

## Poisoning and Toxic Effects

Poisoning and toxic effects accounted for 6 percent of all injury hospital discharges in 1979 and 11 percent in 2001. Poisoning was the largest component of system wide injuries. In 1979 poisonings accounted for about one-half of the system wide injury discharges and for 70 percent in 2001. Toxic effects accounted for 18 percent of system wide injuries in 1979 and 11 percent in 2001 (Appendix table 9d).

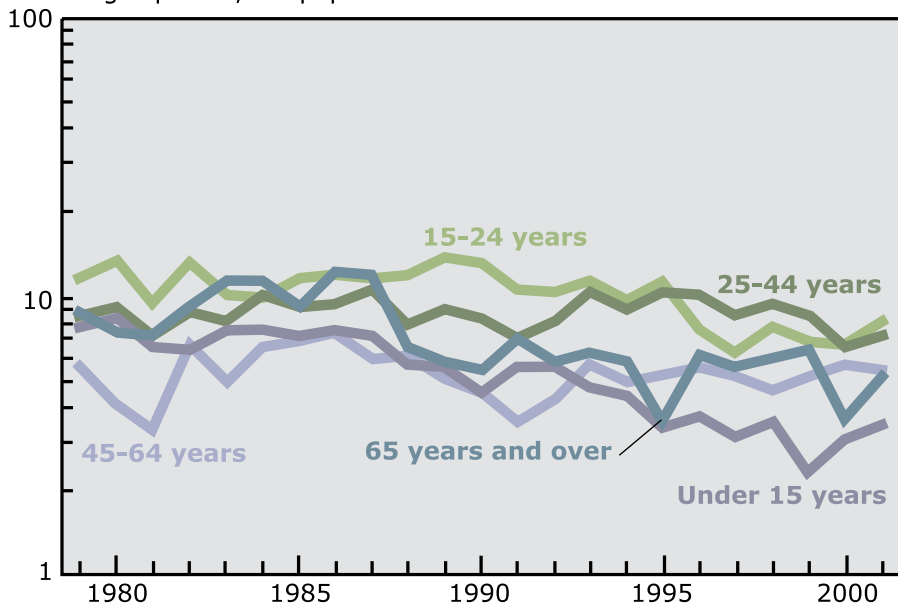
From 1979 to 2001 poisoning and toxic effects discharge rates decreased for males and females under 15 years of age, for males aged 15–24 years, and for males and females 65 years and over.

From 1979 to 2001 the overall hospitalization rates for poisoning and toxic effects for males and females were generally similar.

In 2001 over one-half of those hospitalized for poisoning and toxic effects had either poisoning by analgesics, antipyretics, and antirheumatics (ICD-9-CM code 965) or poisoning by psychotropic drugs (ICD-9-CM code 969).

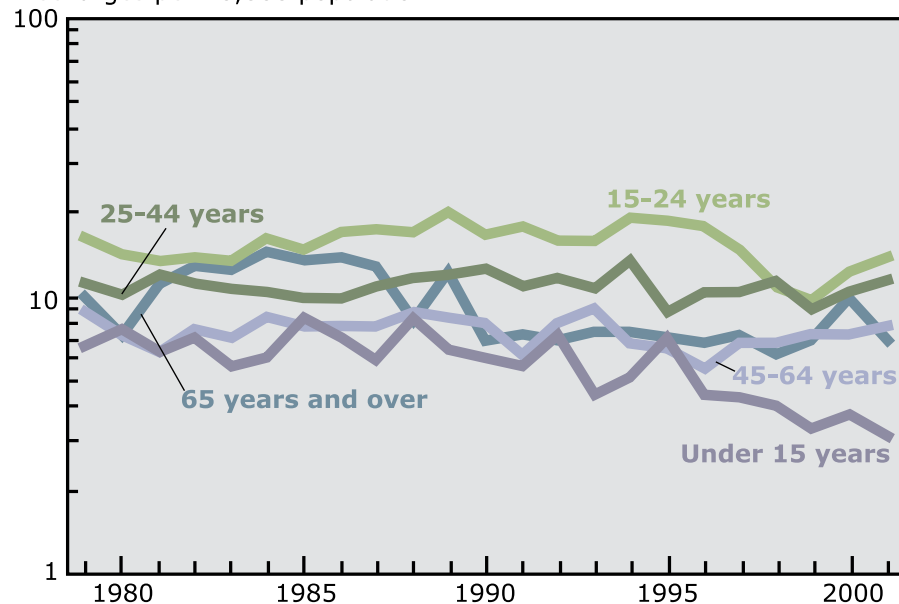
**Figure 12. Poisoning and toxic effects hospital discharge rates among males by age, 1979-2001**

Discharges per 10,000 population



**Figure 13. Poisoning and toxic effects hospital discharge rates among females by age, 1979-2001**

Discharges per 10,000 population



NOTES: Data are plotted on the log scale. See data table for data points graphed and additional notes. See "Appendix B" for the ICD-9-CM diagnosis codes for poisoning and toxic effects.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Discharge Survey.

**Data table for figure 12. Poisoning and toxic effects hospital discharges among males by age, 1979-2001**

Year	Under 15 years			15-24 years			25-44 years			45-64 years			65 years and over			
	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	
1979	20	7.7	0.9	24	11.6	1.3	25	8.5	1.0	12	5.5	0.8	*9	*8.7	*1.3	
1980	22	8.4	1.0	28	13.4	1.6	28	9.2	1.1	*9	*4.1	*0.6	*8	*7.5	*1.2	
1981	17	6.5	0.7	19	9.5	1.0	23	7.3	0.8	*7	*3.3	*0.4	*8	*7.3	*0.9	
1982	17	6.5	0.7	27	13.3	1.3	28	8.7	0.9	14	6.7	0.8	10	9.3	1.2	
1983	20	7.6	0.8	20	10.1	1.0	27	8.1	0.8	10	4.9	0.6	13	11.5	1.4	
1984	20	7.5	0.6	20	9.9	0.9	35	10.0	0.7	14	6.6	0.6	13	11.3	1.1	
1985	19	7.2	0.6	23	11.7	1.0	33	9.2	0.7	15	6.9	0.7	10	9.2	1.0	
1986	20	7.6	0.6	23	11.8	0.9	35	9.5	0.7	16	7.5	0.7	14	12.3	1.1	
1987	19	7.3	0.6	22	11.6	1.0	40	10.7	0.8	13	6.0	0.6	14	12.1	1.2	
1988	15	5.8	0.9	22	12.0	1.5	31	8.1	0.8	13	6.2	1.0	*8	*6.6	*1.3	
1989	15	5.5	1.0	26	13.9	2.2	35	9.1	0.8	11	5.0	0.9	*7	*5.8	*1.4	
1990	13	4.4	0.8	25	13.2	1.6	33	8.3	0.9	10	4.5	0.8	*7	*5.4	*1.4	
1991	16	5.6	0.9	20	10.6	1.5	29	7.2	0.7	*8	*3.6	*0.6	*9	*7.0	*1.4	
1992	17	5.6	0.9	19	10.3	1.3	34	8.2	0.8	10	4.3	0.7	*8	*5.9	*1.2	
1993	14	4.7	1.0	21	11.4	1.5	43	10.3	0.9	14	5.6	0.8	*8	*6.3	*1.6	
1994	13	4.4	0.7	18	9.7	1.7	37	9.0	0.8	12	5.0	0.8	*8	*5.8	*1.7	
1995	10	3.4	0.6	21	11.4	1.6	44	10.5	1.1	13	5.2	0.8	*	*	*	
1996	11	3.7	0.7	14	7.7	1.1	42	10.1	1.0	14	5.6	0.8	*9	*6.2	*1.8	
1997	10	3.1	0.6	12	6.2	1.1	36	8.6	0.8	14	5.1	0.7	*8	*5.6	*1.1	
1998	11	3.5	0.8	15	7.8	1.1	39	9.4	1.5	13	4.6	0.8	*8	*5.9	*1.1	
1999	*7	*2.3	*0.5	14	7.0	1.1	36	8.6	0.9	15	5.2	0.8	9	6.4	1.3	
2000	9	3.1	0.7	13	6.8	1.2	27	6.7	0.9	17	5.6	0.9	*5	*3.6	*0.7	
2001	11	3.5	0.7	16	8.1	1.1	30	7.2	1.1	17	5.5	0.9	*8	*5.2	*1.1	
Average annual percent change		-4.6			-1.9			**	-0.2			**	-0.5			-3.7
Average percent change		-64.4			-35.1			**	-3.6			**	-10.1			-56.3

SE is standard error.

\*Figure does not meet standard of reliability or precision ("Appendix A," Standards of reliability).

\*\*Not significant.

NOTES: See "Appendix B" for the ICD-9-CM diagnosis codes.

Average annual percent change is from 1979-2001 ("Appendix A," Test of trend).

Average percent change is for 1979-2001 ("Appendix A," Average percent change over time).

Rate per 10,000 civilian resident population.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Discharge Survey.

**Data table for figure 13. Poisoning and toxic effects hospital discharges among females by age, 1979-2001**

Year	Under 15 years			15-24 years			25-44 years			45-64 years			65 years and over		
	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE
1979	17	6.6	0.8	34	16.1	1.7	34	11.1	1.2	20	8.7	1.0	15	9.8	1.3
1980	19	7.6	1.0	29	14.0	1.6	32	10.1	1.1	17	7.3	1.0	11	7.3	1.1
1981	16	6.3	0.7	28	13.3	1.3	39	11.9	1.1	15	6.4	0.7	17	11.1	1.2
1982	18	7.1	0.8	28	13.9	1.4	38	11.1	1.0	18	7.6	0.8	21	12.8	1.4
1983	14	5.6	0.6	27	13.4	1.3	37	10.7	0.9	16	7.1	0.8	20	12.5	1.3
1984	15	6.0	0.6	32	16.2	1.2	37	10.3	0.7	19	8.3	0.7	24	14.4	1.2
1985	21	8.3	0.7	29	14.6	1.1	36	9.9	0.7	18	7.7	0.7	23	13.4	1.1
1986	18	7.0	0.6	33	17.2	1.2	37	9.9	0.7	18	7.9	0.7	24	13.9	1.1
1987	15	5.8	0.6	33	17.5	1.3	42	10.9	0.8	18	7.8	0.7	23	12.7	1.1
1988	22	8.5	1.5	32	17.2	1.7	46	11.7	1.3	21	8.7	1.3	15	8.2	1.5
1989	17	6.5	1.0	36	19.9	2.3	48	12.1	1.3	20	8.4	1.1	22	12.1	2.5
1990	16	6.0	0.9	31	16.5	1.5	51	12.4	1.3	19	8.0	1.1	13	6.9	1.2
1991	16	5.6	0.8	33	17.9	1.9	45	10.8	1.1	15	6.2	1.0	14	7.3	1.4
1992	21	7.3	1.2	29	15.9	2.0	49	11.7	1.0	20	8.0	1.2	13	7.0	1.3
1993	13	4.4	0.7	29	15.9	2.0	44	10.6	1.0	23	8.9	1.3	14	7.4	1.3
1994	15	5.1	0.9	34	19.0	2.0	57	13.4	1.1	18	6.8	0.9	14	7.4	1.4
1995	21	7.1	1.4	34	18.8	2.1	37	8.7	0.8	17	6.4	1.0	14	7.2	1.0
1996	13	4.4	0.9	32	17.8	2.0	44	10.4	0.8	15	5.5	0.7	13	6.7	1.0
1997	13	4.3	0.7	27	14.9	1.7	44	10.4	0.9	19	6.8	1.0	14	7.2	1.1
1998	12	4.0	0.7	20	10.8	1.4	48	11.3	1.1	20	6.7	0.8	12	6.1	1.0
1999	10	3.3	0.6	18	9.7	1.4	38	9.0	1.0	22	7.2	1.0	14	6.9	1.1
2000	11	3.8	0.7	23	12.2	1.6	43	10.3	1.0	23	7.2	1.0	20	9.8	1.6
2001	9	3.2	0.7	27	13.8	1.7	48	11.3	1.0	26	7.8	1.0	15	7.1	1.2
Average annual percent change	-2.9			** -0.2			** -0.1			** -0.5			-3.2		
Average percent change	-47.2			** -4.1			** -1.3			** -11.0			-50.6		

SE is standard error.  
 \*\*Not significant.

NOTES: See "Appendix B" for the ICD-9-CM diagnosis codes.  
 Average annual percent change is from 1979-2001 ("Appendix A," Test of trend).  
 Average percent change is for 1979-2001 ("Appendix A," Average percent change over time).  
 Rate per 10,000 civilian resident population.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Discharge Survey.

**Appendix table 12a. Poisoning and toxic effects hospital discharges by diagnosis, 1979-2001**

Year	Poisoning by analgesics, antipyretics, and antirheumatics			Poisoning by psychotropic agents			Poisoning by agents primarily affecting the cardiovascular system			Poisoning by other and unspecified drugs and medicinal substances			Toxic effects of other substances, chiefly nonmedicinal as to source			All other poisoning and toxic effect diagnoses		
	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE
1979	21	1.0	0.1	32	1.4	0.1	14	0.6	0.1	58	2.6	0.2	23	1.0	0.1	61	2.7	0.3
1980	19	0.8	0.1	29	1.3	0.1	12	0.5	0.1	56	2.5	0.2	20	0.9	0.1	67	3.0	0.3
1981	19	0.8	0.1	31	1.4	0.1	17	0.8	0.1	47	2.0	0.2	18	0.8	0.1	58	2.5	0.2
1982	23	1.0	0.1	30	1.3	0.1	20	0.9	0.1	58	2.5	0.2	17	0.8	0.1	70	3.1	0.3
1983	21	0.9	0.1	26	1.1	0.1	17	0.7	0.1	47	2.0	0.2	17	0.7	0.1	78	3.4	0.2
1984	24	1.0	0.1	31	1.3	0.1	21	0.9	0.1	49	2.1	0.1	26	1.1	0.1	77	3.3	0.2
1985	30	1.3	0.1	36	1.5	0.1	15	0.6	0.1	41	1.8	0.1	18	0.8	0.1	87	3.7	0.2
1986	29	1.2	0.1	43	1.8	0.1	17	0.7	0.1	41	1.7	0.1	18	0.7	0.1	91	3.8	0.2
1987	34	1.4	0.1	47	2.0	0.1	18	0.8	0.1	37	1.5	0.1	20	0.8	0.1	84	3.5	0.2
1988	40	1.7	0.2	59	2.4	0.2	16	0.6	0.1	19	0.8	0.1	13	0.5	0.1	78	3.2	0.2
1989	44	1.8	0.2	61	2.5	0.2	17	0.7	0.2	22	0.9	0.1	12	0.5	0.1	82	3.3	0.3
1990	40	1.6	0.2	61	2.4	0.2	10	0.4	0.1	13	0.5	0.1	12	0.5	0.1	82	3.3	0.2
1991	38	1.5	0.1	54	2.1	0.2	10	0.4	0.1	11	0.4	0.1	11	0.4	0.1	80	3.1	0.2
1992	36	1.4	0.1	62	2.4	0.2	13	0.5	0.1	11	0.4	0.1	14	0.5	0.2	82	3.2	0.3
1993	37	1.4	0.1	66	2.5	0.2	11	0.4	0.1	16	0.6	0.1	10	0.4	0.1	83	3.2	0.2
1994	47	1.8	0.2	69	2.6	0.2	10	0.4	0.1	15	0.6	0.1	*7	*0.3	*0.1	78	3.0	0.2
1995	47	1.8	0.2	59	2.2	0.2	*9	*0.3	*0.1	15	0.5	0.1	*8	*0.3	*0.1	78	3.0	0.2
1996	51	1.9	0.2	57	2.1	0.2	10	0.4	0.1	12	0.5	0.1	*8	*0.3	*0.1	72	2.7	0.2
1997	34	1.3	0.1	57	2.1	0.2	10	0.4	0.1	14	0.5	0.1	10	0.4	0.1	72	2.7	0.2
1998	38	1.4	0.1	61	2.2	0.2	*7	*0.2	*0.0	12	0.4	0.1	*8	*0.3	*0.1	72	2.6	0.2
1999	38	1.4	0.1	53	1.9	0.2	*9	*0.3	*0.1	10	0.4	0.1	*7	*0.2	*0.1	66	2.4	0.2
2000	49	1.8	0.2	51	1.8	0.1	*8	*0.3	*0.0	11	0.4	0.1	*9	*0.3	*0.1	65	2.3	0.2
2001	50	1.8	0.1	60	2.1	0.2	9	0.3	0.1	12	0.4	0.1	10	0.4	0.1	65	2.3	0.2
Average annual percent change		2.7			2.7			-5.1			-10.1			-6.4			-1.5	
Average percent change	80.8			79.0			-68.5			-90.3			-76.9			-28.6		

SE is standard error.

\* Figure does not meet standard of reliability or precision ("Appendix A," Standards of reliability).

NOTES: Poisoning by analgesics, antipyretics, and antirheumatics - ICD-9-CM code 965

Poisoning by psychotropic agents - ICD-9-CM code 969

Poisoning by agents primarily affecting the cardiovascular system - ICD-9-CM code 972

Poisoning by other and unspecified drugs and medicinal substances - ICD-9-CM code 977

Toxic effects of other substances, chiefly nonmedicinal as to source - ICD-9-CM code 989

All other poisoning and toxic effect diagnoses - ICD-9-CM codes 960-964, 966-968, 970-971, 973-976, 978-988

Average annual percent change is from 1979-2001, ("Appendix A," Test of trend).

Average percent change is for 1979-2001, ("Appendix A," Average percent change over time).

Rate per 10,000 civilian resident population.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Discharge Survey.

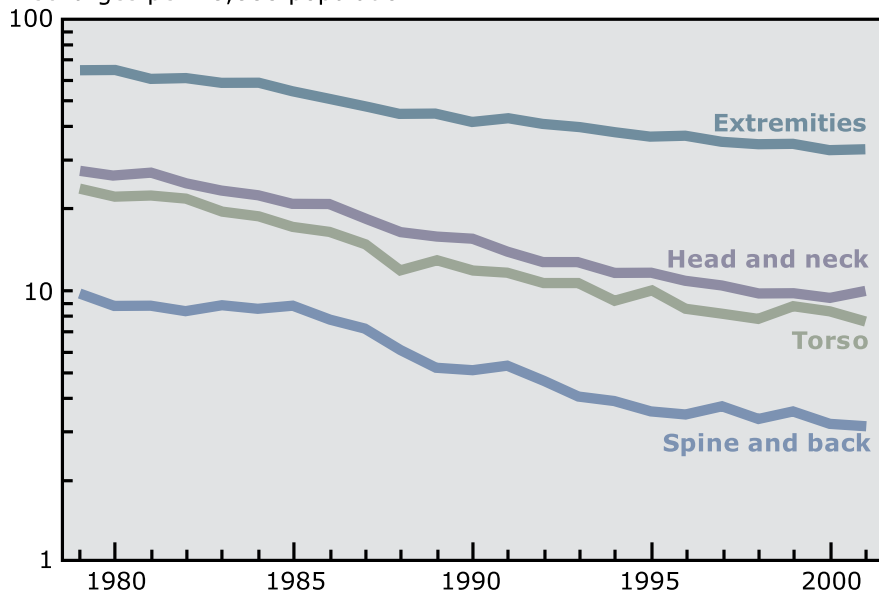
## Discharges by Body Region

Another dimension of the Barell Matrix is the body region of the injury. The body region of the injury can be categorized at various levels of detail, with the four major body regions being: head and neck, spine and back, torso, and extremities.

From 1979 to 2001 injury hospital discharge rates decreased for each of the major body regions. Extremity injury rates were higher than the rates for the other body regions and declined on average 3.4 percent per year (for a total decrease of 53 percent) to 32.8 per 10,000 population in 2001. Rates were lower for the other major body region categories, but their relative declines were larger. From 1979 to 2001 the average annual percent decrease for head and neck, spine and back, and torso injury hospital discharge rates ranged from 5.4 to 5.8 percent per year (for total decreases of 71–73 percent) to 10.0, 3.2, and 7.7 per 10,000 population, respectively in 2001.

**Figure 14. Injury hospital discharge rates by body region of injury, 1979-2001**

Discharges per 10,000 population



NOTES: Data are plotted on the log scale. See data table for data points graphed and additional notes. Discharge rates are age adjusted using the 2000 standard population ([“Appendix A, Age adjustment”](#)). See [“Appendix B”](#) for the ICD-9-CM diagnosis codes in each category.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Discharge Survey.

**Data table for figure 14. Injury hospital discharges by body region of injury, 1979-2001**

Year	Head and neck			Spine and back			Torso			Extremities			Other and unspecified site		
	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE
1979	655	28.0	1.7	210	9.7	0.7	514	23.9	1.5	1,431	64.7	3.4	183	8.1	0.6
1980	630	26.8	1.7	193	8.8	0.7	491	22.5	1.5	1,438	64.2	3.5	174	7.6	0.6
1981	644	27.2	1.8	196	8.8	0.7	496	22.2	1.5	1,382	61.2	3.7	170	7.3	0.6
1982	594	24.9	1.4	189	8.3	0.6	487	21.7	1.3	1,385	60.8	3.1	176	7.6	0.5
1983	563	23.4	1.1	200	8.7	0.5	445	19.5	1.0	1,334	58.1	2.3	174	7.4	0.4
1984	545	22.5	0.9	199	8.5	0.4	439	18.9	0.8	1,339	57.8	1.9	162	6.8	0.3
1985	509	20.9	0.8	207	8.8	0.4	406	17.3	0.7	1,280	54.7	1.8	128	5.3	0.3
1986	513	20.9	0.8	188	7.9	0.4	395	16.6	0.7	1,212	51.3	1.7	111	4.6	0.2
1987	456	18.4	0.8	176	7.3	0.4	355	14.7	0.7	1,139	47.6	1.6	93	3.8	0.2
1988	409	16.5	0.9	148	6.1	0.5	291	11.9	0.7	1,073	44.4	2.2	86	3.5	0.4
1989	395	15.7	0.9	127	5.2	0.4	315	12.9	0.7	1,094	44.9	2.4	71	2.9	0.3
1990	395	15.3	0.9	128	5.1	0.4	301	12.0	0.6	1,051	42.3	1.9	58	2.3	0.3
1991	361	14.0	1.0	134	5.3	0.4	294	11.6	0.6	1,072	42.8	2.0	47	1.8	0.2
1992	333	12.7	0.7	120	4.7	0.4	274	10.8	0.5	1,035	40.7	2.0	39	1.5	0.2
1993	336	12.8	0.8	107	4.1	0.3	274	10.6	0.7	1,039	40.5	2.3	40	1.6	0.3
1994	310	11.7	0.7	103	4.0	0.3	237	9.1	0.5	989	38.1	1.9	43	1.6	0.2
1995	311	11.6	0.7	95	3.6	0.3	264	10.0	0.6	959	36.6	2.0	37	1.4	0.2
1996	291	10.8	0.7	93	3.5	0.3	230	8.6	0.5	975	36.8	1.8	32	1.2	0.2
1997	283	10.5	0.7	101	3.8	0.3	219	8.2	0.4	949	35.5	1.7	21	0.8	0.1
1998	265	9.7	0.6	92	3.4	0.2	216	8.0	0.4	924	34.2	1.6	*	*	*
1999	272	9.9	0.7	99	3.6	0.3	241	8.8	0.6	941	34.5	2.0	*	*	*
2000	258	9.3	0.6	88	3.2	0.3	234	8.5	0.5	908	33.0	2.0	*	*	*
2001	283	10.0	0.6	90	3.2	0.2	218	7.7	0.4	926	32.8	1.8	*	*	*
Average annual percent change		-5.4			-5.8			-5.5			-3.4			-11.9	
Average percent change		-70.6			-73.4			-70.9			-53.0			-93.8	

SE is standard error.

\* Figure does not meet standard of reliability or precision ("Appendix A," Standards of reliability).

NOTES: Discharge rates are age adjusted using the 2000 standard population ("Appendix A," Age adjustment).

□

See "Appendix B" for the ICD-9-CM diagnosis codes in each category.

Average annual percent change is from 1979-2001 ("Appendix A," Test of trend).

Average percent change is for 1979-2001 ("Appendix A," Average percent change over time).

Rate per 10,000 civilian resident population.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Discharge Survey.

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**Appendix table 14a. Injury hospital discharges by body region of injury, 1979-2001**

Year	Extremities			Head and neck			Torso			Spine and back			Other and unspecified		
	Number in thousands	Percent	Percent SE	Number in thousands	Percent	Percent SE	Number in thousands	Percent	Percent SE	Number in thousands	Percent	Percent SE	Number in thousands	Percent	Percent SE
1979	1,431	43.4	1.0	655	19.8	0.7	514	15.6	0.6	210	6.4	0.4	183	5.5	0.3
1980	1,438	44.3	1.1	630	19.4	0.8	491	15.1	0.6	193	5.9	0.4	174	5.4	0.3
1981	1,382	43.2	1.0	644	20.1	0.7	496	15.5	0.6	196	6.1	0.3	170	5.3	0.3
1982	1,385	43.7	0.9	594	18.7	0.6	487	15.4	0.6	189	6.0	0.3	176	5.6	0.3
1983	1,334	43.9	0.8	563	18.5	0.6	445	14.6	0.5	200	6.6	0.3	174	5.7	0.3
1984	1,339	44.2	0.7	545	18.0	0.5	439	14.5	0.4	199	6.6	0.3	162	5.3	0.2
1985	1,280	45.0	0.7	509	17.9	0.5	406	14.3	0.4	207	7.3	0.3	128	4.5	0.2
1986	1,212	44.2	0.7	513	18.7	0.5	395	14.4	0.4	188	6.9	0.3	111	4.1	0.2
1987	1,139	44.9	0.7	456	18.0	0.5	355	14.0	0.5	176	6.9	0.3	93	3.7	0.2
1988	1,073	46.3	1.0	409	17.6	0.6	291	12.5	0.6	148	6.4	0.4	86	3.7	0.3
1989	1,094	47.4	1.0	395	17.1	0.6	315	13.7	0.6	127	5.5	0.3	71	3.1	0.3
1990	1,051	47.4	1.0	395	17.8	0.7	301	13.6	0.5	128	5.8	0.4	58	2.6	0.3
1991	1,072	49.4	1.1	361	16.7	0.9	294	13.6	0.5	134	6.2	0.4	47	2.2	0.3
1992	1,035	49.8	1.1	333	16.0	0.7	274	13.2	0.5	120	5.8	0.4	39	1.9	0.3
1993	1,039	50.1	1.1	336	16.2	0.7	274	13.2	0.7	107	5.1	0.3	40	1.9	0.4
1994	989	50.4	1.0	310	15.8	0.8	237	12.1	0.5	103	5.2	0.4	43	2.2	0.3
1995	959	49.6	1.3	311	16.1	0.7	264	13.6	0.6	95	4.9	0.4	37	1.9	0.3
1996	975	51.7	1.0	291	15.4	0.7	230	12.2	0.5	93	4.9	0.3	32	1.7	0.3
1997	949	52.1	1.2	283	15.6	0.7	219	12.0	0.5	101	5.5	0.4	21	1.2	0.1
1998	924	51.6	1.2	265	14.8	0.7	216	12.1	0.6	92	5.1	0.3	*	*	*
1999	941	51.7	1.4	272	14.9	0.9	241	13.3	0.5	99	5.4	0.4	*	*	*
2000	908	51.7	1.3	258	14.7	0.8	234	13.3	0.6	88	5.0	0.3	*	*	*
2001	926	51.1	1.2	283	15.6	0.7	218	12.0	0.5	90	5.0	0.3	*	*	*
Average annual percent change		1.0			-1.3			-1.1			-1.4			-7.2	
Average percent change		25.6			-25.8			-21.6			-27.3			-80.5	

SE is standard error.

\* Figure does not meet standard of reliability or precision ("Appendix A," Standards of reliability).

NOTES: Num b □

"Appendix B" for the ICD-9-CM diagnosis codes in each category.

Average annual percent change is from 1979-2001 ("Appendix A," Test of trend).

Average percent change is for 1979-2001 ("Appendix A," Average percent change).

[Appendix table 9a.](#) See

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Discharge Survey.

**Appendix table 14b. Torso injury hospital discharges among males by age, 1979-2001**

Year	Under 15 years			15-24 years			25-44 years			45-64 years			65 years and over		
	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE
1979	14	5.5	0.7	66	32.0	2.9	118	40.1	3.2	64	30.3	2.8	32	31.4	3.4
1980	18	6.9	0.9	57	27.5	2.7	112	36.6	3.1	64	30.2	2.9	30	29.0	3.3
1981	14	5.3	0.6	70	34.0	2.9	106	33.6	2.7	61	28.8	2.5	31	29.2	2.9
1982	17	6.4	0.7	55	26.9	1.9	106	32.4	2.5	54	25.7	1.9	30	28.0	2.7
1983	18	6.7	0.7	51	25.4	2.1	103	30.7	2.1	54	25.5	2.0	33	29.9	2.7
1984	13	5.1	0.5	61	31.1	2.0	93	26.9	1.5	44	20.5	1.4	30	27.2	2.1
1985	13	4.8	0.5	46	23.5	1.6	97	27.1	1.6	47	22.3	1.5	30	26.2	2.0
1986	17	6.5	0.6	50	26.0	1.7	99	27.0	1.5	44	20.8	1.4	29	24.5	1.8
1987	20	7.5	0.7	49	25.8	1.8	80	21.4	1.3	34	15.8	1.2	24	20.5	1.7
1988	9	3.5	0.5	37	19.6	2.1	68	17.9	1.6	28	13.1	1.6	23	19.3	2.9
1989	15	5.4	0.9	41	22.2	2.0	79	20.5	2.0	36	16.2	2.1	25	19.9	2.8
1990	12	4.2	0.6	38	20.0	1.8	72	17.8	1.5	29	13.1	1.5	20	16.1	1.9
1991	10	3.4	0.6	37	19.8	1.7	68	16.6	1.3	32	14.2	1.4	20	16.1	2.5
1992	10	3.3	0.6	37	19.9	2.1	54	13.0	1.1	29	12.3	1.5	26	20.0	2.4
1993	11	3.6	0.6	37	20.0	2.9	54	12.9	1.3	25	10.5	1.3	32	24.1	3.7
1994	11	3.6	0.7	29	15.7	1.6	45	10.9	1.3	28	11.6	1.6	25	18.4	2.4
1995	10	3.2	0.6	36	19.2	2.1	54	13.0	1.3	24	9.6	1.3	27	19.8	2.9
1996	*8	*2.8	*0.5	25	13.5	1.5	51	12.1	1.5	29	11.2	1.4	23	17.0	1.9
1997	*9	*2.9	*0.5	22	11.5	1.5	38	9.1	0.8	29	10.8	1.1	23	16.3	2.0
1998	10	3.2	0.7	22	11.5	1.3	37	8.9	0.9	23	8.2	1.3	24	16.9	2.3
1999	14	4.6	0.9	22	11.2	1.3	45	10.8	1.2	27	9.6	1.5	29	20.1	2.6
2000	14	4.6	0.8	21	10.8	1.5	43	10.5	1.1	21	7.2	0.9	30	20.9	2.6
2001	10	3.2	0.7	24	11.9	1.8	34	8.2	0.9	26	8.3	1.0	28	19.4	2.3
Average annual percent change	-3.4			-4.9			-7.2			-6.4			-2.7		
Average percent change	-52.9			-66.9			-80.6			-76.5			-44.8		

SE is standard error.

\*Figure does not meet standard of reliability or precision ("Appendix A," Standards of reliability).

NOTES: See "Appendix B" for the ICD-9-CM diagnosis codes.

Average annual percent change is from 1979-2001 ("Appendix A," Test of trend).

Average percent change is for 1979-2001 ("Appendix A," Average percent change over time).

Rate per 10,000 civilian resident population.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Discharge Survey.



**Appendix table 14c. Torso injury hospital discharges among females by age, 1979-2001**

Year	Under 15 years			15-24 years			25-44 years			45-64 years			65 years and over		
	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE
1979	9	3.7	0.5	27	13.1	1.5	71	23.0	2.1	57	24.4	2.3	55	36.7	3.5
1980	10	4.0	0.6	26	12.2	1.4	58	18.1	1.8	52	22.2	2.2	65	42.0	4.0
1981	11	4.5	0.5	24	11.6	1.2	66	20.0	1.7	45	19.4	1.8	68	43.1	3.7
1982	11	4.5	0.5	24	11.8	1.2	73	21.4	1.8	49	21.1	1.9	68	42.7	3.4
1983	*7	*2.6	*0.4	20	9.7	1.0	59	16.8	1.3	39	16.6	1.4	63	38.3	2.9
1984	*8	*3.1	*0.4	16	8.2	0.7	59	16.5	1.1	45	19.1	1.3	69	41.2	2.5
1985	9	3.7	0.4	22	11.4	1.0	46	12.5	0.9	35	15.1	1.1	61	35.8	2.3
1986	*6	*2.2	*0.3	19	9.6	0.8	43	11.4	0.8	34	14.6	1.0	54	31.2	2.0
1987	*6	*2.5	*0.3	15	8.1	0.8	39	10.1	0.7	30	12.8	1.0	57	32.0	2.1
1988	*9	*3.4	*0.7	17	9.4	1.2	32	8.2	1.2	20	8.5	1.0	46	25.5	2.4
1989	*7	*2.6	*0.6	15	8.4	1.2	27	6.7	0.8	24	10.0	1.4	48	26.0	2.6
1990	*5	*1.9	*0.4	13	6.9	1.0	36	8.8	1.0	23	9.5	1.2	54	29.3	2.6
1991	*	*	*	14	7.6	1.3	31	7.4	0.9	20	8.4	1.1	57	30.7	3.2
1992	*7	*2.6	*0.5	16	8.7	1.7	24	5.8	0.7	21	8.5	1.3	51	26.7	2.4
1993	*6	*2.2	*0.5	14	7.5	1.2	23	5.4	0.8	16	6.5	0.9	56	29.2	3.1
1994	*	*	*	*7	*4.0	*0.6	19	4.5	0.7	18	6.9	1.1	50	25.6	2.7
1995	*	*	*	13	7.4	1.4	20	4.6	0.7	16	6.1	0.9	59	30.1	3.0
1996	*5	*1.8	*0.4	*8	*4.5	*0.8	16	3.8	0.6	14	5.2	0.8	49	24.7	2.9
1997	*	*	*	14	7.8	1.3	16	3.8	0.6	13	4.5	0.6	52	26.1	2.1
1998	*	*	*	*8	*4.4	*1.0	18	4.3	0.6	15	5.0	0.7	54	27.1	2.1
1999	*5	*1.7	*0.4	*8	*4.3	*0.8	19	4.5	0.6	13	4.3	0.7	59	29.6	2.9
2000	*6	*2.0	*0.6	*6	*3.0	*0.6	15	3.6	0.6	14	4.4	0.8	63	31.2	3.2
2001	*6	*2.0	*0.5	*6	*3.1	*0.9	12	2.8	0.5	16	4.7	0.7	57	27.3	2.2
Average annual percent change		-5.0			-5.1			-9.4			-8.4			-2.1	
Average percent change		-67.6			-68.6			-88.6			-85.3			-37.9	

SE is standard error.

\* Figure does not meet standard of reliability or precision (["Appendix A," Standards of reliability](#)).

NOTES: See ["Appendix B"](#) for the ICD-9-CM diagnosis codes.

Average annual percent change is from 1979-2001 (["Appendix A," Test of trend](#)).

Average percent change is for 1979-2001 (["Appendix A," Average percent change over time](#)).

Rate per 10,000 civilian resident population.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Discharge Survey.

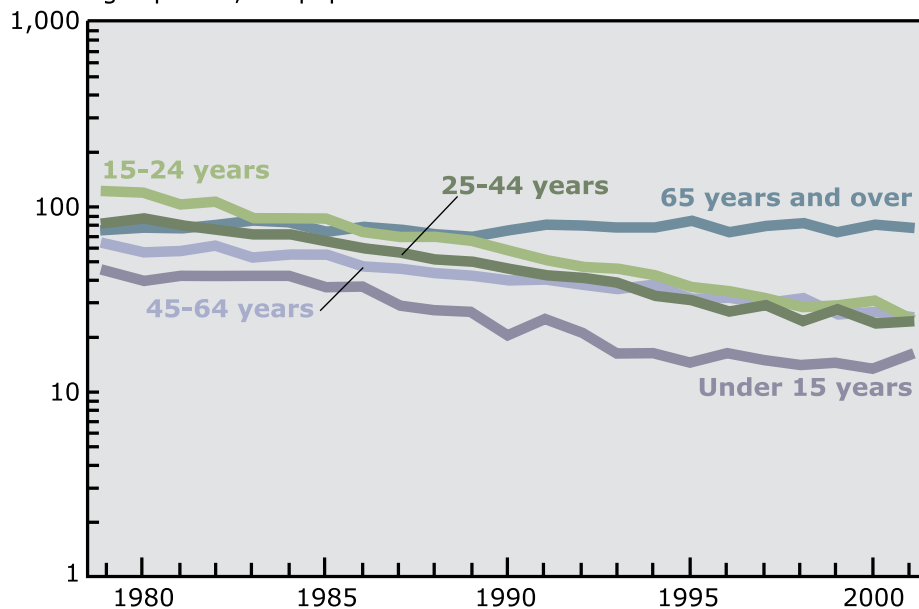
# Extremity Injuries

Extremity injuries accounted for 43 to 52 percent of all injury hospital discharges from 1979 to 2001 (data not shown). For both males and females under 65 years of age, discharge rates for both upper and lower extremity injuries declined from 1979 to 2001; the average annual percent decrease ranged from 3.7 to 6.9 percent per year (for total declines ranging from 56 to 79 percent). In contrast, the rates for males and females 65 years of age and over remained unchanged. For patients under 45 years of age, extremity injury discharge rates were higher for males than for females. Females 65 years of age and over had the highest discharge rate for extremity injury.

From 1979 to 2001 the percent of extremity injury hospital discharges that were upper extremity decreased on average 2.1 percent per year (for a total decline of 38 percent) to 25 percent in 2001. The percent that were hip injuries increased 4.2 percent per year (for a total increase of 148 percent) to 37 percent in 2001, and lower extremity injuries other than hip injuries decreased on average 1.0 percent per year (for a total decrease of 20 percent). (Appendix table 16c)

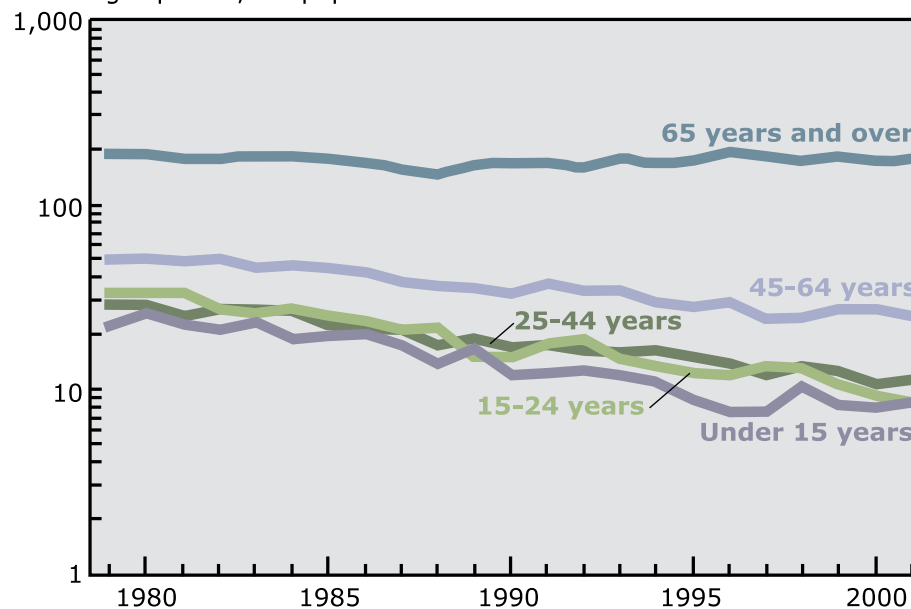
**Figure 15. Extremity injury hospital discharge rates among males by age, 1979-2001**

Discharges per 10,000 population



**Figure 16. Extremity injury hospital discharge rates among females by age, 1979-2001**

Discharges per 10,000 population



NOTES: Data are plotted on the log scale. See data table for data points graphed and additional notes. See "Appendix B" for the ICD-9-CM diagnosis codes for extremity injuries.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Discharge Survey.

**Data table for figure 15. Extremity injury hospital discharges among males by age, 1979-2001**

Year	Under 15 years			15-24 years			25-44 years			45-64 years			65 years and over		
	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE
1979	120	45.6	3.7	250	121.2	8.5	241	81.7	5.8	133	63.3	5.0	76	75.3	6.7
1980	105	40.2	3.5	241	116.9	8.6	264	86.3	6.3	118	56.1	4.7	81	78.5	7.1
1981	113	43.0	3.5	213	104.0	7.7	251	79.6	5.8	123	58.3	4.7	81	77.0	6.5
1982	112	42.6	3.2	213	105.2	7.1	243	74.4	4.9	131	61.8	4.5	85	79.4	6.3
1983	112	42.6	2.8	172	86.1	5.2	241	71.6	4.0	114	54.1	3.6	92	83.8	5.8
1984	111	42.0	2.3	169	85.7	4.2	247	71.3	3.2	117	54.9	3.0	92	82.0	4.7
1985	97	36.9	2.1	170	86.9	4.4	231	64.8	3.0	116	54.8	3.0	84	73.3	4.3
1986	97	37.0	2.0	141	72.9	3.7	219	59.9	2.7	101	47.4	2.6	91	78.5	4.4
1987	78	29.3	1.8	132	69.4	3.7	214	57.1	2.7	101	47.0	2.7	89	74.6	4.4
1988	75	28.1	2.7	128	68.3	6.5	196	51.5	3.9	94	43.4	3.8	87	71.9	6.0
1989	74	27.2	3.1	120	65.3	5.6	195	50.3	3.4	93	42.4	3.1	84	68.4	6.4
1990	58	20.2	2.0	108	57.5	4.0	187	46.3	2.4	89	40.2	3.3	95	76.2	5.7
1991	73	25.1	2.3	97	52.3	3.5	173	42.1	2.5	90	39.9	3.6	102	80.3	6.5
1992	62	20.9	2.0	89	47.9	3.7	169	41.0	2.6	89	38.4	2.6	103	79.5	7.9
1993	49	16.2	1.7	85	46.1	4.5	164	39.5	2.8	87	36.3	3.2	101	76.5	6.7
1994	49	16.2	1.5	79	43.0	3.4	139	33.4	2.2	92	37.5	2.9	105	78.3	5.3
1995	44	14.4	1.9	69	37.4	3.1	132	31.5	2.3	82	32.4	2.5	114	83.6	6.8
1996	49	16.2	1.7	65	34.6	3.9	115	27.4	2.0	84	32.5	2.7	101	73.5	5.9
1997	45	14.7	1.5	61	32.2	2.8	123	29.4	2.2	81	30.4	2.6	113	80.7	6.4
1998	43	14.2	1.6	56	28.9	2.7	100	24.1	1.6	89	32.3	2.9	116	82.2	6.4
1999	45	14.7	2.2	58	29.7	2.9	116	28.0	2.2	75	26.3	2.4	105	73.6	6.2
2000	42	13.5	1.8	62	31.3	3.0	96	23.2	2.0	79	26.7	1.9	114	79.4	6.9
2001	48	15.6	1.8	50	25.0	2.5	100	23.9	1.8	81	25.8	2.2	112	77.1	6.1
Average annual percent change		-6.5			-6.9			-6.3			-4.1			**0.0	
Average percent change		-77.2			-79.5			-76.0			-60.0			**0.3	

SE is standard error.

\*\*Not significant.

NOTES: See "Appendix B" for the ICD-9-CM diagnosis codes.

Average annual percent change is from 1979-2001 ("Appendix A," Test of trend).

Average percent change is for 1979-2001 ("Appendix A," Average percent change over time).

Rate per 10,000 civilian resident population.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Discharge Survey.

**Data table for figure 16. Extremity injury hospital discharges among females by age, 1979-2001**

Year	Under 15 years			15-24 years			25-44 years			45-64 years			65 years and over		
	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE
1979	56	22.2	2.1	70	33.3	3.0	89	28.7	2.5	118	50.5	4.1	279	186.0	12.8
1980	64	25.6	2.5	70	33.4	3.1	91	28.5	2.5	117	50.3	4.3	285	185.7	13.3
1981	56	22.5	2.0	70	33.5	2.9	82	24.8	2.1	115	49.3	4.0	278	177.2	12.8
1982	52	20.7	1.7	56	27.4	1.8	92	27.0	2.1	117	50.3	3.8	284	177.4	11.4
1983	57	22.8	1.8	52	25.9	2.1	94	26.7	1.9	105	45.3	3.1	294	179.2	9.6
1984	47	18.5	1.3	54	27.0	1.8	95	26.4	1.5	107	45.9	2.5	302	180.9	7.9
1985	49	19.4	1.3	49	24.8	1.7	82	22.3	1.3	105	44.9	2.5	298	174.9	7.8
1986	50	19.8	1.3	45	23.4	1.6	78	20.7	1.2	99	42.4	2.3	289	166.6	7.1
1987	43	17.1	1.2	40	21.1	1.5	82	21.2	1.3	88	37.8	2.2	271	153.1	6.9
1988	35	13.8	1.4	40	21.4	2.2	67	17.0	1.4	86	36.2	2.8	264	146.5	7.7
1989	43	16.6	2.2	27	14.8	1.6	74	18.5	1.5	84	35.2	3.7	299	162.7	9.5
1990	32	11.7	1.3	28	14.9	1.3	69	16.7	1.4	79	33.2	3.0	306	165.8	10.1
1991	33	12.0	1.4	32	17.8	1.7	71	17.0	1.2	89	36.9	3.0	311	166.0	10.3
1992	35	12.4	1.2	34	18.7	2.1	69	16.4	1.1	84	33.7	2.4	301	158.4	10.6
1993	33	11.7	1.7	26	14.3	1.9	66	15.7	1.3	86	33.7	2.8	343	177.8	12.8
1994	31	10.9	1.3	24	13.3	1.6	68	16.1	1.5	77	29.4	2.0	325	167.3	10.7
1995	25	8.8	1.2	22	12.1	1.8	63	14.8	1.7	75	28.0	2.6	333	170.0	11.0
1996	22	7.4	1.0	21	11.7	1.4	59	13.8	1.4	80	29.1	2.5	378	191.2	10.3
1997	22	7.6	1.2	24	13.3	2.3	50	11.7	1.0	69	24.1	1.7	361	182.0	10.5
1998	30	10.1	1.3	24	13.0	2.4	56	13.3	1.0	71	24.1	2.0	338	169.5	8.6
1999	24	8.2	1.1	20	10.6	1.8	52	12.4	1.2	82	27.0	3.1	363	181.4	12.1
2000	23	7.9	1.4	18	9.2	1.3	44	10.5	1.1	85	27.0	2.6	345	171.7	11.7
2001	25	8.5	1.6	17	8.6	1.4	47	11.3	1.4	83	25.1	2.1	362	174.8	11.3
Average annual percent change		-5.7			-6.0			-4.5			-3.7			**	-0.0
Average percent change		-72.6			-74.4			-63.9			-56.3			**	-0.1

SE is standard error.  
 \*\*Not significant.

NOTES: See "Appendix B" for the ICD-9-CM diagnosis codes.  
 Average annual percent change is from 1979-2001 ("Appendix A," Test of trend).  
 Average percent change is for 1979-2001 ("Appendix A," Average percent change over time).  
 Rate per 10,000 civilian resident population.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Discharge Survey.

**Appendix table 15a. Upper extremity injury hospital discharges among males by age, 1979-2001**

Year	Under 15 years			15-24 years			25-44 years			45-64 years			65 years and over		
	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE
1979	62	23.6	2.2	110	53.1	4.3	97	32.8	2.8	48	22.6	2.2	23	22.3	2.6
1980	53	20.3	2.0	93	44.8	3.9	95	31.1	2.7	52	24.7	2.5	17	16.8	2.2
1981	61	23.3	2.1	89	43.5	3.6	96	30.5	2.5	50	23.8	2.2	20	19.2	2.0
1982	61	23.4	1.4	86	42.3	3.4	99	30.5	2.4	53	25.2	1.9	19	17.8	1.9
1983	60	22.8	1.8	70	34.9	2.6	101	30.0	2.0	47	22.3	1.8	22	19.6	2.0
1984	59	22.6	1.4	70	35.4	2.2	106	30.7	1.7	56	26.3	1.7	17	15.0	1.4
1985	54	20.6	1.4	70	36.0	2.2	92	25.9	1.5	48	22.6	1.5	16	13.9	1.3
1986	47	17.7	1.2	61	31.6	1.9	101	27.7	1.5	46	21.3	1.4	24	20.6	1.6
1987	35	13.2	1.0	57	30.1	2.0	94	25.2	1.5	44	20.4	1.4	15	12.5	1.2
1988	38	14.2	1.5	49	25.8	2.2	89	23.4	2.0	37	17.0	2.1	16	13.4	2.1
1989	38	13.8	1.8	47	25.3	3.0	84	21.6	2.2	43	19.4	1.9	19	15.6	2.9
1990	30	10.6	1.2	52	27.8	2.6	74	18.4	1.4	37	16.7	1.8	20	16.2	2.4
1991	39	13.4	1.5	41	21.9	2.2	70	17.1	1.5	44	19.4	2.3	21	16.6	2.4
1992	28	9.3	1.2	34	18.2	1.8	66	16.1	1.4	38	16.4	1.7	19	14.3	2.2
1993	23	7.8	0.9	27	14.4	1.7	64	15.6	1.5	37	15.5	1.7	22	16.8	2.8
1994	24	8.0	1.0	27	14.4	1.8	52	12.4	1.2	41	16.7	1.9	22	16.7	2.4
1995	18	6.0	1.0	26	13.9	1.6	46	11.1	0.9	30	11.9	1.3	26	18.7	2.8
1996	25	8.2	1.0	21	11.2	1.6	42	10.0	1.0	38	14.6	1.6	15	10.7	1.9
1997	17	5.7	0.8	30	15.8	2.1	42	10.0	1.1	32	11.9	1.5	20	14.4	2.0
1998	19	6.2	0.8	18	9.4	1.3	40	9.6	1.0	31	11.1	1.2	18	12.9	2.3
1999	19	6.1	1.1	22	11.5	1.5	42	10.0	1.0	27	9.4	1.1	19	13.1	1.9
2000	20	6.6	1.1	22	11.2	1.7	37	9.0	1.1	21	7.3	1.0	21	14.8	2.5
2001	22	7.0	1.0	19	9.5	1.4	36	8.7	0.9	31	10.0	1.2	16	10.9	1.9
Average annual percent change		-7.4			-7.6			-6.8			-4.7			-1.7	
Average percent change		-81.6			-82.3			-78.9			-65.1			-31.5	

SE is standard error.

NOTES: See "Appendix B" for ICD-9-CM diagnosis codes.

Average annual percent change is from 1979-2001 ("Appendix A," Test of trend).

Average percent change is for 1979-2001 ("Appendix A," Average percent change over time).

Rate per 10,000 civilian resident population.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Discharge Survey.

**Appendix table 15b. Other lower extremity injury hospital discharges among males by age, 1979-2001**

Year	Under 15 years			15-24 years			25-44 years			45-64 years			65 years and over		
	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE
1979	56	21.3	2.0	138	67.1	5.2	139	47.1	3.7	76	35.9	3.2	18	17.9	2.2
1980	50	19.1	1.9	145	70.2	5.7	163	53.2	4.2	57	27.0	2.7	22	20.9	2.6
1981	49	18.6	1.7	118	57.7	4.6	149	47.3	3.7	64	30.4	2.7	21	20.3	2.1
1982	48	18.5	1.6	124	61.0	4.5	138	42.3	3.1	67	31.5	2.3	22	20.0	2.1
1983	50	18.8	1.5	98	49.1	3.4	133	39.6	2.5	58	27.5	2.1	23	21.4	2.1
1984	47	18.0	1.2	96	48.6	2.7	132	38.2	2.0	51	24.1	1.6	24	21.1	1.7
1985	42	15.7	1.1	96	49.2	2.8	131	36.9	2.0	57	27.0	1.8	21	18.7	1.6
1986	48	18.2	1.2	76	39.3	2.3	113	30.8	1.6	45	21.0	1.4	19	16.3	1.4
1987	41	15.5	1.1	73	38.3	2.4	113	30.1	1.7	47	22.0	1.5	15	12.9	1.2
1988	35	13.1	1.7	77	40.9	5.4	98	25.7	2.1	49	22.5	2.9	19	15.5	2.1
1989	34	12.5	1.8	71	38.6	4.0	103	26.5	1.9	39	17.9	1.9	18	14.9	2.3
1990	26	9.0	1.2	54	28.7	2.3	105	25.9	1.6	37	16.5	1.9	21	16.9	2.1
1991	31	10.7	1.4	54	29.2	2.2	96	23.4	1.5	32	14.5	1.6	20	15.8	2.4
1992	32	10.8	1.4	53	28.7	2.5	93	22.7	1.6	45	19.3	1.7	23	17.8	3.1
1993	24	7.9	1.1	58	31.2	3.5	92	22.3	1.8	40	16.6	1.8	19	14.3	2.2
1994	23	7.5	0.9	50	27.2	2.7	83	19.9	1.4	39	15.8	1.5	18	13.7	1.8
1995	24	7.9	1.4	41	22.1	2.5	81	19.5	1.8	42	16.5	1.7	22	16.2	2.1
1996	23	7.4	1.0	39	20.6	3.1	69	16.3	1.4	37	14.1	1.6	20	14.2	1.7
1997	24	7.9	1.0	29	15.5	1.9	77	18.4	1.6	40	15.1	2.0	20	14.4	1.9
1998	23	7.6	1.0	36	18.6	2.1	55	13.2	1.2	44	15.8	1.6	19	13.5	1.8
1999	25	8.1	1.4	34	17.3	2.0	67	16.2	1.6	38	13.3	1.9	22	15.5	2.0
2000	20	6.4	1.1	37	18.8	2.0	56	13.6	1.2	49	16.6	1.5	22	15.4	2.7
2001	25	8.0	1.1	29	14.5	1.9	60	14.3	1.3	38	12.2	1.4	28	19.1	2.8
Average annual percent change		-5.7			-6.7			-6.0			-4.1			-1.6	
Average percent change		-72.5			-78.1			-74.5			-60.2			-30.0	

SE is standard error.

NOTES: See "Appendix B" for ICD-9-CM diagnosis codes.

Other lower extremity includes all lower extremity injuries except hip injuries.

Average annual percent change is from 1979-2001 ("Appendix A," Test of trend).

Average percent change is for 1979-2001 ("Appendix A," Average percent change over time).

Rate per 10,000 civilian resident population.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Discharge Survey.

**Appendix table 16a. Upper extremity injury hospital discharges among females by age, 1979-2001**

Year	Under 15 years			15-24 years			25-44 years			45-64 years			65 years and over		
	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE
1979	31	12.2	1.3	25	12.1	1.4	30	9.8	1.1	36	15.6	1.6	67	44.5	4.0
1980	37	14.7	1.6	23	10.8	1.3	31	9.7	1.1	42	18.0	1.9	70	45.6	4.3
1981	29	11.5	1.1	20	9.7	1.0	28	8.6	0.9	36	15.4	1.5	63	40.5	3.6
1982	30	12.2	1.2	17	8.5	0.9	30	8.7	0.9	37	16.1	1.5	65	40.4	2.8
1983	36	14.4	1.3	18	8.7	0.9	30	8.6	0.8	37	15.7	1.4	68	41.6	3.1
1984	29	11.5	0.9	16	8.3	0.8	31	8.7	0.7	38	16.1	1.2	65	38.9	2.4
1985	28	11.1	0.9	16	8.3	0.8	24	6.5	0.5	39	16.9	1.2	56	33.1	2.2
1986	27	10.6	0.8	14	7.0	0.7	30	8.0	0.6	34	14.8	1.1	49	28.1	1.8
1987	25	10.0	0.8	14	7.2	0.7	29	7.6	0.6	27	11.5	0.9	46	26.0	1.8
1988	20	7.9	0.9	12	6.3	1.2	24	6.1	0.7	28	12.0	1.5	41	22.7	2.1
1989	25	9.8	1.4	*9	*4.7	*0.9	27	6.9	0.9	24	10.0	1.4	48	26.0	4.0
1990	18	6.4	0.8	10	5.7	0.9	25	6.0	0.8	22	9.2	1.3	50	26.9	2.1
1991	19	6.7	1.0	*8	*4.4	*0.8	24	5.7	0.8	29	12.1	1.6	44	23.6	2.7
1992	17	6.0	0.8	*6	*3.1	*0.6	23	5.4	0.7	23	9.3	1.1	50	26.4	2.7
1993	16	5.6	0.9	*7	*4.1	*0.9	18	4.4	0.6	28	11.0	1.3	49	25.3	2.0
1994	14	4.7	0.8	*6	*3.3	*0.8	20	4.7	0.7	24	9.1	1.0	44	22.4	2.3
1995	11	3.9	0.6	*8	*4.3	*1.0	19	4.5	0.7	25	9.4	1.2	54	27.5	2.7
1996	11	3.8	0.7	*7	*3.9	*0.8	17	4.0	0.6	25	9.0	1.6	50	25.2	2.4
1997	*9	*3.0	*0.5	*6	*3.5	*0.8	14	3.2	0.5	25	8.8	1.1	54	27.1	2.4
1998	12	4.0	0.7	*8	*4.5	*1.2	16	3.9	0.5	20	6.8	0.9	51	25.5	2.1
1999	13	4.3	0.8	*	*	*	12	2.9	0.5	26	8.4	1.4	54	27.2	3.1
2000	13	4.2	0.9	*6	*3.2	*0.8	11	2.7	0.5	21	6.8	1.2	50	25.1	2.4
2001	12	3.9	0.9	*6	*3.2	*0.7	12	2.9	0.5	20	6.1	0.9	57	27.6	3.3
Average annual percent change	-6.9			-6.5			-5.5			-4.5			-2.7		
Average percent change	-79.4			-77.0			-71.4			-63.5			-45.5		

SE is standard error.

\* Figure does not meet standard of reliability or precision ("Appendix A," Standards of reliability).

NOTES: See "Appendix B" for the ICD-9-CM diagnosis codes.

Average annual percent change is from 1979-2001 ("Appendix A," Test of trend).

Average percent change is for 1979-2001 ("Appendix A," Average percent change over time).

Rate per 10,000 civilian resident population.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Discharge Survey.

**Appendix table 16b. Other lower extremity injury hospital discharges among females by age, 1979-2001**

Year	Under 15 years			15-24 years			25-44 years			45-64 years			65 years and over		
	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE	Number in thousands	Rate	Rate SE
1979	24	9.5	1.1	43	20.5	2.1	55	17.8	1.7	65	27.9	2.6	66	44.1	4.0
1980	24	9.8	1.2	46	21.7	2.2	57	18.0	1.8	59	25.4	2.5	63	40.8	3.9
1981	24	9.4	1.0	48	23.0	2.1	52	15.8	1.4	56	24.1	2.2	64	41.1	3.6
1982	20	8.0	0.9	37	18.1	1.7	60	17.5	1.0	61	26.0	1.5	63	39.0	2.4
1983	19	7.7	0.8	33	16.5	1.5	60	17.2	1.3	52	22.4	1.8	63	38.5	2.9
1984	16	6.4	0.6	36	18.2	1.3	59	16.3	1.0	50	21.5	1.4	69	41.0	2.5
1985	18	7.1	0.6	29	15.0	1.2	56	15.2	1.0	48	20.7	1.4	60	35.4	2.3
1986	21	8.3	0.7	31	16.1	1.2	45	11.9	0.8	49	20.9	1.4	62	35.5	2.2
1987	17	6.6	0.6	25	12.9	1.1	50	13.0	0.9	48	20.5	1.4	58	32.8	2.1
1988	14	5.4	0.9	26	14.0	1.9	40	10.2	1.3	40	16.9	2.2	51	28.4	2.5
1989	14	5.3	0.8	18	9.8	1.2	45	11.3	1.0	44	18.4	2.0	61	33.4	3.4
1990	12	4.3	0.7	16	8.8	1.1	41	10.0	1.1	47	19.7	2.1	58	31.7	2.4
1991	14	4.9	0.7	23	12.7	1.4	43	10.4	0.7	43	17.9	1.8	59	31.7	3.1
1992	16	5.8	0.8	26	14.3	1.8	43	10.2	0.8	45	18.1	1.7	59	31.2	3.1
1993	15	5.2	1.1	18	9.8	1.4	45	10.7	1.1	46	18.0	2.2	70	36.3	4.0
1994	16	5.7	1.1	17	9.6	1.4	46	10.8	1.1	43	16.4	1.4	68	34.9	3.1
1995	13	4.6	0.8	13	7.5	1.4	42	10.0	1.2	41	15.2	1.7	59	30.3	3.0
1996	9	3.2	0.6	14	7.6	1.1	40	9.4	1.1	42	15.4	1.5	66	33.5	2.6
1997	13	4.3	1.0	18	9.7	2.1	33	7.7	0.8	33	11.5	1.1	76	38.1	3.5
1998	15	5.3	0.8	16	8.4	1.6	37	8.7	0.9	40	13.5	1.4	63	31.6	2.4
1999	11	3.7	0.8	15	8.0	1.6	39	9.2	1.0	45	14.7	2.2	72	36.2	3.3
2000	10	3.3	0.8	11	5.7	1.0	31	7.3	1.0	45	14.3	1.3	66	33.1	2.8
2001	12	4.1	1.1	9	4.7	1.1	34	8.0	1.3	49	14.7	1.5	70	34.0	2.5
Average annual percent change	-4.4			-5.8			-4.2			-3.2			-0.9		
Average percent change	-63.0			-72.8			-61.2			-51.1			-18.7		

SE is standard error.

NOTES: See "Appendix B" for the ICD-9-CM diagnosis codes.

Other lower extremity includes all lower extremity injuries except hip injuries.

Average annual percent change is from 1979-2001 ("Appendix A," Test of trend).

Average percent change is for 1979-2001 ("Appendix A," Average percent change over time).

Rate per 10,000 civilian resident population.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Discharge Survey.



**Appendix table 16c. Extremity injury hospital discharges by body region, 1979-2001**

Year	Upper extremity			Lower extremity					
	Number in thousands	Percent	Percent SE	Hip			Other lower extremity		
				Number in thousands	Percent	Percent SE	Number in thousands	Percent	Percent SE
1979	528	36.9	1.2	223	15.6	0.8	680	47.5	1.3
1980	513	35.7	1.2	240	16.7	0.8	686	47.7	1.4
1981	494	35.7	1.1	242	17.5	0.7	647	46.8	1.2
1982	499	36.0	1.1	248	17.9	0.8	638	46.1	1.2
1983	488	36.6	1.0	255	19.1	0.7	591	44.3	1.1
1984	487	36.4	0.8	272	20.3	0.6	580	43.3	0.9
1985	445	34.8	0.8	276	21.5	0.7	560	43.7	0.9
1986	433	35.7	0.8	271	22.4	0.7	509	42.0	0.9
1987	386	33.9	1.0	265	23.3	0.7	487	42.8	0.9
1988	354	33.0	1.2	270	25.2	1.0	449	41.8	1.4
1989	363	33.2	1.0	284	25.9	1.0	447	40.9	1.3
1990	339	32.2	1.0	295	28.1	1.3	417	39.7	0.9
1991	338	31.6	1.0	317	29.6	1.0	417	38.9	0.9
1992	303	29.3	0.9	296	28.6	1.2	436	42.1	1.1
1993	292	28.1	1.1	321	30.9	1.2	426	41.0	1.1
1994	272	27.5	0.8	314	31.7	1.1	403	40.7	0.9
1995	263	27.5	0.9	316	33.0	1.2	379	39.5	1.0
1996	250	25.7	0.8	366	37.6	1.3	358	36.7	1.0
1997	249	26.2	0.9	338	35.6	1.1	363	38.2	1.0
1998	234	25.3	0.9	343	37.1	1.5	348	37.6	1.1
1999	238	25.3	1.0	335	35.6	1.3	368	39.1	1.0
2000	224	24.7	0.9	336	37.0	1.4	347	38.3	1.1
2001	232	25.0	1.0	340	36.8	1.3	354	38.2	1.3
Average annual percent change		-2.1			4.2			-1.0	
Average percent change		-37.8			147.7			-20.5	

SE is standard error.

NOTES: See "Appendix B" for the ICD-9-CM diagnosis codes in each category.  
 Average annual percent change is from 1979-2001 ("Appendix A," Test of trend).  
 Average percent change is for 1979-2001 ("Appendix A," Average percent change).

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Discharge Survey.