=0.001), SF-12 mental score (p=0.01), SF-12 physical score (p=0.01), and life satisfaction (p=0.001). 2002a) Part III USA Observational N=216 Respiratory complications were statistically associated with driving (p=0.041), marriage (p=0.043), total CHART subscale (p=0.037). Respiratory complications were statistically associated with employment (p=0.023), physical (CHART subscale (p=0.030). Shoulder pain was statistically associated with employment (p=0.023), september (p=0.030). Shoulder pain was statistically associated with CHART subscale (p=0.003). Shoulder pain was statistically associated with CHART subscale (p=0.003). Shoulder pain was statistically associated with CHART subscale (p=0.003). Shoulder pain was statistically associated with CHART subscale (p=0.003). Back pain was statistically associated with economic self-sufficiency CHART subscale (p=0.003), SF-12 physical score (p=0.045), and Ife satisfaction (p=0.002). Urinary incontinence was statistically associated with employment (p=0.043), and Ife satisfaction (p=0.003). Elbow contractures were statistically associated with employment (p=0.049) and driving (p=0.016). Hospitalizations were statistically associated with employment (p=0.047) and CHART subscales of cognitive and economic self-sufficiency (p=0.043) and CHART subscales of cognitive and economic self-sufficiency (p=0.043) and CHART subscales of cognitive and economic self-sufficiency (p=0.043) and CHART subscales of cognitive and economic self-sufficiency (p=0.043) and p=0.017, respectively). Bowel incontinence was statistically associated with S-12 physical score (p=0.026). Autonomic dysreflexia was statistically associated with S-12 physical score (p=0.026). Autonomic dysreflexia was statistically associated with S-12 physical score (p=0.026). 			4.	Pain was statistically associated with
 (Vogel et al., 2002a) Part III USA Observational N=216 Servational N=216 Servational N=216 Servational Servational N=216 Servational Servational<td></td><td>employment (p=0.030), cognitive CHARI</td>				employment (p=0.030), cognitive CHARI
 (Vogel et al., 2002a) Part III USA Observational N=216 Should FLART subscale (p=0.025), and occupation CHART subscale (p=0.025), and occupation CHART subscale (p=0.025), and occupation CHART subscale (p=0.025), and occupation and physical CHART subscale (p=0.023), setting associated with employment (p=0.023), physical (p=0.009), and life satisfaction (p=0.001), and life satisfaction (p=0.003). Shoulder pain was statistically associated with CHART subscales of occupation and physical (p=0.009), and life satisfaction (p=0.003). Back pain was statistically associated with economic self-sufficiency CHART subscale (p=0.009), SF-12 physical score (p=0.002), SF-12 mental score (p=0.001), and life satisfaction (p=0.002). Urinary incontinence was statistically associated with economic self-sufficiency CHART subscale (p=0.003), SF-12 physical score (p=0.004), and SF-12 mental score (p=0.001). Elbow contractures were statistically associated with employment (p=0.049) and driving (p=0.003). Buschard with employment (p=0.049) and driving (p=0.047) and CHART subscale (p=0.016). Hospitalizations were statistically associated with employment (p=0.047) and CHART subscales of cognitive and economic self-sufficiency (p=0.047) and PART subscales of cognitive and economic self-sufficiency (p=0.047) and p=0.077, respectively). Bowel incontinence was statistically associated with self sufficiency (p=0.026). Autonomic dysreflexia was statistically associated with S-12 physical score (p=0.026). 				subscale (p=0.009), SF-12 mental score
 (roger et al., 2002a) Part III USA Observational N=216 8. Hyperhidrosis was statistically associated with driving (p=0.043), total CHART subscale (p=0.023), and occupation CHART subscale (p=0.0037). 6. Respiratory complications were statistically associated with CHART subscale (p=0.008), and life satisfaction (p=0.0030). 7. Shoulder pain was statistically associated with CHART subscales of occupation and physical CHART subscales of occupation and physical point was statistically associated with CHART subscale (p=0.008), and life satisfaction (p=0.003). 8. Back pain was statistically associated with economic self-sufficiency CHART subscale (p=0.008), and life satisfaction (p=0.009), SF-12 physical score (p=0.002), SF-12 mental score (p=0.002), SF-12 mental score (p=0.004), and life satisfaction (p=0.003). 9. Urinary incontinence was statistically associated with economic self-sufficiency CHART subscale (p=0.013), SF-12 physical score (p=0.045), and SF-12 mental score (p=0.004), and life satisfaction (p=0.003). 10. Elbow contractures were statistically associated with employment (p=0.049) and driving (p=0.049) and driving (p=0.010). 11. Hospitalizations were statistically associated with employment (p=0.049) and driving (p=0.043) and p=0.017, respectively). 12. Bowel incontinence was statistically associated with independent living (p=0.026). 13. Autonomic dysreflexia was statistically associated with independent living (p=0.026). 14. Autonomic dysreflexia was statistically associated with sF-12 physical score (p=0.026). 				(p<0.001), SF-12 physical score (p=0.019), and
 a. Pryperintional Was statistically associated with driving (p=0.04), marriage (p=0.043), total CHART score (p=0.025), and occupation CHART subscale (p=0.037). 6. Respiratory complications were statistically associated with employment (p=0.023), physical CHART subscale (p=0.008), and life satisfaction (p=0.030). 7. Shoulder pain was statistically associated with CHART subscales of occupation and physical (p=0.009) and p=0.033, respectively), SF-12 physical score (p=0.002), SF-12 envental score (p=0.001), SF-12 envental score (p=0.002), SF-12 mental score (p=0.002), SF-12 mental score (p=0.002), SF-12 mental score (p=0.003), and life satisfaction (p=0.003). 8. Back pain was statistically associated with economic self-sufficiency CHART subscale (p=0.009), SF-12 physical score (p=0.025), SF-12 mental score (p=0.008), and life satisfaction (p=0.002). 9. Urinary incontinence was statistically associated with cognitive CHART subscale (p=0.013), SF-12 physical score (p=0.045), and SF-12 mental score (p=0.004). 10. Elbow contractures were statistically associated with employment (p=0.049) and driving (p=0.016). 11. Hospitalizations were statistically associated with employment (p=0.047) and CHART subscale with employment (p=0.047) and CHART subscale of cognitive and economic self-sufficiency (p=0.043 and p=0.017, respectively). 12. Bowel incontinence was statistically associated with independent living (p=0.026). 13. Autonomic dysreflexia was statistically associated with SF-12 physical score (p=0.026). 			E	Hyperbidrosis was statistically associated
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 astisfaction (p=0.030). Shoulder pain was statistically associated with CHART subscales of occupation and physical (p=0.009 and p=0.033, respectively), SF-12 physical score (p=0.002), SF-12 mental score (p=0.001), and life satisfaction (p=0.003). Back pain was statistically associated with economic self-sufficiency CHART subscale (p=0.019), SF-12 physical score (p=0.025), SF-12 mental score (p=0.002), SF-12 physical score (p=0.025), SF-12 mental score (p=0.008), and life satisfaction (p=0.002). Urinary incontinence was statistically associated with cognitive CHART subscale (p=0.013), SF-12 physical score (p=0.045), and SF-12 mental score (p=0.0010). Elbow contractures were statistically associated with employment (p=0.049) and driving (p=0.016). Hospitalizations were statistically associated with employment (p=0.047) and CHART subscales of cognitive and economic self-sufficiency (p=0.043 and p=0.017, respectively). Bowel incontinence was statistically associated with independent living (p=0.026). Autonomic dysreflexia was statistically associated with SF-12 physical score (p=0.044). 				physical CHAPT subscale (p=0.008) and life
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 associated with independent living (p=0.026). 13. Autonomic dysreflexia was statistically associated with SF-12 physical score (p=0.004). 			12	respectively). Bowel incontinence was statistically
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associated with SF-12 physical score (p=0.004).			דו	Autonomic dysreflexia was statistically
(p=0.004).			1.5.	associated with SF-12 physical score
				(p=0.004).

		17	Llip contropture was statistically associated
		14. 15. 16. 17.	with physical CHART subscale (p=0.044). Ankle pain was statistically associated with SF-12 physical score (p=0.011) and SF-12 mental score (p=0.038). Elbow pain was statistically associated with independent living (p=0.045). Heterotopic ossification was statistically associated with physical CHART subscale (p=0.019).
	Population: Pediatric-onset SCI: Age	1.	SWLS was not significantly associated with
(Anderson et al., 2002) USA Observational N=216	at injury: 14.1±4.0 yr, Age at interview: 28.6±3.4 yr, Time since injury: 14.2±4.6 yr. Cender: males=150, females=66; Level of injury: tetraplegia=22, paraplegia=194. Severity of injury: complete=137, incomplete=78. Intervention: None. Survey. Outcome Measures: Functional Independence Measure (FIM), the Craig Handicap Assessment and Reporting Technique (CHART), the Short-Form 12 (SF-12), and the Satisfaction with Life Scale (SWLS).	2. 3. 4. 5. 6. 7. 8. 9. 10.	gender, duration of injury, or race/ ethnicity. SWLS was significantly associated with both age at injury (p=0.017) and age at interview (p=0.033); SWLS scores for those injured as older adolescents was significantly lower than for those injured at younger ages (p<0.009). Those with paraplegia showed significantly higher SWLS scores than those with tetraplegia (p=0.032). FIM total, motor and cognitive sub-scores were significantly related to SWLS (p<0.001). The total CHART score and all subscale scores (except social integration) were significantly associated with SWLS (p<0.05 for all). Other outcomes statistically associated with higher SWLS scores include higher education, being employed, higher income, living independently (p<0.05 for all). Use of illegal drugs was negatively associated with SWLS (p<0.001). Greater perceived health status (SF-12) was associated with greater SWLS (p<0.001). A greater number of medical complications was associated with life satisfaction as the outcome showed the following predictors to be significant: age at injury (p=0.008), CHART mobility (p=0.004), marriage (p<0.001), drug use (p<0.001), medical complications
	Population: Pediatric-Onset SCI	1.	Subjects with SCI assigned higher
(Kannisto & Sintonen, 1997a) Finland Observational N=408 (N=36)	(<i>N=36</i>): Age at Injury: 11.3±5.1 yr; Age at evaluation: 31.3±9.9 yr; Time since injury: 20.0±11.2 yr; Gender: males=25, females=11; Severity of injury: complete=28, incomplete=8; Injury etiology: traumatic=30, medical=5, iatrogenic=1. <i>Controls (N=372):</i> Age: 16-46 yr. Intervention: None. Survey. Outcome Measures: 15 Dimensions of Health-Related Quality of Life (15D HRQL): moving, seeing, hearing, breathing, sleeping, eating, communicating, urinary continence, working, social participation, mental functioning, pain, depression, distress and perceived health (level of health status in each); Overall health status measures with the Visual Analogue Scale (VAS).	2. 3.	importance to the I5DHRQL dimensions of mental functioning, communicating, social participation and seeing than the control subjects (p<0.05 for all). The control subjects assigned higher importance to the I5DHRQL dimensions of moving, working, sleeping and eating (p<0.05 for all). The average level of health status score on I5DHRQL for the SCI group was, on average, 0.906±0.058 (range 0.726-0.996, which was significantly different than controls (0.929±0.083; p<0.05); the most marked deviations from the best level of functioning for subjects with SCI occurred on the dimensions of continence, moving, working and pain. The average overall health status scores on the VAS, for subjects with SCI, was 82.3±15.5 (range 35-100); a significant correlation between the HRQL and VAS scores was found (r=0.33; p=0.044).