

**Table 53 (page 1 of 5). Joint pain among adults 18 years of age and over, by selected characteristics: United States, selected years 2002–2009**

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

Characteristic	Any joint pain <sup>1</sup>			Knee pain <sup>1</sup>			Shoulder pain <sup>1</sup>		
	2002	2008	2009	2002	2008	2009	2002	2008	2009
Percent of adults reporting joint pain in past 30 days									
18 years and over, age-adjusted <sup>2,3</sup> . . . . .	29.5	30.5	32.0	16.5	18.5	19.5	8.6	9.0	9.0
18 years and over, crude <sup>3</sup> . . . . .	29.5	31.3	33.0	16.5	19.0	20.2	8.7	9.3	9.3
Age									
18–44 years . . . . .	19.3	20.3	20.7	10.5	12.1	12.4	4.9	5.2	5.3
18–24 years . . . . .	14.2	15.6	14.8	8.3	9.3	8.8	3.4	3.0	3.0
25–44 years . . . . .	21.0	22.0	22.8	11.2	13.1	13.7	5.4	5.9	6.1
45–64 years . . . . .	37.5	39.3	41.8	20.4	24.6	26.2	12.3	12.3	12.4
45–54 years . . . . .	34.3	36.2	37.5	18.4	22.5	23.8	10.5	10.8	11.0
55–64 years . . . . .	42.3	43.3	47.3	23.4	27.4	29.4	15.1	14.1	14.2
65 years and over . . . . .	47.2	47.4	50.6	28.6	28.0	30.3	14.1	15.5	14.9
65–74 years . . . . .	46.0	46.8	47.9	27.6	28.2	28.9	14.0	15.5	14.2
75 years and over . . . . .	48.7	48.1	53.8	29.7	27.7	31.9	14.1	15.6	15.7
Sex <sup>2</sup>									
Male . . . . .	28.0	28.8	30.8	15.2	17.4	18.3	8.4	9.3	9.2
Female . . . . .	30.7	32.0	32.9	17.6	19.4	20.5	8.8	8.7	8.7
Sex and age									
Male:									
18–44 years . . . . .	20.1	20.5	21.8	10.7	12.3	12.9	5.5	5.8	6.0
45–54 years . . . . .	31.1	34.8	37.1	16.2	21.8	23.0	9.5	10.9	10.9
55–64 years . . . . .	37.3	37.8	41.7	20.1	23.8	24.4	13.7	15.0	14.5
65–74 years . . . . .	41.7	40.8	42.0	24.1	24.4	23.6	13.3	14.1	14.6
75 years and over . . . . .	43.9	43.6	47.5	25.7	24.1	28.3	11.4	15.0	13.5
Female:									
18–44 years . . . . .	18.4	20.1	19.7	10.2	12.0	11.9	4.2	4.5	4.6
45–54 years . . . . .	37.3	37.6	38.0	20.5	23.2	24.5	11.4	10.7	11.1
55–64 years . . . . .	46.8	48.4	52.4	26.4	30.7	33.9	16.3	13.3	13.9
65–74 years . . . . .	49.6	52.1	52.9	30.5	31.5	33.5	14.7	16.7	13.9
75 years and over . . . . .	51.6	51.0	58.1	32.1	30.1	34.3	15.7	15.9	17.1
Race <sup>2,4</sup>									
White only . . . . .	29.8	31.5	32.8	16.3	18.9	19.7	8.8	9.3	9.1
Black or African American only . . . . .	30.8	29.0	30.8	20.2	19.8	20.7	8.3	7.8	9.0
American Indian or Alaska Native only . . . . .	36.7	29.4	35.8	24.5	15.1	22.5	*11.3	13.2	*8.3
Asian only . . . . .	18.1	16.1	18.3	8.5	9.2	11.0	3.9	5.2	5.4
Native Hawaiian or Other Pacific Islander only . . . . .	*	*	*	*	*	*	*	*	*
2 or more races . . . . .	42.7	43.7	46.4	28.1	28.1	29.7	15.4	15.0	15.0
Hispanic origin and race <sup>2,4</sup>									
Hispanic or Latino . . . . .	23.4	23.7	25.0	13.6	13.9	15.7	7.6	7.6	8.0
Mexican . . . . .	24.6	23.2	25.6	14.1	13.8	16.6	8.3	7.3	8.2
Not Hispanic or Latino . . . . .	30.4	31.5	33.1	17.0	19.2	20.2	8.9	9.3	9.2
White only . . . . .	30.8	33.0	34.4	16.9	19.9	20.6	9.1	9.8	9.4
Black or African American only . . . . .	30.8	29.1	31.0	20.1	19.9	21.0	8.3	7.8	9.1
Education <sup>5,6</sup>									
25 years of age and over:									
No high school diploma or GED . . . . .	33.0	33.2	36.1	19.5	20.7	23.4	10.8	11.4	11.4
High school diploma or GED . . . . .	32.9	34.0	35.6	18.6	21.5	21.7	10.2	11.1	10.6
Some college or more . . . . .	31.1	32.0	33.8	16.9	18.8	20.3	8.8	8.9	9.2

See footnotes at end of table.

**Table 53 (page 2 of 5). Joint pain among adults 18 years of age and over, by selected characteristics: United States, selected years 2002–2009**

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

Characteristic	Any joint pain <sup>1</sup>			Knee pain <sup>1</sup>			Shoulder pain <sup>1</sup>		
	2002	2008	2009	2002	2008	2009	2002	2008	2009
Percent of poverty level <sup>2,7</sup>				Percent of adults reporting joint pain in past 30 days					
Below 100%	31.7	33.2	35.5	19.9	21.3	23.2	11.2	11.4	12.3
100%–199%	31.7	33.0	35.4	19.0	21.2	22.0	10.4	10.1	10.2
200%–399%	30.1	30.2	32.0	16.4	18.0	20.4	8.8	9.4	9.2
400% or more	27.6	29.1	29.5	14.9	17.3	16.8	7.3	7.6	7.5
Hispanic origin and race and percent of poverty level <sup>2,4,7</sup>									
Hispanic or Latino:									
Below 100%	26.8	23.1	26.8	16.1	14.1	18.3	11.5	7.4	11.3
100%–199%	24.5	24.2	24.9	14.4	16.0	15.8	8.2	8.0	6.7
200%–399%	21.6	24.4	25.6	11.7	12.3	15.6	5.7	8.2	8.3
400% or more	21.9	22.5	22.6	12.3	13.5	13.4	4.9	*6.7	6.2
Not Hispanic or Latino:									
White only:									
Below 100%	34.2	38.9	38.5	21.3	25.1	24.9	12.4	13.7	12.8
100%–199%	34.9	38.9	41.6	20.3	24.4	24.9	11.6	12.0	11.8
200%–399%	32.0	32.8	34.8	17.0	19.7	22.5	9.6	10.4	9.8
400% or more	28.2	30.4	30.9	15.1	17.8	17.2	7.6	8.0	7.8
Black or African American only:									
Below 100%	31.6	34.3	39.1	20.8	23.0	25.1	9.1	11.2	13.2
100%–199%	34.0	29.8	31.1	23.2	21.4	22.7	10.9	8.4	8.5
200%–399%	29.1	27.0	27.3	19.1	17.7	17.1	7.4	6.7	8.3
400% or more	29.8	28.6	28.7	18.2	19.6	20.7	*8.0	6.1	6.6
Disability measure <sup>2,8</sup>									
Any basic actions difficulty or complex activity limitation									
Any basic actions difficulty	52.5	50.2	54.5	32.1	33.0	35.8	17.8	16.2	17.0
Any complex activity limitation	54.0	51.8	56.2	33.4	34.3	37.3	18.3	16.6	17.7
No disability									
No disability	56.4	54.9	57.4	35.2	36.0	38.6	22.0	21.3	21.4
No disability	19.6	20.9	21.6	9.4	11.1	11.7	4.6	5.1	4.9
Geographic region <sup>2</sup>									
Northeast	27.5	28.2	28.6	15.8	17.2	17.6	7.9	8.7	7.5
Midwest	32.1	33.2	35.6	18.4	20.5	22.5	8.6	9.2	10.2
South	29.3	30.7	32.2	16.7	19.0	19.6	9.1	9.0	9.1
West	28.4	29.0	30.5	14.6	16.6	17.7	8.6	9.1	8.7
Location of residence <sup>2,9</sup>									
Within MSA	28.3	29.5	31.1	16.0	17.8	18.8	8.1	8.7	8.6
Outside MSA	33.9	35.2	36.1	18.7	21.6	23.0	10.8	10.7	10.7

See footnotes at end of table.

**Table 53 (page 3 of 5). Joint pain among adults 18 years of age and over, by selected characteristics: United States, selected years 2002–2009**

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

Characteristic	Finger pain <sup>1</sup>			Hip pain <sup>1</sup>		
	2002	2008	2009	2002	2008	2009
Percent of adults reporting joint pain in past 30 days						
18 years and over, age-adjusted <sup>2,3</sup> . . . . .	7.5	7.2	7.6	6.6	6.9	7.1
18 years and over, crude <sup>3</sup> . . . . .	7.5	7.5	8.0	6.6	7.1	7.4
Age						
18–44 years . . . . .	3.4	3.3	3.4	3.2	3.5	3.7
18–24 years . . . . .	2.0	2.1	2.4	1.6	*1.6	2.0
25–44 years . . . . .	3.9	3.7	3.7	3.8	4.2	4.2
45–64 years . . . . .	11.0	9.9	10.8	9.1	9.2	9.9
45–54 years . . . . .	9.1	7.9	8.6	7.8	7.6	7.8
55–64 years . . . . .	13.9	12.5	13.5	11.0	11.3	12.5
65 years and over . . . . .	13.9	15.2	15.8	12.9	13.6	13.0
65–74 years . . . . .	14.4	15.2	15.3	12.6	13.9	11.3
75 years and over . . . . .	13.3	15.1	16.3	13.3	13.3	14.9
Sex <sup>2</sup>						
Male . . . . .	5.8	5.6	5.9	5.1	5.1	5.3
Female . . . . .	8.9	8.7	9.2	8.0	8.5	8.7
Sex and age						
Male:						
18–44 years . . . . .	3.0	2.7	3.1	2.5	2.7	2.5
45–54 years . . . . .	6.6	6.5	6.6	5.6	5.3	5.3
55–64 years . . . . .	10.5	10.0	10.2	8.0	6.9	9.7
65–74 years . . . . .	11.2	10.5	10.2	10.5	9.9	8.0
75 years and over . . . . .	10.0	10.8	11.1	10.1	12.7	14.2
Female:						
18–44 years . . . . .	3.8	3.9	3.7	3.9	4.3	4.8
45–54 years . . . . .	11.5	9.3	10.6	9.9	9.8	10.2
55–64 years . . . . .	17.0	14.9	16.5	13.7	15.4	15.1
65–74 years . . . . .	17.1	19.3	19.7	14.2	17.3	14.1
75 years and over . . . . .	15.3	17.9	19.8	15.2	13.6	15.4
Race <sup>2,4</sup>						
White only . . . . .	7.6	7.6	8.0	6.9	7.4	7.3
Black or African American only . . . . .	6.5	5.0	6.0	5.6	5.0	7.0
American Indian or Alaska Native only . . . . .	*12.9	12.4	*7.7	*10.4	*8.1	*6.0
Asian only . . . . .	*3.2	3.2	4.0	*2.3	*1.8	*1.8
Native Hawaiian or Other Pacific Islander only . . . . .	*	*	*	*	*	*
2 or more races . . . . .	12.8	16.2	16.3	10.0	11.0	11.8
Hispanic origin and race <sup>2,4</sup>						
Hispanic or Latino . . . . .	6.8	5.6	6.9	3.8	4.6	4.1
Mexican . . . . .	7.8	6.5	7.0	4.0	4.2	3.8
Not Hispanic or Latino . . . . .	7.6	7.4	7.7	6.9	7.2	7.5
White only . . . . .	7.8	8.0	8.1	7.3	7.9	7.8
Black or African American only . . . . .	6.5	5.0	5.9	5.7	5.0	7.0
Education <sup>5,6</sup>						
25 years of age and over:						
No high school diploma or GED . . . . .	9.5	8.8	10.2	7.3	7.8	9.0
High school diploma or GED . . . . .	8.3	9.2	9.2	7.3	8.2	8.6
Some college or more . . . . .	8.2	7.3	7.7	7.5	7.4	7.3

See footnotes at end of table.

**Table 53 (page 4 of 5). Joint pain among adults 18 years of age and over, by selected characteristics: United States, selected years 2002–2009**

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

Characteristic	Finger pain <sup>1</sup>			Hip pain <sup>1</sup>		
	2002	2008	2009	2002	2008	2009
Percent of poverty level <sup>2,7</sup>						
Below 100% . . . . .	9.8	9.2	9.5	8.5	8.7	9.5
100%–199% . . . . .	8.9	8.7	9.4	7.5	8.4	7.8
200%–399% . . . . .	7.9	7.1	7.9	6.8	6.8	7.2
400% or more . . . . .	6.2	6.2	6.4	5.8	5.9	5.9
Hispanic origin and race and percent of poverty level <sup>2,4,7</sup>						
Hispanic or Latino:						
Below 100% . . . . .	8.6	7.4	8.3	5.9	*5.2	6.5
100%–199% . . . . .	8.2	5.5	5.6	3.9	4.5	*2.6
200%–399% . . . . .	6.2	5.6	7.8	3.2	*4.7	4.8
400% or more . . . . .	*5.3	*4.4	6.2	*1.8	*4.3	*3.0
Not Hispanic or Latino:						
White only:						
Below 100% . . . . .	10.9	11.5	10.5	9.9	11.3	10.7
100%–199% . . . . .	9.9	10.6	11.9	9.1	11.3	9.7
200%–399% . . . . .	8.5	7.8	8.5	7.5	7.8	8.3
400% or more . . . . .	6.5	6.7	6.4	6.2	6.3	6.3
Black or African American only:						
Below 100% . . . . .	7.9	5.4	7.8	8.1	7.3	10.3
100%–199% . . . . .	7.4	6.5	4.9	6.4	4.6	6.9
200%–399% . . . . .	6.0	5.4	4.9	4.7	4.8	5.5
400% or more . . . . .	*4.8	*2.7	*6.6	*4.5	*5.0	*6.3
Disability measure <sup>2,8</sup>						
Any basic actions difficulty or complex activity limitation . . . . .	14.5	12.8	13.7	13.8	13.5	14.6
Any basic actions difficulty . . . . .	14.9	13.4	14.3	14.4	14.1	15.0
Any complex activity limitation . . . . .	17.8	15.5	16.3	17.8	17.7	18.4
No disability . . . . .	4.0	4.5	4.5	3.1	3.3	3.3
Geographic region <sup>2</sup>						
Northeast . . . . .	6.6	5.4	6.2	5.7	6.7	5.8
Midwest . . . . .	7.5	7.4	8.2	6.9	7.4	7.9
South . . . . .	7.6	8.0	7.9	7.0	6.8	7.6
West . . . . .	8.0	7.2	7.7	6.4	6.7	6.3
Location of residence <sup>2,9</sup>						
Within MSA . . . . .	7.2	6.9	7.4	6.2	6.4	6.6
Outside MSA . . . . .	8.4	8.8	8.9	8.0	9.0	9.1

See footnotes at end of table.

**Table 53 (page 5 of 5). Joint pain among adults 18 years of age and over, by selected characteristics: United States, selected years 2002–2009**

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

\* Estimates are considered unreliable. Data preceded by an asterisk have a relative standard error (RSE) of 20%–30%. Data not shown have an RSE greater than 30%.

<sup>1</sup>Starting with 2002 data, respondents were asked, “During the past 30 days, have you had any symptoms of pain, aching, or stiffness in or around a joint?” Respondents were instructed not to include the back or neck. To facilitate their response, respondents were shown a card illustrating the body joints. Respondents reporting more than one type of joint pain were included in each response category. This table shows the most commonly reported joints.

<sup>2</sup>Estimates are age-adjusted to the year 2000 standard population using five age groups: 18–44 years, 45–54 years, 55–64 years, 65–74 years, and 75 years and over. See Appendix II, Age adjustment.

<sup>3</sup>Includes all other races not shown separately, unknown education level, and unknown disability status.

<sup>4</sup>The race groups white, black, American Indian or Alaska Native, Asian, Native Hawaiian or Other Pacific Islander, and 2 or more races include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. The five single-race categories plus multiple-race categories shown in the table conform to the 1997 Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity. Starting with 2003 data, race responses of other race and unspecified multiple race were treated as missing, and then race was imputed if these were the only race responses. Almost all persons with a race response of other race were of Hispanic origin. See Appendix II, Hispanic origin; Race.

<sup>5</sup>Estimates are for persons 25 years of age and over and are age-adjusted to the year 2000 standard population using five age groups: 25–44 years, 45–54 years, 55–64 years, 65–74 years, and 75 years and over. See Appendix II, Age adjustment.

<sup>6</sup>GED is General Educational Development high school equivalency diploma. See Appendix II, Education.

<sup>7</sup>Percent of poverty level is based on family income and family size and composition using U.S. Census Bureau poverty thresholds. Missing family income data were imputed for 2002 and beyond. See Appendix II, Family income; Poverty; Table VII.

<sup>8</sup>Any basic actions difficulty or complex activity limitation is defined as having one or more of the following limitations or difficulties: movement difficulty, emotional difficulty, sensory (seeing or hearing) difficulty, cognitive difficulty, self-care (ADL or IADL) limitation, social limitation, or work limitation. For more information, see Appendix II, Basic actions difficulty; Complex activity limitation. Starting with 2007 data, the hearing question, a component of the basic actions difficulty measure, was revised. Consequently, data prior to 2007 are not comparable with data for 2007 and beyond. For more information on the impact of the revised hearing question, see Appendix II, Hearing trouble.

<sup>9</sup>MSA is metropolitan statistical area. Starting with 2006 data, MSA status is determined using 2000 census data and the 2000 standards for defining MSAs. For data prior to 2006, see Appendix II, Metropolitan statistical area (MSA) for the applicable standards.

NOTES: Standard errors are available in the spreadsheet version of this table. Available from: <http://www.cdc.gov/nchs/hus.htm>. Data for additional years are available. See Appendix III.

SOURCE: CDC/NCHS, National Health Interview Survey, sample adult questionnaire.