

**Table 87 (page 1 of 5). Use of Pap smears among women 18 years of age and over, by selected characteristics: United States, selected years 1987–2008**

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

Characteristic	1987	1993	1994	1999	2000	2003	2005	2008
Percent of women having a Pap smear within the past 3 years <sup>1</sup>								
18 years and over, age-adjusted <sup>2,3</sup>	74.1	77.7	76.8	80.8	81.3	79.2	77.9	75.6
18 years and over, crude <sup>2</sup>	74.4	77.7	76.8	80.8	81.2	79.0	77.7	75.1
Age								
18–44 years	83.3	84.6	82.8	86.8	84.9	83.9	83.6	81.8
18–24 years	74.8	78.8	76.6	76.8	73.5	75.1	74.5	70.5
25–44 years	86.3	86.3	84.6	89.9	88.5	86.8	86.8	85.7
45–64 years	70.5	77.2	77.4	81.7	84.6	81.3	80.6	78.8
45–54 years	75.7	82.1	81.9	83.8	86.3	83.6	83.4	81.0
55–64 years	65.2	70.6	71.0	78.4	82.0	77.8	76.8	76.0
65 years and over	50.8	57.6	57.3	61.0	64.5	60.8	54.9	50.0
65–74 years	57.9	64.7	64.9	70.0	71.6	70.1	66.3	61.6
75 years and over	40.4	48.0	47.3	50.8	56.7	51.1	42.7	37.5
Race <sup>4</sup>								
18 years and over, crude:								
White only	74.1	77.3	76.2	80.6	81.3	78.7	77.7	74.9
Black or African American only	80.7	82.7	83.5	85.7	85.1	84.0	81.1	80.1
American Indian or Alaska Native only	85.4	78.1	73.5	92.2	76.8	84.8	75.2	69.4
Asian only	51.9	68.8	66.4	64.4	66.4	68.3	64.1	65.1
Native Hawaiian or Other Pacific Islander only	---	---	---	*	*	*	*	*
2 or more races	---	---	---	86.9	80.0	81.6	86.2	77.1
Hispanic origin and race <sup>4</sup>								
18 years and over, crude:								
Hispanic or Latina	67.6	77.2	74.4	76.3	77.0	75.4	75.5	75.4
Not Hispanic or Latina	74.9	77.8	77.0	81.3	81.7	79.5	78.0	75.1
White only	74.7	77.3	76.5	81.0	81.8	79.3	78.1	74.9
Black or African American only	80.9	82.7	83.8	86.0	85.1	83.8	81.2	80.0
Age, Hispanic origin, and race <sup>4</sup>								
18–44 years:								
Hispanic or Latina	73.9	80.9	80.6	77.0	78.1	75.9	76.5	77.9
Not Hispanic or Latina:								
White only	84.5	85.3	82.9	88.7	86.6	85.8	85.8	83.8
Black or African American only	89.1	88.0	89.1	90.8	88.5	88.6	86.4	83.5
45–64 years:								
Hispanic or Latina	57.7	75.8	70.1	79.5	77.8	77.9	78.4	78.2
Not Hispanic or Latina:								
White only	71.2	77.2	77.5	81.9	85.9	81.4	81.4	79.0
Black or African American only	76.2	80.3	82.2	84.6	85.7	84.7	80.5	82.1
65 years and over:								
Hispanic or Latina	41.7	57.1	43.8	63.7	66.8	64.6	60.0	52.6
Not Hispanic or Latina:								
White only	51.8	57.1	58.2	60.5	64.2	60.7	54.1	49.0
Black or African American only	44.8	61.2	59.5	64.5	67.2	59.6	60.1	58.7
Age and percent of poverty level <sup>5</sup>								
18 years and over, crude:								
Below 100%	64.3	70.3	68.8	73.6	72.0	70.5	68.7	68.9
100%–199%	68.2	71.2	68.8	72.5	73.4	71.4	69.0	65.0
200%–399%	77.6	80.6	80.1	80.6	80.2	78.6	77.9	72.5
400% or more	83.6	85.1	85.4	87.6	89.1	86.6	85.7	84.4
18–44 years:								
Below 100%	77.1	77.0	78.9	79.7	77.1	77.1	76.2	76.5
100%–199%	80.4	81.9	78.2	84.0	79.4	79.5	78.1	75.5
200%–399%	84.8	86.6	84.5	86.7	86.1	84.0	85.5	82.6
400% or more	88.9	91.3	88.7	91.1	89.8	89.5	88.7	87.0
45–64 years:								
Below 100%	53.6	66.5	62.0	73.1	73.6	66.0	65.9	66.2
100%–199%	60.4	64.8	66.2	70.4	76.1	71.4	69.6	65.6
200%–399%	71.0	79.5	80.3	79.9	80.0	80.8	79.3	75.3
400% or more	79.1	83.9	84.0	87.4	91.5	87.5	87.4	87.1
65 years and over:								
Below 100%	33.2	47.4	44.0	51.9	53.7	52.6	44.4	41.6
100%–199%	50.4	55.7	51.5	54.7	61.0	55.4	49.5	43.5
200%–399%	58.0	59.7	63.7	64.0	65.1	62.4	56.8	45.8
400% or more	65.2	67.5	76.2	70.4	75.4	70.2	64.6	65.7

See footnotes at end of table.

**Table 87 (page 2 of 5). Use of Pap smears among women 18 years of age and over, by selected characteristics: United States, selected years 1987–2008**

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

Characteristic	1987	1993	1994	1999	2000	2003	2005	2008
Health insurance status at the time of interview <sup>6</sup>		Percent of women having a Pap smear within the past 3 years <sup>1</sup>						
18–64 years, crude:								
Insured . . . . .	---	84.7	83.8	87.2	87.8	86.4	85.6	83.4
Private . . . . .	---	84.8	83.6	87.5	88.0	87.0	86.5	84.2
Medicaid . . . . .	---	82.7	86.2	84.2	85.8	82.8	80.9	80.3
Uninsured . . . . .	---	69.4	68.6	73.3	70.4	66.6	67.7	67.1
Health insurance status prior to interview <sup>6</sup>								
18–64 years, crude:								
Insured continuously all 12 months . . . . .	---	84.8	83.7	87.3	88.0	86.6	85.8	83.7
Uninsured for any period up to 12 months . . . . .	---	81.8	83.4	83.5	83.7	81.8	81.3	78.9
Uninsured more than 12 months . . . . .	---	65.1	63.6	68.8	65.1	60.2	62.0	62.1
Age and education <sup>7</sup>								
25 years and over, crude:								
No high school diploma or GED . . . . .	57.1	61.9	60.9	66.1	69.9	64.9	64.1	60.6
High school diploma or GED . . . . .	76.4	78.2	76.0	79.3	79.8	75.9	73.8	69.5
Some college or more . . . . .	84.0	84.4	85.2	87.8	88.0	86.2	84.6	82.6
25–44 years:								
No high school diploma or GED . . . . .	75.1	73.6	73.6	79.0	79.6	71.7	75.5	76.2
High school diploma or GED . . . . .	85.6	85.4	82.4	87.6	86.2	84.3	83.1	80.0
Some college or more . . . . .	90.1	89.8	89.1	93.0	91.4	90.8	90.5	89.3
45–64 years:								
No high school diploma or GED . . . . .	58.0	65.6	66.1	71.6	75.7	71.4	69.7	70.4
High school diploma or GED . . . . .	72.3	77.6	75.9	79.8	81.8	77.6	79.0	73.9
Some college or more . . . . .	80.1	83.0	84.7	85.7	89.1	86.2	84.1	83.0
65 years and over:								
No high school diploma or GED . . . . .	44.0	50.7	47.7	51.8	56.6	52.5	46.0	36.7
High school diploma or GED . . . . .	55.4	61.6	61.2	63.7	66.9	61.2	52.5	49.3
Some college or more . . . . .	59.4	62.3	66.5	68.8	69.8	67.8	63.8	59.0
Disability measure <sup>8</sup>								
18 years and over, crude:								
Any basic actions difficulty or complex activity limitation . . . . .	---	---	---	74.4	75.4	72.7	69.1	66.1
Any basic actions difficulty . . . . .	---	---	---	74.3	75.1	72.6	69.1	66.2
Any complex activity limitation . . . . .	---	---	---	69.3	71.0	67.6	62.2	60.1
No disability . . . . .	---	---	---	83.8	84.1	82.5	82.6	80.4

See footnotes at end of table.

**Table 87 (page 3 of 5). Use of Pap smears among women 18 years of age and over, by selected characteristics: United States, selected years 1987–2008**

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

Characteristic	1987	1993	1994	1999	2000	2003	2005	2008
Percent of women having a Pap smear within the past 3 years, among those who have not had a hysterectomy <sup>9</sup>								
18 years and over, age-adjusted <sup>2,3</sup>	77.3	78.7	78.0	81.6	82.7	---	79.6	78.2
18 years and over, crude <sup>2</sup>	77.8	80.0	79.1	82.6	83.3	---	80.8	79.4
Age								
18–44 years	85.1	84.7	83.2	86.3	84.9	---	83.8	81.9
18–24 years	76.4	79.0	76.8	75.5	73.6	---	74.6	70.7
25–44 years	88.1	86.5	85.2	89.7	88.7	---	87.3	86.0
45–64 years	75.8	79.2	79.8	83.8	86.9	---	83.4	84.0
45–54 years	80.9	82.9	83.5	85.5	87.6	---	85.7	83.9
55–64 years	70.5	73.6	73.7	80.6	85.5	---	79.6	84.1
65 years and over	55.4	59.7	59.3	63.7	68.6	---	59.3	56.3
65–74 years	62.8	67.9	67.4	71.9	75.9	---	72.4	69.9
75 years and over	44.4	49.9	49.4	54.7	60.9	---	46.3	42.2
Race <sup>4</sup>								
18 years and over, crude:								
White only	77.8	79.9	78.8	82.8	83.7	---	81.2	79.7
Black or African American only	82.3	83.3	85.0	87.2	86.8	---	82.2	82.7
American Indian or Alaska Native only	85.9	78.2	79.6	94.1	77.7	---	75.6	74.8
Asian only	52.5	69.6	67.9	63.4	66.9	---	64.8	65.7
Native Hawaiian or Other Pacific Islander only	---	---	---	*	*77.1	---	*	*
2 or more races	---	---	---	87.5	82.2	---	88.8	81.6
Hispanic origin and race <sup>4</sup>								
18 years and over, crude:								
Hispanic or Latina	69.8	77.3	78.0	75.1	78.0	---	76.0	77.5
Not Hispanic or Latina	78.5	80.2	79.3	83.5	84.0	---	81.5	79.7
White only	78.6	80.2	78.9	83.6	84.4	---	82.2	80.3
Black or African American only	82.4	83.4	84.9	87.5	86.8	---	82.4	82.6
Age, Hispanic origin, and race <sup>4</sup>								
18–44 years:								
Hispanic or Latina	75.1	80.2	81.0	76.0	77.9	---	76.6	78.4
Not Hispanic or Latina:								
White only	86.5	85.7	83.3	88.3	86.6	---	86.2	83.9
Black or African American only	90.3	87.6	89.1	90.6	88.7	---	86.3	83.5
45–64 years:								
Hispanic or Latina	62.4	75.3	78.1	77.8	81.0	---	78.6	81.2
Not Hispanic or Latina:								
White only	77.0	79.3	79.7	84.7	88.5	---	85.1	85.0
Black or African American only	78.0	81.1	82.1	86.6	87.4	---	80.7	86.0
65 years and over:								
Hispanic or Latina	43.8	58.9	52.0	60.9	71.2	---	60.5	53.9
Not Hispanic or Latina:								
White only	56.8	60.0	60.4	63.8	68.0	---	59.5	56.5
Black or African American only	46.3	55.8	57.1	65.1	72.1	---	59.3	64.1
Age and percent of poverty level <sup>5</sup>								
18 years and over, crude:								
Below 100%	67.5	71.7	72.4	74.8	73.8	---	70.5	72.5
100%–199%	71.6	73.7	71.9	75.2	75.7	---	72.8	69.9
200%–399%	81.0	83.0	82.2	82.5	83.0	---	81.5	77.5
400% or more	87.0	87.8	87.1	88.9	90.5	---	88.3	87.9
18–44 years:								
Below 100%	79.3	77.2	79.7	79.0	76.8	---	76.2	76.7
100%–199%	81.8	82.1	78.7	83.7	79.2	---	78.2	75.5
200%–399%	86.6	86.5	84.8	86.2	86.0	---	86.1	82.5
400% or more	90.2	91.9	88.8	90.6	90.0	---	88.8	87.3
45–64 years:								
Below 100%	58.0	65.8	65.8	74.7	75.6	---	64.9	71.0
100%–199%	66.1	64.2	68.4	72.2	78.2	---	71.9	70.5
200%–399%	76.9	82.2	82.8	81.2	81.7	---	81.7	79.8
400% or more	84.4	86.6	86.2	89.7	93.7	---	90.9	92.5
65 years and over:								
Below 100%	36.4	47.5	45.9	53.5	55.9	---	43.9	44.8
100%–199%	54.6	56.6	53.4	56.3	63.3	---	54.5	49.1
200%–399%	62.8	63.5	66.7	68.3	71.8	---	61.5	53.5
400% or more	73.0	71.7	78.8	72.9	78.6	---	70.6	71.0

See footnotes at end of table.

**Table 87 (page 4 of 5). Use of Pap smears among women 18 years of age and over, by selected characteristics: United States, selected years 1987–2008**

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

Characteristic	1987	1993	1994	1999	2000	2003	2005	2008
Health insurance status at the time of interview <sup>6</sup>		Percent of women having a Pap smear within the past 3 years, among those who have not had a hysterectomy <sup>9</sup>						
18–64 years, crude:								
Insured . . . . .	---	85.9	85.2	87.8	88.7	---	87.1	85.9
Private . . . . .	---	86.0	85.0	88.1	88.8	---	87.9	86.7
Medicaid . . . . .	---	83.9	87.0	84.2	86.9	---	82.7	82.7
Uninsured . . . . .	---	70.2	70.2	74.3	70.8	---	68.2	68.1
Health insurance status prior to interview <sup>6</sup>								
18–64 years, crude:								
Insured continuously all 12 months . . . . .	---	86.1	85.1	88.0	88.9	---	87.2	86.3
Uninsured for any period up to 12 months . . . . .	---	81.7	83.8	84.4	84.4	---	82.8	81.0
Uninsured more than 12 months . . . . .	---	66.5	65.7	69.9	65.5	---	62.9	62.7
Age and education <sup>7</sup>								
25 years and over, crude:								
No high school diploma or GED . . . . .	61.7	63.2	64.4	68.3	72.5	---	67.0	67.6
High school diploma or GED . . . . .	80.0	80.2	78.1	81.2	82.7	---	77.2	73.9
Some college or more . . . . .	86.7	86.7	87.0	89.9	90.1	---	88.3	86.9
25–44 years:								
No high school diploma or GED . . . . .	77.3	73.1	76.3	78.4	78.6	---	74.9	76.5
High school diploma or GED . . . . .	87.6	85.6	82.5	87.4	86.2	---	83.5	79.5
Some college or more . . . . .	91.5	90.0	89.4	92.9	91.7	---	91.2	89.8
45–64 years:								
No high school diploma or GED . . . . .	63.9	65.5	68.1	73.2	77.5	---	70.5	75.0
High school diploma or GED . . . . .	77.0	78.8	78.5	81.6	84.1	---	80.2	78.5
Some college or more . . . . .	85.5	86.2	86.4	87.7	91.0	---	88.0	87.9
65 years and over:								
No high school diploma or GED . . . . .	48.4	51.3	48.8	52.7	59.7	---	49.3	43.2
High school diploma or GED . . . . .	60.4	63.8	62.5	65.0	71.3	---	56.9	53.9
Some college or more . . . . .	63.6	65.7	70.2	75.6	74.9	---	70.0	66.2
Disability measure <sup>8</sup>								
18 years and over, crude:								
Any basic actions difficulty or complex activity limitation . . . . .	---	---	---	77.8	78.6	---	73.8	73.7
Any basic actions difficulty . . . . .	---	---	---	77.8	78.5	---	74.0	74.1
Any complex activity limitation . . . . .	---	---	---	73.9	73.9	---	67.7	68.4
No disability . . . . .	---	---	---	84.5	85.1	---	84.0	82.1

See footnotes at end of table.

**Table 87 (page 5 of 5). Use of Pap smears among women 18 years of age and over, by selected characteristics: United States, selected years 1987–2008**

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

-- Data not available.

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

<sup>1</sup> Questions concerning use of Pap smears differed slightly on the National Health Interview Survey across the years for which data are shown. See Appendix II, Pap smear.

<sup>2</sup> Includes all other races not shown separately, unknown poverty level in 1987, unknown health insurance status, unknown education level, and unknown disability status.

<sup>3</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. Age-adjusted estimates in this table may differ from other age-adjusted estimates based on the same data and presented elsewhere if different age groups are used in the adjustment procedure. See Appendix II, Age adjustment.

<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. Starting with 1999 data, race-specific estimates are tabulated according to the 1997 Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity and are not strictly comparable with estimates for earlier years. The five single-race categories plus multiple-race categories shown in the table conform to the 1997 Standards. Starting with 1999 data, race-specific estimates are for persons who reported only one racial group; the category 2 or more races includes persons who reported more than one racial group. Prior to 1999, data were tabulated according to the 1977 Standards with four racial groups and the Asian only category included Native Hawaiian or Other Pacific Islander. Estimates for single-race categories prior to 1999 included persons who reported one race or, if they reported more than one race, identified one race as best representing their race. 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> 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 1993 and beyond. See Appendix II, Family income; Poverty; Table VII.

<sup>6</sup> Health insurance categories are mutually exclusive. Persons who reported both Medicaid and private coverage are classified as having private coverage. Starting with 1997 data, state-sponsored health plan coverage is included as Medicaid coverage. Starting with 1999 data, coverage by the Children's Health Insurance Program (CHIP) is included with Medicaid coverage. In addition to private and Medicaid, the insured category also includes military plans, other government-sponsored health plans, and Medicare, not shown separately. Persons not covered by private insurance, Medicaid, CHIP, public assistance (through 1996), state-sponsored or other government-sponsored health plans (starting in 1997), Medicare, or military plans are considered to have no health insurance coverage. Persons with only Indian Health Service coverage are considered to have no health insurance coverage. See Appendix II, Health insurance coverage.

<sup>7</sup> Education categories shown are for 1998 and subsequent years. GED is General Educational Development high school equivalency diploma. In years prior to 1998, the following categories based on number of years of school completed were used: less than 12 years, 12 years, 13 years or more. See Appendix II, Education.

<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> The U.S. Preventive Services Task Force recommends against routine Pap smear screening in women who have had a total hysterectomy for benign disease. Therefore, Pap smear screening estimates are presented among women who have not had a hysterectomy, in addition to the estimates among all women. Questions concerning hysterectomy differed slightly on the National Health Interview Survey across the years for which data are shown. See Appendix II, Pap smear.

NOTES: Standard errors are available in the spreadsheet version of this table. Available from: <http://www.cdc.gov/nchs/hus.htm>. Data starting in 1997 are not strictly comparable with data for earlier years due to the 1997 questionnaire redesign. See Appendix I, National Health Interview Survey. Data for additional years are available. See Appendix III.

SOURCE: CDC/NCHS, National Health Interview Survey. Data are from the following supplements: cancer control (1987), year 2000 objectives (1993–1994). Starting in 1998, data are from the family core and sample adult questionnaires.