

Table 3: Incidence, neurological level and aetiology of traumatic spinal cord injury by Region and Author(s) of published data

Region	Country	Author(s) of published data	Observation period	Incidence per million population per year	Neurological level of injury		Aetiology of SCI
					Tetraplegia %	Paraplegia %	
Asia Pacific, High Income							
	Japan	Shingu ¹	1990–1992	40.2 (Estimated number 14,968; Males, n=7,842, Females, n=1909)	75%	25%	Land transport (44%, n=4,263), Falls (42%, n=4,078), Sports/recreation (5%, n=528), Self-harm (2%, n=167) and Other/unknown (7%, n=716).
	Japan (Okayama Prefecture)	Ide ²	1988-1989	28.6 (n=55; Males, n=45, Females, n=10)	69%	31%	Land transport (33%, n=18), Falls (16%, n=9), Work-related (38%, n=21) and Other/unknown (13%, n=7).
Asia, East							
	China (Tianjin)	Ning ³	2004-2008	23.7 (n=869; Males, n=738, Females, n=131)	72%	28%	Land transport (34%, n=296), Falls (57%, n=495), Sports/recreation 0.2%, n=2), Violence (1.4%, n=12), Work-related (0.8%, n=7) and Other/unknown (6.5%, n=57).
	China (Beijing)	Li ⁴	2002	60.6 est. (n=1,079); n=264; Males, n=198, Females, n=66)	5%	95%	Land transport (22%, n=59), Falls (41%, n=109), Sports/recreation (1%, n=3), Violence (0.4%, n=1) and Other/unknown (35.6%, n=94).
	China (Beijing, Shanghai)	Zhao ⁵	1983 and 1985	n/r*	31%-39%	69%	Land transport (12.1%-16.7%), Falls (33.3%-66.7%) and Violence (15.1%-22.2%).
	Taiwan	Yang ⁶	2000-2003	73.0 (n=6455); Males, n=3058, Females*, n=3397) *ICD9 806.X (Fractured vertebra with SCI and assuming male to female ratio 0.9	n/r	n/r	n/r
	Taiwan	Chen ⁷	1992–1996	18.8 (n=1,232; Males, n=958, Females, n=274) (Age group (15-64 years)	43%	57%	Land transport (49%, n=609), Falls (41%, n=500), Sports/recreation (1%, n=16), Violence (2%, n=25) and Other/unknown (7% n=82).
	Taiwan	Chen ⁷	1992–1996	47.5 (Geriatric population, n=297; Males, n=186, Females, n=111) (Age group (65-and above	54%	45%	Land transport (33%, n=97), Falls (62%, n=185), Sports/recreation (0.3%%, n=1), Violence (2% n=5) and Other/unknown (2.7% n=9).

				years).			
	Taiwan	Yeh ⁸	1977-1989	250 cases annually** (Total cases n=1,617; Males, n=1,295, Females n=322)	41%	59%	Land transport (63%, n=1,096), Falls and Self-harm (12%, n=200), Work-related (19%, n=308) and Other/unknown (6%, n=13).
	Taiwan (HualienCounty)	Lan ⁹	1986-1990	56.1(n=99; Males, n=79, Females, n=20)	70%	30%	Land transport (62%, n=61), Falls (23%, n=23), Sports/recreation (6%, n=6), Violence (3%, n=3), Self-harm (2%, n=2) and Other/unknown (4%, n=4).
	Taiwan (Taipei)	Chen ¹⁰	1978-1981	14.6 (n=560; Males, n=465, Females, n=95)	47%	53%	Land transport (45%, n=249), Falls (29%, n=157), Sports/recreation (3%, n=19), Violence (3%, n=15), Suicide (1%, n=8) and Other/unknown (20%, n=112).
Asia, South							
	Bangladesh	Hoque ¹¹	1994-1995	n/r (n=179; Males, n=158, Females, n=21)	40%	60%	Land transport (18%, n=33), Falls (63%, n=113) and Other/unknown (19%, n=33).
	India (Haryana)	Singh ¹²	2000-2001	n/r (n=483; Males, n=361, Females, n=122)	34%	66%	Land transport (35%, n=168), Falls (50%, n=241), Sports/recreation (4%, n=19), Violence (3%, n=13) and Other/unknown (8%, n=42).
	Nepal	Mukhida ¹³	2001-2004	5 cases annually (Estimate, ages <19 years)(n=14 during study period; Males, n=9, Females, n=5)	35%	65%	Falls (61%, n=9).
	Nepal (East)	Bajracharya ¹⁴	1996-2005	n/r (n=896; Males, n=684, Females, n=212)	40%	60%	Land transport (13%, n=116), Falls (60%, n=538), Work-related (8%, n=72) and Other/unknown (19%, n=170).
	Nepal (East)	Lakhey ¹⁵	1997-2001	n/r (n=233; Males, n=169, Females, n=64)	38%	62%	Land transport (7%, n=16), Falls (82%, n=192) and Other/unknown (11%, n=25).
	Pakistan	Masood ¹⁶	2003-2007	n/r (n=214; Males, n=189, Females, n=25)	47%	53%	Land transport (23%, n=50), Falls (68%, n=145), Sports/recreation (1%, n=3), Violence (6%, n=12) and Other/unknown (2%, n=4).
	Pakistan	Raja ¹⁷	1995-1999	5.1 (n=2,654; Males, n=1,922, Females, n=732)	68%	32%	Land transport (7%, n=186), Falls (82%, n=2176) and Other/unknown (11%, n=292).
	Pakistan (AFIRM, Rawalpindi)	Rathore ¹⁸	2006	n/r (n=83; Males, n=68, Females 15)	27%	71%	Land transport (25%, n=21), Falls (58%, n=48), Violence (8%, n=7) and Other/unknown (9%, n=7).
Asia, Southeast							
	Thailand (Bangkok)	Parajareya ¹⁹	1989-1994	5.8 (Estimate based on	50%	50%	Land transport (51%, n=111), Falls (31%, n=67),

				1992 population of 6,250,000; n=219; Males, n=186, Females, n=33)			Sport/recreation (0.5%, n=1), Violence (8%, n=18), Self-harm (0.5%, n=1) and Other/unknown (9%, n=21).
	Thailand (Chiang Mai)	Kovindha ²⁰	1985-1991	23 (n=398; Males, n=365, Females, n=33)	53%	47%	Land transport (47%, n=187), Falls (48%, n=191), Violence (4%, n=16) and Other/unknown (1%, n=4).
	VietNam	Weerts ²¹	2006-2007	13.9 (Estimate based on 2008 population of 86,116,560; n=247)	n/r	n/r	Land transport (45%, n=111), Sports/recreation (2%, n=4), Work-related (17%, n=40), Violence (1%, n=3) and Other/unknown (36%, n=89).
Australasia							
	Australia	Norton ²²	2007-2008	15.0 (Age-standardised); (n=285; Males, n=249, Females, n=45)	53%	47%	Land transport (46%, n=130), Falls (28%, n=81), Sports/recreation (13%, n=37) and Other/unknown (13%, n=37).
	Australia	Cripps ²³	2006-2007	14.9 (Age-standardised); (n=272; Males, n=226, Females, n=46)	50%	50%	Land transport (52%, n=142), Falls (29%, n=78), Sports/recreation (8%, n=21) and Other/unknown (11%, n=31).
	Australia	O'Connor ²⁴	1998-1999	14.5 (Age-standardised); (n=265; Males, n=201, Females, n=64)	57%	43%	Land transport (43%, n=113), Falls (31%, n=83), Sports/recreation (9%, n=24) and Other/unknown (17%, n=45).
	Australia (Victoria)	Burke ²⁵	1978-1982	n/r (n=325; Males, n=254, Females, n=71)	52%	48%	Land transport (52%, n=169), Sports/recreation (16%, n=52), Work-related (12%, n=40) and Other/unknown (20%, n=65).
	Australia (Queensland)	Sutton ²⁶	1962-1971	16.6 (cases >9 years of age; estimated incidence based on 1.75 million population); (n=232; Males, n=202, Females n=30)	55%	45%	Land transport (50%, n=103), Falls (7%, n=15), Sports/recreation (21%, n=37), Work-related (20%, n=40) and Violence (2%, n=12).
	Australia (Victoria)	Cheshire ²⁷	1959-1966	11.6 (Based on Victorian population of 4 million); (n=390; Males, n=328, Females, n=62)	53%	47%	Land transport (52%, n=170), Sports/recreation (13%, n=41), Work-related (21%, n=68), Violence (2%, n=5) and Other/unknown (12%, n=41).
	New Zealand	Dixon ²⁸	1988	49.1 (n=164; Males, n=120, Females, n=44)	52%	48%	Land Transport (54%, n=89), Falls (24%, n=39), Sports/recreation (11%, n=18), Violence (2%, n=3) and Other/unknown (9%, n=15).
Europe, Central							
	Poland (Poznan)	Jankowski ²⁹	1979-1992	n/r (n=511; Males, n=449, Females, n=62)	50%	50%	Land transport (41%, n=208), Sports/recreation (19%, n=97), Work-related (15%, n=79) and Other/unknown (25%, n=127).

Europe, Eastern	Romania (Bucharest)	Soopramanien ³⁰	1975-1992	28.5 (n=400/yr approx; Male, n=317, Females, n=95)	60%	40%	Land transport (72%, n=296), Sports/recreation (7%, n=29), Work-related (13%, n=52) and Other/unknown (8%, n=35).
	Estonia	Sabre ³¹	2003-2007	27.9 (n=191; Males, n=159, Females, n=32)	22%	78%	Land transport (27%, n=52), Falls (42%, n=80), Sports/recreation (15%, n=29), Self-harm (1%, n=2), Violence (4%, n=8) and Other/unknown (11%, n=20).
	Estonia (Haapsalu)	Eelmae ³²	2008-2010	n/r (n=56; Males 82%,n=46, Females 18% n=10)	48%	52%	Land transport (20%, n=11), Falls (46%, n=26), Sports/recreation (17% (diving), n=10), Violence (2%, n=1) and Other/unknown (15%, n=8).
	Russia (Saint Petersburg)	Kondakov ³³	1994-1996	44 (n=105; Males, n=68, Females, n=37).	n/r	n/r	Land transport (16%, n=17), Falls (34%, n=36), Sports/recreation (2%, n=2), Work-related (5%, n=5) and Other/unknown (43%, n=45).
	Russia (Novosibirsk)	Silberstein ³⁴	1989–1993	29.7 (n=196; Males, n=153, Females, n=43)	49%	51%	Land transport (25%, n=49), Falls (40%, n=79), Sports/recreation (33% n=65) and Violence (2% n=3).
Europe, Western	Denmark	Biering-Sorensen ³⁵	1975-1984	9.2 (n=360; Males, n=262, Females=98)	51%	49%	Land transport (47%, n=125), Falls (26%, n=70), Sports/recreation (12%, n=30), Self-harm (8%, n=21), Violence (2%, n=5) and Other/unknown (5%, n=17).
	Finland	Ahoniemi ³⁶	1976-2005	13.8 (n=1,647 >16yrs; Males, n=1,362, Females, n=285)	51%	49%	Land transport (40%, n=651), Falls (41%, n=679), Sports/recreation (7%, n=109), Violence (3% n=44) and Other/unknown (9%, n=164).
	Finland	Kannus ³⁷	1970-1995	50 (Fall-related SCI in 50 years and above in 1970); 270 (Fall-related SCI in 50 years and above in 1995)	n/r	n/r	n/r
	Finland (Helsinki)	Dahlberg ³⁸	1978-1997	13-15 (n=55 cases per year; Males 76%, Females 24%)	46%	54%	Land transport (35%, n=53), Falls (43%, n=66), Sports/recreation (9%, n=14), Violence (4%, n=6) and Other/unknown (9%, n=13).
	France	Albert ³⁹	2000	19.4 (n=934 Ages>15 years)	n/r	n/r	n/r
	France (Rhone-Alpes Region)	Minaire ⁴⁰	1970-1975	12.7 (n=351; Males, n=276, Females, n=75)	28%	72%	Land transport (47%, n=166), Falls (29%, n=100), Sport/recreation (8%, n=27), Violence (1% n=3) and Other/unknown (15%, n=55).
	Germany	Koning ⁴¹	1983	36 (n=2,213)	n/r	n/r	n/r

Germany	Exner ⁴²	1976-1996	10.7 (Based on 1985 pop of 77,685,000); n=16,559; Males, n=11,827, Females, n=4,732) ^{***}	38%	62%	Land transport (46%, n=7,699), Sports/recreation (10%, n=1,709), Work-related (19%, n=3,119), Self-harm (7%, n=1,080), Violence (1%, n=239) and Other/unknown (17%, n=2,713).
Greece (Thessaloniki)	Divanoglou ⁴³	2006-2007	33.6 (n=87 >15 yrs; Males, n=77, Females, n=10)	48%	52%	Land transport (51%, n=41), Falls (37%, n=30), Sports/recreation (4%, n=3), Violence (2%, n=2) and Other/unknown (6%, n=5).
Greenland	Pedersen ⁴⁴	1965-1986	26 (n=27; Males, n=20, Females, n=7)	33%	67%	Land transport (4%, n=1), Falls (33%, n=9), Sports/recreation (4%, n=1), Self-harm (26%, n=7), Violence (11%, n=3), and Other/unknown (22%, n=6).
Iceland	Knutsdottir ⁴⁵	1973-2008	20 (n=191, Males, n=140, Females, n=51)	55%	45%	Land transport (46%, n=87), Falls (29%, n=55), Sports/recreation (20%, n=39) and Other/unknown (5%, n=10).
Iceland	Knutsdottir ⁴⁶	1973-1989	24 (1973-82); 18 (1983-89) (n=79); Males, n=43, Females, n=16 were living)	56%	44%	Land transport (50%, n=39), Falls (37%, n=29) and Other/unknown (13%, n=11).
Ireland	O'Connor ⁴⁷	2000	13.1 (n=46; Males, n=40, Females, n=6)	50%	50%	Land transport (50%, n=23), Falls (22%, n=10), Work-related (15%, n=7), Sports/recreation (9%, n=4), Self-harm (2%, n=1) and Other/unknown (2%, n=1).
Ireland (West Ireland)	Roche ⁴⁸	4-year study	195.4 (n=285; Males, n=175, Females, n=111)	43%	57%	Land transport (34%, n=97), Falls (58%, n=168), Sports/recreation (2%, n=4) and Other/unknown (5%, n=16).
Israel	Catz ⁴⁹	1959-1992	15.9 (n=250 consecutive patients; Males, n=189, Females, n=61) (Based on 1989 pop) ^{***}	36%	64%	Land transport (33%, n=82), Falls (17%, n=42), Work-related (27%, n=67), Self-harm (14%, n=34) and Other/unknown (9%, n=25).
Israel	Ohry ⁵⁰	1974-1984	1 (Approx.); (Paediatric SCI; n=23; Males, n=15, Females, n=8)	52%	48%	Land transport (35%, n=8), Falls (22%, n=5), Sports/recreation (22%, n=5) and Violence (21%, n=5).
Italy	Pagliacci ⁵¹	1997-1999	18-20 Est. (n=684; Males, n=548, Females, n=136)	43%	57%	Land transport (54%, n=368), Falls (23%, n=155), Sports/recreation (8%, n=54), Self-harm (4% n=29) and Other/unknown (11%, n=78).
Italy (7 Rehabilitation Centres)	Celani ⁵²	1989-1994	2.3 (n=642; Males, n=509, Females, n=133) (Based on 1990 population) ^{***}	36%	64%	Land transport (58%, n=375), Sports/recreation (8%, n=27), Work-related (15%, n=98), Violence (3%, n=19), Self-harm (4% n=27) and Other/unknown (15%, n=96).
Italy (Florence)	Tucci ⁵³	1981-2010	n/r (n=1482; Males, n=823, Females, n=659)	31%	69%	Land transport (46%, n=689; [Motorcycles (28%, n=148), Cars [19%, n=103], Falls (37%, n=549),

							Sports/recreation (7%, n=102) and Other/unknown (11%, n=169).
Italy (Rome)	Scivioletto ⁵⁴	1996-2004	n/r (n=144; Males, n=116, Females, n=28)	37%	63%		Land transport (51%, n=74), Falls (28%, n=40), Sports/recreation (6%, n=8), Violence (8%, n=12) and Other/unknown (7%, n=10).
Italy (Veneto)	Caldana ⁵⁵	1994-1995	14.3 (n=127; Males, n=106, Females, n=21)	49%	51%		Land transport (57%, n=72), Falls (10%, n=13), Work-related (22%, n=28), Sports/recreation (6%, n=8), Violence (1% n=1) and Other/unknown (4%, n=5).
Netherlands	van Asbeck ⁵⁶	1994	7.5 (n=113; Males, n=87, Females, n=26)	58%	42%		Land transport (31%, n=35), Falls (49%, n=55), Work-related (4%, n=5), Sports/recreation (9%, n=10) and Other/unknown (7%, n=8).
Netherlands	Schonherr ⁵⁷	1982-1993	7.7 (n=142; Males, n=109, Females, n=33)	46%	54%		n/r
Netherlands and Belgium (Flanders)	Osterthun ⁵⁸	2002-2007	n/r (n=503; Males, n=371, Females, n=132)	50%	50%		n/r
Norway	Gjone ⁵⁹	1974-1975	16.5 (n=131; Males, n=109, Females, n=22)	53%	47%		n/r
Norway	Lidal ⁶⁰	1961-1982	4.5 approx (n=387; Males, n=321, Females, n=66)	47%	53%		Land transport (46%, n=178), Falls (32%, n=124), Sports/recreation (11%, n=43), Violence (4% n=15) and Other/unknown (7%, n=27).
Norway (Hordaland and Sogn og Flordane)	Hagen ⁶¹	1952-2001	26.3 (Annual incidence in 1997-2001; n=71); (n=336; Males, n=277, Females, n=59)	52%	48%		Land transport (34%, n=115), Falls (46%, n=153), Sports/recreation (9%, n=29), Violence (1%, n=9) and Other/unknown (10%, n=34).
Portugal (Coimbra)	Martins ⁶²	1989-1992	57.8 (Survivors plus those who died, n=398; Males, n=306, Females, n=92)	52%	48%		Land transport (57%, n=228), Falls (37%, n=149) and Other/unknown (6%, n=21).
Spain	Herruzo-Cabrera ⁶³	1984-1985	8.1*** (n=208)	n/r	n/r		n/r
Spain, Aragon	Van den Berg ⁶⁴	1972-2008	12.1 (n=540; Males, n=427, Females, n=113)	37%	63%		Land transport (57%, n=308), Falls (25%, n=135) and Other/unknown (18%, n=97).
Sweden	Augutis ⁶⁵	1985-1996	4.6 (Paediatric SCI aged 0-15 yrs, n=92; Males, n=47, Females, n=45)	43%	57%		Land transport (75%, n=69), Falls (9%, n=8), Sports/recreation (13%, n=12), and Other/unknown (3%, n=3).
Sweden (Stockholm)	Divanoglou ⁴³	2006-2007	19.6 (n=49; Males, n=36, Females, n=11 [consenting cases])	45%	55%		Land transport (23%, n=11), Falls (38%, n=18), Sports/recreation (17% n=8), Self-harm (9%, n=4), Assault (2%, n=1) and Other/unknown (11%, n=5).
Switzerland	Gehrig ⁶⁶	1960-1967	15 (n=584; Males, n=461, Females, n=123)	33%	67%		Land transport (36%, n=210), Sports/recreation (19%, n=111), Work-related (35%, n=204), Self-

	Qatar	Quinones ⁷⁹	1987-1996	12.5 (n=75; Males, n=67, Females, n=8)	59%	41%	Land transport (72%, n=54), Falls (13%, n=10), Violence (assumed penetrating wound correlates: 3% n=2) and Other/unknown (12%, n=9).
	Saudi Arabia	Al-Jadid ⁸⁰	2005-2008	n/r (n=495; Males, n=404, Females, n=91)	n/r	n/r	n/r
	Saudi Arabia	Alshahri ⁸¹	2003-2008	1.6 (based on a population of 24 million; n=307 over the 8-year period; Males 271, Females 36)	52%	48%	Land transport (85%, n=261), Falls (9%, n=28), Sports/recreation (1%, n=3) and Violence (5%, n=14).
	Turkey	Karacan ⁸²	1992	12.7 (n=581; Males, n=415, Females, n=166)	32%	68%	Land transport (49%, n=284), Falls (37%, n=212), Sports/recreation (1%, n=7), Violence (5% n=30) and Other/unknown (8%, n=48).
	Turkey	Dincer ⁸³	1974-1985	n/r (n=1,694; Males, n=1,282, Females, n=412)	92%	8%	Land transport (35%, n=600), Falls (30%, n=500), Violence (24%, n=406) and Other/unknown (13%, n=188).
	Turkey (SE Anatolia)	Gul ⁸⁴	1990-1999	12.06 (Average incidence) (n=539; Males, n=416, Females, n=123)	28%	72%	Land transport (37%, n=200), Falls (32%, n=172), Violence (23%, n=115), Self-harm (3% n=15) and Other/unknown (5%, n=27).
	Turkey (Rural areas)	Karamehmetoglu ⁸⁵	1994	16.9 (n=75; Males, n=64, Females, n=11)	41%	59%	Land transport (25%, n=19), Falls (37%, n=28), Violence (31%, n=23) and Other/unknown (7%, n=5).
	Turkey (Istanbul)	Karamehmetoglu ⁸⁶	1992	21.1 (n=152; Males, n=114, Females, n=38)	33%	67%	Land transport (41%, n=62), Falls (43%, n=65), Violence (7%, n=11) and Other/unknown (5%, n=14).
North America, High Income	Canada	Farry ⁸⁷	2010	52.3 Extrapolated (n=1,785; Males, n=1,284, Females, n=501)	n/r	n/r	n/r
	Canada	Rick Hansen SCI Register ⁸⁸	2001-2002	35 (n=1,050; Males, n=840, Females, n=210)	50%	50%	Land transport (47%, n=494), Falls (17%, n=179), Sports/recreation (7%, n=74) and Other/unknown (29%, n=303).
	Canada (Ontario)	Furlan ⁸⁹	2007	38 (n=487; Males, n=408, Females, n=79)	70%	30%	Land transport (49%, n=240), Falls (20%, n=95) and Other/unknown (31%, n=152).
	Canada (Ontario)	Couris ⁹⁰	2003-2007	24 Average age-standardization [Ages 18 years and older] (n=936; Males, n=694, Females, n=242)	66%	34%	Land transport (25%, n=229), Falls (50%, n=463), Other/unknown (25%, n=229).

Canada (Southwest Ontario)	Pickett ⁹¹	1997-2001	42.4 age-adjusted rates (15-64 years) and 51.4 age-adjusted rates (65 years and older) (n=151; Males, n=112, Females, n=39)	75%	25%	Land transport (35%, n=53), Falls (31%, n=47), Sports/recreation (9%, n=14), Work-related (7%, n=10), Violence (5%, n=7), Self-harm (1%, n=2) and Other/unknown (11%, n=18).
Canada (Alberta)	Dryden ⁹²	1997–2000	52.5 (n=450; Males, n=322, Feales. n=128)	52%	48%	Land transport (56%, n=254), Falls (19%, n=86), Sports/recreation (11%, n=51), Violence (10%, n=44) and Other/unknown (4%, n=15).
Canada (Ontario)	Pickett ⁹³	1994–1999	From 37.2–46.2age standardised rates (n=2,385; Males, n=1,632, Females, n=753)	n/r	n/r	Land transport (43%, n=1,021), Falls (43%, n=1,030), Violence (2%, n=52), Self-harm (1%, n=34) and Other/unknown (11%, n=248).
Canada (Manitoba)	Hu ⁹⁴	1981-1984	290 (n=944; Males, n=570, Females, n=374)	33%	67%	n/r
Canada (Toronto)	Tator ⁹⁵	1974-1981	3.6 (n=201; Males, n=160, Females, n=41)	63%	37%	Land transport (41%, n=82), Falls (12%, n=24), Sports/recreation (23%, n=46), Work-related (14%, n=28) and Other/unknown (10%, n=21).
Canada (Toronto)	Tator ⁹⁵	1947-1973	2.3 (n=351; Males, n=287, Females, n=64)	57%	43%	Land transport (34%, n=119), Falls (10%, n=35), Sports/recreation (15%, n=54), Work-related (30% n=105) and Other/unknown (11%, n=38).
USA	NSCISC ⁹⁶	2005	40 (n=11,000 approx.; Males, n=8,756, Females, n=2,244)	53%	47%	Land transport (48%, n=5,280), Falls (23%, n=2,530), Sports/recreation (9%, n=990), Violence (14%, n=1,540) and Other/unknown (6%, n=660).
USA	Jackson ⁹⁷	1973-2003	40 (n=30,532; Males, n=24,426, Females, n=6,106)	54%	46%	Land transport (46%, n=13,923), Falls (20%, n=5,984), Sports/recreation (11%, n=3,267), Violence (18%, n=5,435) and Other/unknown (5%, n=1,923).
USA	Nobunaga ⁹⁸	1973-1998	n/r (n=25,054; Males, n=20,419, Females, n=4,635)	54%	46%	Land transport (43%, n=10,773), Falls (19%, n=4,710), Sports/recreation (11%, n=2781), Violence (19%, n=4,735) and Other/unknown (8%, n=2,055).
USA	Vitale ⁹⁹	1997, 2000	19.9 (Paediatric SCI, ages 0-18 years; n=2,909; Males, n=2,088, Females, n=821)	n/r	n/r	Land transport (56%, n=1,629), Falls (14%, n=407), Sports/recreation (8%, n=233), Violence (9%, n=262) and Other/unknown (13%, n=378).
USA	Lasfargues ¹⁰⁰	1994	38 (n=11,500 estimated; Males, n=8,015, Females, n=3,485)	n/r	n/r	n/r
USA	Ditunno ¹⁰¹	1993	38.8 (Estimated); Males 82%, Females 18%	n/r	n/r	Land transport (45%), Falls (22%), Sports/recreation (13%), Violence (16%) and

							Other/unknown (4%).
USA	Harvey ¹⁰²	1988	n/r (n=758; Males, n=538, Females, n=220)	44%	56%		Land transport (48%, n=364), Falls (17%, n=129), Sports/recreation (16%, n=121), Violence (5%, n=38) and Other/unknown (14%, n=106).
USA	Burney ¹⁰³	1982-1989	n/r (n=2,741; Males, n=2,165, Females, n=576)	55%	45%		Land transport (52%, n=1,439), Falls (20%, n=543), Violence (15%, n=400) and Other/unknown (13%, n=359).
USA	Samsa ¹⁰⁴	1940-1987	n/r (n=5,545; Male veterans)	38%	62%		Land transport (39%, n=2,163), Sports/recreation (13%, n=721), Violence (35%, n=1,941) and Other/unknown (13%, n=720).
USA	Stover ¹⁰⁵	1984	30.0 (n=10,000+; Males, n=8,000, Females, n=2,000)	52%	48%		Land transport (48%, n=4,800), Falls (21%, n=2,100), Sports/recreation (14%, n=1,400), Violence (15%, n=1,500) and Other/unknown (2%, n=200).
USA	Kalsbeek ¹⁰⁶	1974	50 (estimated n=10,000; Males, n=5,000, Females, n=5,000)	n/r	n/r		Land transport (33%, n=3,300), Falls (33%, n=3,300) and Other/unknown (34%, n=3,400).
USA	Bracken ¹⁰⁷	1970-1977	40.1 (8-year incidence)	n/r	n/r		n/r
USA (Dade County)	Calancie ¹⁰⁸	1997-2000	n/r (n=229; Males, n=175, Females, n=54)	62%	38%		Land transport (52%, n=118), Falls (20%, n=45), Sports/recreation (11%, n=26), Violence (11%, n=24) and Other/unknown (7%, n=16).
USA (Rhode Island)	Buechner ¹⁰⁹	1994-1998	56 (n=277; Males, n=185, Females, n=92)	n/r	n/r		Land transport (29%, n=80), Falls (39%, n=108), Assault (5%, n=14), Self-harm (1%, n=3) and Other/unknown (26%, n=72).
USA (Kentucky, Indiana)	Burke ¹¹⁰	1993-1998	27.1 (n=161; Males, n=121, Females, n=40)	50%	50%		Land transport (55%, n=88), Falls (23%, n=37), Violence (14%, n=23) and Other/unknown (8%, n=13).
USA (Colorado)	Johnson ¹¹¹	1994	45.1-46.3 (n=165-169)	n/r	n/r		n/r
USA (Mississippi)	Surkin ¹¹²	1992-1994	77 (n=395; Males, n=316, Females, n=79)	52%	48%		Land transport (58%, n=230), Falls (13%, n=51), Sport/recreation (4%, n=14), Violence (16%, n=62) and Other/unknown (9%, n=38).
USA (Alaska)	Warren ¹¹³	1991-1993	83 (n=139; Males, n=116, Females, n=23)	39%	61%		Land transport (53%, n=73), Falls (22%, n=30), Violence (6%, n=8), Sport/recreation (6%, n=8) and Other/unknown (13%, n=20).
USA (Utah)	Thurman ¹¹⁴	1989-1991	43 (47 cases per million, age adjusted to 1980 US pop; n=223, Males, n=169, Females, n=54)	57%	43%		Land transport (49%, n=110), Falls (21%, n=47), Sports/recreation (16%, n=35), Violence (5%, n=12) and Other/unknown (9%, n=19).
USA (Oklahoma)	Price ¹¹⁵	1988-1990	40 (n=376; Males, n=300,	57%	43%		Land transport (50%, n=189), Falls (20%, n=75),

				Females, n=76)			Sports/recreation (13%, n=48), Violence (11%, n=42) and Other/unknown (6%, n=22).
	USA (Hawaii)	Goebert ¹¹⁶	1987-1989	23.7 (Based on 1989 population of 1,245,600; n=59; Males, n=50, Females, n=9)	62%	38%	Land transport (38%, n=22), Falls (28%, n=17), Sports/recreation (19%, n=11) and Violence (15%, n=9).
	USA (New York)	MMWR ¹¹⁷	1982-1988	43 (n=5,384)	n/r	n/r	n/r
	USA (Arkansas)	Acton ¹¹⁸	1980-1989	28.5 (age-adjusted incidence; n=644; Males, n=518, Females, n=126)	44%	56%	Land transport (50%, n=319), Falls (13%, n=86), Sports/recreation (11%, n=73), Violence (11%, n=72) and Other/unknown (15%, n=94).
	USA (California)	Kraus ¹¹⁹	1970-1971	53.4 (n=619; Males, n=457, Females, n=162)	38%	62%	Land transport (56%, n=347), Falls (20%, n=124), Sports/recreation (7%, n=43), Violence (12%, n=74) and Other/unknown (5%, n=31).
	USA (Olmsted County, Minnesota)	Griffin ¹²⁰	1935-1981	54.8 (age-standardised rate; n=154; Males, n=111, Females, n=43)	51% (1950-1981)	49% (1950-1981)	Land transport (69%, n=106), Falls (13%, n=20), Sport/recreation (8%, n=12), work-related (7%, n=11) and Violence (3%, n=5).

Oceania

	Fiji Islands	Maharaj ¹²¹	1985–1994	10.0 (n=75; Males, n=65, Females, n=10)	53%	47%	Land transport (25%, n=19), Falls (39%, n=29), Sports/recreation (28%, n=21) and Other/unknown (8%, n=6).
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Sub-Saharan Africa, Southern

	South African (Southern Transvaal)	Hart ¹²²	1988-1993	n/r (n=546; Males, n=437, Females, n=109)	25%	75%	Land transport (28%, n=152), Falls (3%, n=15), Violence (62%, n=341) and Other/unknown (7%, n=38).
	South Africa (Johannesburg)	Velmahos ¹²³	1988-1992	48.5 (Median, based on 1990 population of 2,554,726; n=551; Males, n=428, Females, n=123)	10%	90%	Land transport (30%, n=165), Violence (61%, n=336) and Other/unknown (9%, n=50).
	South Africa (Cape Province)	Key ¹²⁴	1963-1967	n/r (n=300; Males, n=270, Females, n=30)	45%	55%	Land transport (34%, n=120), Falls (12%, n=37), Sports/recreation (5%, n=16), Violence (25%, n=76) and Other/unknown (24%, n=51).
	Zimbabwe	Levy ¹²⁵	1988-1994	11.7 (Based on estimated population of 11.6 million; n=136; Males, n=121, Females, n=15)	51%	49%	Land transport (50%, n=68), Falls (17%, n=23), Violence (15%, n=20) and Other/unknown (18%, n=25).

Sub-Saharan Africa, West

Nigeria (Ile-Ife)	Olasode ¹²⁶	Estimate: 2004-2006	n/r (n=71; Males, n=47, Females, n=24)	55%	18%	Land transport (89%, n=63), Violence (4%, n=3), Self-harm (1%, n=1) and Other/unknown (6%, n=5).
Nigeria (Lagos)	Obalum ¹²⁷	1992-2006	n/r (n=468; Males, n=328, Females, n=140)	30%	70%	Land transport (77%, n=362), Falls (9%, n=44), Sports/recreation (2%, n=8), Violence (11%, n=52) and Other/unknown (1%, n=2).
Nigeria (Enugu)	Nwadinigwe ¹²⁸	1996-2001	n/r (n=104; Males, n=88, Females, n=16)	67%	33%	Land transport (58%, n=60), Falls (24%, n=25), Violence (12%, n=120 and Other/unknown (6%, n=7).
Nigeria (Enugu)	Nwankwo ¹²⁹	1996-2000	n/r (n=74)	51%	49%	n/r
Nigeria (Ilorin)	Solagberu ¹³⁰	1995-1999	n/r (n=39; Males, n=36, Females, n=3)	46%	54%	Land transport (67%, n=26), Falls (23%, n=9) and Other/unknown (10%, n=4).
Nigeria (Plateau State)	Igun ¹³¹	1984-1997	<i>5 cases per year</i> (n=68; Males, n=62, Females, n=6)	63%	37%	Land transport (57%, n=39), Falls (22%, n=15), Work-related (18%, n=12) and Violence (3%, n=2).
Nigeria (Zaria)	Iwegbu ¹³²	1973-1982	n/r (n=48; Males, n=42, Females, n=6)	16%	84%	Land transport (75%, n=36), Falls (8%, n=4) and Other/unknown (17%, n=6).
Sierra Leone	Gosselin ¹³³	2002-2004	3.4*** (n=24; Males, n=22, Females, n=2)	42%	58%	Land transport (50%, n=12), Fall (42%, n=10) and Other/unknown (8%, n=2).

* n/r: Not reported

** Figures in italics indicate 'Incidence per million population per year' was not available

*** Source/: Population Division of the Department of Economic and Social Affairs of the United Nations Secretariat, /World Population Prospects: The 2008 Revision/, <http://esa.un.org/unpp>

**** Source: http://en.wikipedia.org/wiki/São_Paulo#Population_growth

***** Estimated incidence based on 1986-2007 case counts (3,289) and 2007 Brazilian population of 190,010,647.

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