Table 34. Use of Pap smear among women aged 18 and over, by selected characteristics: United States, selected years 1987–2018

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

Characteristic	1987	1993	1999	2000	2005	2008	2010	2015	2018
			Percent of	women havi	ng a Pap sm	near within p	ast 3 years <sup>1</sup>		
18 years and over, age adjusted <sup>2,3</sup>	74.1	77.7	80.8	81.3	77.9	75.6	73.7	70.2	68.1
18 years and over, crude <sup>2</sup>	74.4	77.7	80.8	81.2	77.7	75.1	73.2	69.0	66.0
Age group									
18–44 years	83.3	84.6	86.8	84.9	83.6	81.8	80.4	76.1	76.0
18–20 years	59.4	66.8	65.3	59.8	61.1	57.5	52.0	34.0	27.9
21–44 years	86.1	86.2	89.2	87.8	86.3	84.8	84.0	81.1	81.2
21–24 years	85.3	86.1	85.3	84.1	84.0	80.2	81.1	69.7	64.6
25–44 years	86.3	86.3	89.9	88.5	86.8	85.7	84.6	83.5	84.5
45–64 years	70.5	77.2	81.7	84.6	80.6	78.8	76.9	75.5	71.7
45–54 years	75.7	82.1	83.8	86.3	83.4	81.0	79.9	79.7	76.9
55–64 years	65.2	70.6	78.4	82.0	76.8	76.0	73.2	71.1	66.6
21–65 years	80.4	82.9	86.2	86.5	83.7	81.8	80.6	78.2	76.7
55 years and over	50.8	57.6	61.0	64.5	54.9	50.0	47.1	42.3	36.6
65–74 years	57.9	64.7	70.0	71.6	66.3	61.6	58.0	52.9	47.8
75 years and over	40.4	48.0	50.8	56.7	42.7	37.5	34.6	28.1	21.2
, Race⁴									
18 years and over, crude:									
White only	74.1	77.3	80.6	81.3	77.7	74.9	72.8	68.4	65.0
Black or African American only	80.7	82.7	85.7	85.1	81.1	80.1	77.9	74.6	75.1
American Indian or Alaska Native only	85.4	78.1	92.2	76.8	75.2	69.4	73.4	60.9	58.6
Asian only	51.9	68.8	64.4	66.4	64.1	65.1	68.0	64.9	62.8
Native Hawaiian or Other Pacific Islander only			*	*	*	*	*	*	*
2 or more races			86.9	80.0	86.2	77.1	70.8	72.5	61.0
Hispanic origin and race <sup>4</sup>									
18 years and over, crude:									
Hispanic or Latina	67.6	77.2	76.3	77.0	75.5	75.4	73.6	68.6	71.1
Not Hispanic or Latina	74.9	77.8	81.3	81.7	78.0	75.1	73.1	69.0	65.0
White only	74.7	77.3	81.0	81.8	78.1	74.9	72.8	68.4	63.7
Black or African American only	80.9	82.7	86.0	85.1	81.2	80.0	77.4	74.6	75.1
Age and Hispanic origin and race <sup>4</sup>									
, ,									
18–44 years:	72.0	00.0	77.0	70.1	7.5	77.0	75.0	70.0	744
Hispanic or Latina Not Hispanic or Latina:	73.9	80.9	77.0	78.1	76.5	77.9	75.9	70.2	74.4
White only	84.5	85.3	88.7	86.6	85.8	83.8	82.1	78.2	76.7
Black or African American only	89.1	88.0	90.8	88.5	86.4	83.5	84.2	82.1	84.8
45–64 years:									
Hispanic or Latina  Not Hispanic or Latina:	57.7	75.8	79.5	77.8	78.4	78.2	75.4	74.0	75.1
White only	71.2	77.2	81.9	85.9	81.4	79.0	77.2	75.5	70.4
Black or African American only	76.2	80.3	84.6	85.7	80.5	82.1	78.2	77.4	77.3
65 years and over:									
Hispanic or Latina	41.7	57.1	63.7	66.8	60.0	52.6	54.2	46.2	45.2
Not Hispanic or Latina:									
White only	51.8	57.1	60.5	64.2	54.1	49.0	46.5	41.9	35.1
Black or African American only	44.8	61.2	64.5	67.2	60.1	58.7	48.0	43.5	41.9

See footnotes at end of table.

Page 1 of 5 Trend Tables Health, United States, 2019

Table 34. Use of Pap smear among women aged 18 and over, by selected characteristics: United States, selected years 1987–2018—Con.

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

Characteristic	1987	1993	1999	2000	2005	2008	2010	2015	2018
Age and percent of poverty level <sup>5</sup>	Percent of women having a Pap smear within past 3 years <sup>1</sup>								
18 years and over, crude:				•			·		
Below 100%	64.3	70.3	73.6	72.0	68.7	68.9	65.1	63.2	60.5
100%–199%	68.2	71.2	72.5	73.4	69.0	65.0	64.3	60.3	58.2
200%–399%	77.6	80.6	80.6	80.2	77.9	72.5	71.3	66.6	64.7
400% or more	83.6	85.1	87.6	89.1	85.7	84.4	83.1	77.6	72.2
18-44 years:									
Below 100%	77.1	77.0	79.7	77.1	76.2	76.5	73.0	69.1	68.5
100%–199%	80.4	81.9	84.0	79.4	78.1	75.5	75.7	73.5	72.3
200%–399%	84.8	86.6	86.7	86.1	85.5	82.6	79.8	74.7	77.7
400% or more	88.9	91.3	91.1	89.8	88.7	87.0	88.9	83.2	79.7
45–64 years:									
Below 100%	53.6	66.5	73.1	73.6	65.9	66.2	61.7	63.7	61.9
100%–199%	60.4	64.8	70.4	76.1	69.6	65.6	63.2	64.2	61.1
200%-399%	71.0	79.5	79.9	80.0	79.3	75.3	75.2	73.5	70.2
400% or more	79.1	83.9	87.4	91.5	87.4	87.1	85.7	82.9	77.4
65 years and over:									
Below 100%	33.2	47.4	51.9	53.7	44.4	41.6	35.1	37.1	34.3
100%–199%	50.4	55.7	54.7	61.0	49.5	43.5	40.7	31.9	31.4
200%–399%	58.0	59.7	64.0	65.1	56.8	45.8	47.1	41.5	32.4
400% or more	65.2	67.5	70.4	75.4	64.6	65.7	57.7	52.3	44.6
Health insurance status at time of interview <sup>6</sup>									
18–64 years, crude:									
Insured		84.7	87.2	87.8	85.6	83.4	82.8	78.2	76.1
Private		84.8	87.5	88.0	86.5	84.2	84.2	79.6	77.2
Medicaid		82.7	84.2	85.8	80.9	80.3	78.0	72.6	72.1
Uninsured		69.4	73.3	70.4	67.7	67.1	61.9	57.3	59.6
Health insurance status prior to interview <sup>6</sup>									
18–64 years, crude:									
Insured continuously all 12 months		84.8	87.3	88.0	85.8	83.7	83.2	78.5	76.2
Uninsured for any period up to 12 months		81.8	83.5	83.7	81.3	78.9	78.3	72.0	69.4
Uninsured more than 12 months		65.1	68.8	65.1	62.0	62.1	55.2	51.0	55.8
Age and education <sup>7</sup>									
25 years and over, crude:									
No high school diploma or GED	57.1	61.9	66.1	69.9	64.1	60.6	56.7	55.9	53.9
High school diploma or GED	76.4	78.2	79.3	79.8	73.8	69.5	66.8	62.0	60.1
Some college or more	84.0	84.4	87.8	88.0	84.6	82.6	80.7	76.9	73.2
25–44 years:									
No high school diploma or GED	75.1	73.6	79.0	79.6	75.5	76.2	69.1	73.3	74.2
High school diploma or GED	85.6	85.4	87.6	86.2	83.1	80.0	79.0	75.1	78.9
Some college or more	90.1	89.8	93.0	91.4	90.5	89.3	89.0	87.2	87.3
45–64 years:									
No high school diploma or GED	58.0	65.6	71.6	75.7	69.7	70.4	63.4	60.3	62.1
High school diploma or GED	72.3	77.6	79.8	81.8	79.0	73.9	72.4	70.7	68.3
Some college or more	80.1	83.0	85.7	89.1	84.1	83.0	81.5	79.9	74.6
65 years and over:	•		• •	•	•				
No high school diploma or GED	44.0	50.7	51.8	56.6	46.0	36.7	37.7	32.9	27.8
High school diploma or GED	55.4	61.6	63.7	66.9	52.5	49.3	42.6	39.0	33.1
Some college or more	59.4	62.3	68.8	69.8	63.8	59.0	54.9	47.5	41.2
Level of difficulty <sup>8</sup>									
18 years and over, crude:									
A lot of difficulty or cannot do at all							57.3	47.6	46.0
Some difficulty							68.1	65.5	61.8
No difficulty							78.4	74.2	72.5

See footnotes at end of table.

Page 2 of 5 Trend Tables Health, United States, 2019

Table 34. Use of Pap smear among women aged 18 and over, by selected characteristics: United States, selected years 1987–2018—Con.

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

18 years and over, age adjusted <sup>2,3</sup>	sof women having a those who have th				72.9 73.9 76.2 34.0 81.4 69.5 84.1 81.0	70.7 71.5 76.4 27.9 81.8 64.6 85.5
18 years and over, crude².       77.8       80.0       8         Age group         18–44 years.       85.1       84.7       8         18–20 years.       62.1       67.3       6         21–44 years.       87.7       86.4       8         21–24 years.       85.9       86.0       8         25–44 years.       88.1       86.5       8         45–64 years.       75.8       79.2       8         45–64 years.       80.9       82.9       8         55–64 years.       80.9       82.9       8         55–64 years.       83.4       84.3       8         65 years and over.       55.4       59.7       6         65–74 years.       62.8       67.9       7         75 years and over.       44.4       49.9       5         Race4       18 years and over, crude:       White only.       77.8       79.9       8         Black or African American only.       82.3       83.3       8         American Indian or Alaska Native only.       52.5       69.6       6         Native Hawaiian or       0       77.8       79.9       8         Hispanic or Latina       78	81.6 82.7 82.6 83.3 86.3 84.9 63.3 59.8 89.0 88.0 84.8 84.3 89.7 88.7 83.8 86.9 85.5 87.6 80.6 85.5 87.3 87.6 63.7 68.6 71.9 75.9	79.5 80.7 83.8 61.3 86.6 84.0 87.2 83.3 85.5 79.6 85.3 59.1 72.1	78.1 79.3 81.8 57.6 85.0 80.2 86.0 83.7 83.8 83.6 84.4 56.1	76.2 77.3 80.3 52.0 84.0 81.1 84.7 81.6 83.1 79.4	73.9 76.2 34.0 81.4 69.5 84.1	71.5 76.4 27.9 81.8 64.6 85.5
Age group  18–44 years	86.3 84.9 63.3 59.8 89.0 88.0 84.8 84.3 89.7 88.7 83.8 86.9 85.5 87.6 80.6 85.5 87.3 87.6 63.7 68.6 71.9 75.9	83.8 61.3 86.6 84.0 87.2 83.3 85.5 79.6 85.3 59.1 72.1	81.8 57.6 85.0 80.2 86.0 83.7 83.8 83.6 84.4 56.1	80.3 52.0 84.0 81.1 84.7 81.6 83.1 79.4	76.2 34.0 81.4 69.5 84.1	76.4 27.9 81.8 64.6 85.5
18–44 years     85.1     84.7     8       18–20 years     62.1     67.3     6       21–24 years     85.9     86.0     8       25–44 years     85.9     86.0     8       25–44 years     88.1     86.5     8       45–64 years     75.8     79.2     8       45–54 years     80.9     82.9     8       45–54 years     80.9     82.9     8       55–64 years     70.5     73.6     8       21–65 years     83.4     84.3     8       65 years and over     55.4     59.7     6       65–74 years     62.8     67.9     7       75 years and over, crude:       White only     77.8     79.9     8       Black or African American only     85.9     78.2     9       Asian only     52.5     69.6     6       Native Hawaiian or     7     77.8     79.9     8       Hispanic origin and race <sup>4</sup> 18 years and over, crude:     85.9     78.2     9       Hispanic or Latina     78.5     80.2     8       White only     78.6     80.2     8       Black or African American only     82.4     83.4     8       44 years:	63.3 59.8 89.0 88.0 84.8 84.3 89.7 88.7 83.8 86.9 85.5 87.6 80.6 85.5 87.3 87.6 63.7 68.6 71.9 75.9	61.3 86.6 84.0 87.2 83.3 85.5 79.6 85.3 59.1 72.1	57.6 85.0 80.2 86.0 83.7 83.8 83.6 84.4 56.1	52.0 84.0 81.1 84.7 81.6 83.1 79.4	34.0 81.4 69.5 84.1	27.9 81.8 64.6 85.5
18-20 years       62.1       67.3       6         21-44 years       87.7       86.4       8         21-24 years       85.9       86.0       8         25-44 years       88.1       86.5       8         45-64 years       75.8       79.2       8         45-54 years       80.9       82.9       8         55-64 years       70.5       73.6       8         21-65 years       83.4       84.3       8         65 years and over       55.4       59.7       6         65-74 years       62.8       67.9       7         75 years and over, crude:       White only       77.8       79.9       8         8 years and over, crude:       White only       85.9       78.2       9         Asian only       77.8       79.9       8       8       8       3.3       8         Native Hawaiian or       70.6       60.6        8       7       3       7 <td>63.3 59.8 89.0 88.0 84.8 84.3 89.7 88.7 83.8 86.9 85.5 87.6 80.6 85.5 87.3 87.6 63.7 68.6 71.9 75.9</td> <td>61.3 86.6 84.0 87.2 83.3 85.5 79.6 85.3 59.1 72.1</td> <td>57.6 85.0 80.2 86.0 83.7 83.8 83.6 84.4 56.1</td> <td>52.0 84.0 81.1 84.7 81.6 83.1 79.4</td> <td>34.0 81.4 69.5 84.1</td> <td>27.9 81.8 64.6 85.5</td>	63.3 59.8 89.0 88.0 84.8 84.3 89.7 88.7 83.8 86.9 85.5 87.6 80.6 85.5 87.3 87.6 63.7 68.6 71.9 75.9	61.3 86.6 84.0 87.2 83.3 85.5 79.6 85.3 59.1 72.1	57.6 85.0 80.2 86.0 83.7 83.8 83.6 84.4 56.1	52.0 84.0 81.1 84.7 81.6 83.1 79.4	34.0 81.4 69.5 84.1	27.9 81.8 64.6 85.5
18-20 years       62.1       67.3       6         21-44 years       87.7       86.4       8         21-24 years       85.9       86.0       8         25-44 years       88.1       86.5       8         45-64 years       75.8       79.2       8         45-54 years       80.9       82.9       8         55-64 years       70.5       73.6       8         21-65 years       83.4       84.3       8         65 years and over       55.4       59.7       6         65-74 years       62.8       67.9       7         75 years and over, crude:       White only       77.8       79.9       8         8 years and over, crude:       White only       85.9       78.2       9         Asian only       77.8       79.9       8       8       8       3.3       8         Native Hawaiian or       70.6       60.6        8       7       3       7 <td>63.3 59.8 89.0 88.0 84.8 84.3 89.7 88.7 83.8 86.9 85.5 87.6 80.6 85.5 87.3 87.6 63.7 68.6 71.9 75.9</td> <td>61.3 86.6 84.0 87.2 83.3 85.5 79.6 85.3 59.1 72.1</td> <td>57.6 85.0 80.2 86.0 83.7 83.8 83.6 84.4 56.1</td> <td>84.0 81.1 84.7 81.6 83.1 79.4</td> <td>34.0 81.4 69.5 84.1</td> <td>81.8 64.6 85.5</td>	63.3 59.8 89.0 88.0 84.8 84.3 89.7 88.7 83.8 86.9 85.5 87.6 80.6 85.5 87.3 87.6 63.7 68.6 71.9 75.9	61.3 86.6 84.0 87.2 83.3 85.5 79.6 85.3 59.1 72.1	57.6 85.0 80.2 86.0 83.7 83.8 83.6 84.4 56.1	84.0 81.1 84.7 81.6 83.1 79.4	34.0 81.4 69.5 84.1	81.8 64.6 85.5
21–24 years. 87.7 86.4 8 21–24 years. 85.9 86.0 8 25–44 years 88.1 86.5 8 45–64 years 75.8 79.2 8 45–54 years 75.8 79.2 8 45–54 years 70.5 73.6 8 55–64 years 83.4 84.3 8 65 years and over 55.4 59.7 6 65–74 years 62.8 67.9 7 75 years and over 44.4 49.9 5  Race <sup>4</sup> 18 years and over, crude:  White only. 77.8 79.9 8 Black or African American only 85.9 78.2 9 Asian only 52.5 69.6 6 Native Hawaiian or Other Pacific Islander only 52.5 69.6 6 Native Hawaiian or Other Pacific Islander only 78.5 80.2 8 Hispanic or Latina 78.5 80.2 8 White only. 78.6 80.2 8 Black or African American only 78.6 80.2 8 Black or African American only 78.6 80.2 8 Black or African American only 78.5 80.2 7 Not Hispanic or Latina 78.5 80.2 8 Black or African American only 78.6 80.2 8 Black or African American only 78.6 80.2 8 Black or African American only 86.5 85.7 8 Black or African American only 90.3 87.6 9 45–64 years:	89.0 88.0 84.8 84.3 89.7 88.7 83.8 86.9 85.5 87.6 80.6 85.5 87.3 87.6 63.7 68.6 71.9 75.9	84.0 87.2 83.3 85.5 79.6 85.3 59.1 72.1	80.2 86.0 83.7 83.8 83.6 84.4 56.1	81.1 84.7 81.6 83.1 79.4	69.5 84.1	64.6 85.5
21-24 years       85.9       86.0       8         25-44 years       88.1       86.5       8         45-64 years       75.8       79.2       8         45-64 years       70.5       73.6       8         55-64 years       70.5       73.6       8         21-65 years       83.4       84.3       84.3         85 years and over       55.4       59.7       6         65-74 years       62.8       67.9       7         75 years and over       44.4       49.9       5         Race <sup>4</sup> 18 years and over, crude:       White only       77.8       79.9       8         Black or African American only       82.3       83.3       8         American Indian or Alaska Native only       85.9       78.2       9         Asian only       52.5       69.6       6         Native Hawaiian or         2         Other Pacific Islander only       52.5       69.6       6         Native Hawaiian or         8         Hispanic or Latina       78.5       80.2       8         White only       78.5       80.2       8 <tr< td=""><td>84.8 84.3 89.7 88.7 83.8 86.9 85.5 87.6 80.6 85.5 87.3 87.6 63.7 68.6 71.9 75.9</td><td>84.0 87.2 83.3 85.5 79.6 85.3 59.1 72.1</td><td>80.2 86.0 83.7 83.8 83.6 84.4 56.1</td><td>81.1 84.7 81.6 83.1 79.4</td><td>69.5 84.1</td><td>64.6 85.5</td></tr<>	84.8 84.3 89.7 88.7 83.8 86.9 85.5 87.6 80.6 85.5 87.3 87.6 63.7 68.6 71.9 75.9	84.0 87.2 83.3 85.5 79.6 85.3 59.1 72.1	80.2 86.0 83.7 83.8 83.6 84.4 56.1	81.1 84.7 81.6 83.1 79.4	69.5 84.1	64.6 85.5
25-44 years	89.7 88.7 83.8 86.9 85.5 87.6 80.6 85.5 87.3 87.6 63.7 68.6 71.9 75.9	87.2 83.3 85.5 79.6 85.3 59.1 72.1	86.0 83.7 83.8 83.6 84.4 56.1	84.7 81.6 83.1 79.4	84.1	85.5
45–64 years	83.8 86.9 85.5 87.6 80.6 85.5 87.3 87.6 63.7 68.6 71.9 75.9	83.3 85.5 79.6 85.3 59.1 72.1	83.7 83.8 83.6 84.4 56.1	81.6 83.1 79.4		
45–54 years. 80.9 82.9 8 55–64 years 70.5 73.6 8 21–65 years 83.4 84.3 8 65 years and over 55.4 59.7 6 65–74 years 62.8 67.9 7 75 years and over 44.4 49.9 5  Race <sup>4</sup> 18 years and over, crude:  White only 77.8 79.9 8 Black or African American only 82.3 83.3 8 American Indian or Alaska Native only 85.9 78.2 9 Asian only 52.5 69.6 6 Native Hawaiian or Other Pacific Islander only 78.5 80.2 8 Hispanic or Latina 78.5 80.2 8 White only 78.6 80.2 8 Black or African American only 82.4 83.4 8  Age and Hispanic origin and race <sup>4</sup> 18 -44 years: Hispanic or Latina 75.1 80.2 7 Not Hispanic or Latina 75.1 80.2 7	85.5 87.6 80.6 85.5 87.3 87.6 63.7 68.6 71.9 75.9	85.5 79.6 85.3 59.1 72.1	83.8 83.6 84.4 56.1	83.1 79.4		77.9
55–64 years 70.5 73.6 8 21–65 years 83.4 84.3 8 65 years and over 55.4 59.7 6 65–74 years 62.8 67.9 7 75 years and over 44.4 49.9 5  Race <sup>4</sup> 18 years and over, crude:  White only 77.8 79.9 8 Black or African American only 82.3 83.3 8 American Indian or Alaska Native only 85.9 78.2 9 Asian only 52.5 69.6 6 Native Hawaiian or Other Pacific Islander only 78.5 80.2 8 Hispanic or Latina 69.8 77.3 7 Not Hispanic or Latina 78.5 80.2 8 White only 78.6 80.2 8 Black or African American only 82.4 83.4 8 Age and Hispanic origin and race <sup>4</sup> 18–44 years: Hispanic or Latina 75.1 80.2 7 Not Hispanic or Latina 90.3 87.6 9 45–64 years:	80.6 85.5 87.3 87.6 63.7 68.6 71.9 75.9	79.6 85.3 59.1 72.1	83.6 84.4 56.1	79.4	83.3	81.2
21–65 years. 83.4 84.3 8 65 years and over. 55.4 59.7 6 65–74 years. 62.8 67.9 7 75 years and over. 44.4 49.9 5  Race <sup>4</sup> 18 years and over, crude:  White only. 77.8 79.9 8 Black or African American only. 82.3 83.3 8 American Indian or Alaska Native only 85.9 78.2 9 Asian only. 52.5 69.6 6 Native Hawaiian or Other Pacific Islander only 8  Hispanic origin and race <sup>4</sup> 18 years and over, crude:  Hispanic or Latina 69.8 77.3 7 Not Hispanic or Latina 78.5 80.2 8 White only. 78.6 80.2 8 Black or African American only. 82.4 83.4 8  Age and Hispanic origin and race <sup>4</sup> 18–44 years:  Hispanic or Latina 75.1 80.2 7 Not Hispanic or Latina 75.1 80.2 7	87.3 87.6 63.7 68.6 71.9 75.9	85.3 59.1 72.1	84.4 56.1		78.4	74.3
65 years and over	63.7 68.6 71.9 75.9	59.1 72.1	56.1		81.1	80.1
65–74 years	71.9 75.9	72.1		54.1	49.9	42.4
75 years and over.       44.4       49.9       5         Race <sup>4</sup> 18 years and over, crude:       77.8       79.9       8         Black or African American only.       82.3       83.3       8         American Indian or Alaska Native only       85.9       78.2       9         Asian only.       52.5       69.6       6         Native Hawaiian or          2         Other Pacific Islander only.        8        8         Hispanic origin and race <sup>4</sup> 8       77.3       7         Not Hispanic or Latina       78.5       80.2       8         White only.       78.6       80.2       8         Black or African American only.       82.4       83.4       8         Age and Hispanic origin and race <sup>4</sup> 8       8       8       7         Not Hispanic or Latina       75.1       80.2       7         Not Hispanic or Latina:       75.1       80.2       7         Not Hispanic or Latina:       86.5       85.7       8         Black or African American only.       86.5       85.7       8         Black or African American only.       90.3       87.6			() 7 7	66.9	62.3	54.2
Race <sup>4</sup> 18 years and over, crude:  White only		40.2	41.9	39.3	31.4	22.8
18 years and over, crude:  White only						
White only.       77.8       79.9       8         Black or African American only.       82.3       83.3       8         American Indian or Alaska Native only       85.9       78.2       9         Asian only.       52.5       69.6       6         Native Hawaiian or            Other Pacific Islander only.         8         2 or more races.         8         Hispanic origin and race <sup>4</sup> 8       77.3       7         Not Hispanic or Latina       69.8       77.3       7         Not Hispanic or Latina       78.6       80.2       8         Black or African American only.       82.4       83.4       8         Age and Hispanic origin and race <sup>4</sup> 8       8       75.1       80.2       7         Not Hispanic or Latina       75.1       80.2       7         Not Hispanic or Latina:       75.1       80.2       7         Not Hispanic or Latina:       86.5       85.7       8         Black or African American only.       90.3       87.6       9         45-64 years:						
Black or African American only       82.3       83.3       8         American Indian or Alaska Native only       85.9       78.2       9         Asian only       52.5       69.6       6         Native Hawaiian or       69.6       6         Other Pacific Islander only           2 or more races        8         Hispanic origin and race <sup>4</sup> 8       77.3       7         Not Hispanic or Latina       69.8       77.3       7         Not Hispanic or Latina       78.5       80.2       8         Black or African American only       82.4       83.4       8         Age and Hispanic origin and race <sup>4</sup> 82.4       83.4       8         18–44 years:        75.1       80.2       7         Not Hispanic or Latina       75.1       80.2       7         Not Hispanic or Latina:       86.5       85.7       8         Black or African American only       90.3       87.6       9         45–64 years:	82.8 83.7	81.1	79.6	77.4	73.9	71.1
American Indian or Alaska Native only 85.9 78.2 9 Asian only 52.5 69.6 6 Native Hawaiian or Other Pacific Islander only 8 Hispanic origin and race <sup>4</sup> 18 years and over, crude: Hispanic or Latina 69.8 77.3 7 Not Hispanic or Latina 78.5 80.2 8 White only 78.6 80.2 8 Black or African American only 82.4 83.4 8 Age and Hispanic origin and race <sup>4</sup> 18–44 years: Hispanic or Latina 75.1 80.2 7 Not Hispanic or Latina 75.1 80.2 7 Not Hispanic or Latina 75.1 80.2 7 Not Hispanic or Latina 86.5 85.7 8 Black or African American only 90.3 87.6 9 45–64 years:	87.2 86.8	82.1	82.5	80.8	77.9	79.6
Asian only	94.1 77.7	75.6	74.8	78.9	65.5	65.3
Native Hawaiian or Other Pacific Islander only	63.4 66.9	64.6	65.3	69.7	67.0	65.1
Other Pacific Islander only						
2 or more races	* *	*	*	*	*	*
18 years and over, crude:  Hispanic or Latina	87.5 82.2	88.8	81.6	72.5	78.1	65.0
Hispanic or Latina						
Not Hispanic or Latina       78.5       80.2       8         White only.       78.6       80.2       8         Black or African American only.       82.4       83.4       8         Age and Hispanic origin and race <sup>4</sup> 18–44 years:       75.1       80.2       7         Not Hispanic or Latina:       75.1       80.2       7         Not Hispanic or Latina:       86.5       85.7       8         Black or African American only.       90.3       87.6       9         45–64 years:						
Not Hispanic or Latina       78.5       80.2       8         White only.       78.6       80.2       8         Black or African American only.       82.4       83.4       8         Age and Hispanic origin and race <sup>4</sup> 18–44 years:       75.1       80.2       7         Not Hispanic or Latina:       75.1       80.2       7         Not Hispanic or Latina:       86.5       85.7       8         Black or African American only.       90.3       87.6       9         45–64 years:	75.1 78.0	75.9	77.3	74.7	70.3	73.1
Black or African American only.       82.4       83.4       8         Age and Hispanic origin and race <sup>4</sup> 18–44 years:       75.1       80.2       7         Not Hispanic or Latina:       86.5       85.7       8         Black or African American only.       90.3       87.6       9         45–64 years:	83.5 84.0	81.4	79.6	77.8	74.6	71.1
Black or African American only.       82.4       83.4       8         Age and Hispanic origin and race <sup>4</sup> 18–44 years:       75.1       80.2       7         Not Hispanic or Latina:       86.5       85.7       8         Black or African American only.       90.3       87.6       9         45–64 years:	83.6 84.4	82.1	80.2	78.1	74.8	70.6
18–44 years:       75.1       80.2       7         Hispanic or Latina:       75.1       80.2       7         Not Hispanic or Latina:       86.5       85.7       8         Black or African American only.       90.3       87.6       9         45–64 years:       90.3       90.3       90.3       9	87.5 86.8	82.3	82.4	80.4	77.9	79.7
Hispanic or Latina       75.1       80.2       7         Not Hispanic or Latina:       White only.       86.5       85.7       8         Black or African American only.       90.3       87.6       9         45–64 years:						
Not Hispanic or Latina:       86.5       85.7       8         White only						
Not Hispanic or Latina:       86.5       85.7       8         White only	76.0 77.9	76.5	78.3	75.6	69.9	74.7
White only.       86.5       85.7       8         Black or African American only.       90.3       87.6       9         45–64 years:       90.3       90.3       90.3       9			***	*		
Black or African American only 90.3 87.6 9 45–64 years:	88.3 86.6	86.2	83.9	82.1	78.6	77.4
45–64 years:	90.6 88.7	86.1	83.3	84.0	81.9	84.3
		20				3
755	77.8 81.0	78.6	81.0	77.7	77.6	77.8
Not Hispanic or Latina:		, 0.0	00			0
·	84.7 88.5	85.0	84.7	82.7	81.9	77.9
		80.7	85.6	81.7	81.6	82.4
65 years and over:	86.6 87.4	· · · · · · · · · · · · · · · · · · ·	00.0	· · · ·	00	32.1
•	86.6 87.4	60.0	53.7	56.4	51.1	48.8
Not Hispanic or Latina:		00.0	33.,	30.1	31.1	10.0
·	86.6 87.4 60.9 71.2	59.2	56.2	54.4	50.3	40.9
Black or African American only		59.3	64.1	52.7	46.2	49.9

See footnotes at end of table.

Page 3 of 5 Trend Tables Health, United States, 2019

Table 34. Use of Pap smear among women aged 18 and over, by selected characteristics: United States, selected years 1987–2018—Con.

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

Characteristic	1987	1993	1999	2000	2005	2008	2010	2015	2018
		Perce		en having a F				g	
Age and percent of poverty level <sup>5</sup>			thos	e who have	not had a h	ysterectomy	9		
8 years and over, crude:									
Below 100%	67.5	71.7	74.8	73.8	70.3	72.3	67.6	66.1	63.5
100%–199%	71.6	73.7	75.2	75.7	72.6	69.6	69.3	66.2	64.1
200%–399%	81.0	83.0	82.5	83.0	81.4	77.3	76.0	71.6	70.4
400% or more	87.0	87.8	88.9	90.5	88.2	87.8	87.1	82.5	78.0
18–44 years:	70.2	77.0	70.0	74.0	74.4	74.4	72.0	60.2	
Below 100%	79.3	77.2	79.0	76.8	76.1	76.6	73.0	69.3	68.5
100%–199%	81.8	82.1	83.7	79.2	78.1	75.4	75.6	73.6	72.9
200%–399%	86.6	86.5	86.2	86.0	86.1	82.4	79.7	74.8	78.0
400% or more	90.2	91.9	90.6	90.0	88.8	87.3	88.9	83.4	80.3
45–64 years:	58.0	65.8	74.7	75.6	64.8	70.7	63.7	67.8	65.9
Below 100%									
100%–199%	66.1	64.2	72.2	78.2	71.3	70.0	67.8	70.0	66.3
200%–399%	76.9	82.2	81.2 89.7	81.7	81.7	79.5	79.5	79.6	74.9
	84.4	86.6	89.7	93.7	90.9	92.4	90.8	88.0	84.7
65 years and over:  Below 100%	26.4	47.5	F2 F	FF 0	42.7	447	26.5	41.5	27.0
	36.4	47.5	53.5	55.9	43.7	44.7	36.5	41.5	37.8
100%–199%	54.6	56.6	56.3	63.3	54.4	48.7	48.1	37.1	35.5
200%–399%	62.8	63.5	68.3	71.8	61.4	53.3	56.1	48.1	38.4
400% or more	73.0	71.7	72.9	78.6	70.1	70.9	63.7	62.4	51.5
Health insurance status at time of interview <sup>6</sup>									
18–64 years, crude:									
Insured		85.9	87.8	88.7	87.1	85.8	85.1	80.5	79.3
Private		86.0	88.1	88.8	87.9	86.6	86.2	81.8	80.2
Medicaid		83.9	84.2	86.9	82.6	82.4	79.7	74.8	74.9
Uninsured		70.2	74.3	70.8	68.0	67.9	63.1	59.3	60.3
Health insurance status prior to interview <sup>6</sup>									
18–64 years, crude:									
Insured continuously all 12 months		86.1	88.0	88.9	87.2	86.1	85.4	80.9	79.5
Uninsured for any period up to 12 months		81.7	84.4	84.4	82.7	80.9	79.7	73.9	70.5
Uninsured more than 12 months		66.5	69.9	65.5	62.7	62.4	56.6	52.8	56.6
Age and education <sup>7</sup>									
25 years and over, crude:									
No high school diploma or GED	61.7	63.2	68.3	72.5	66.9	67.5	61.0	61.7	60.5
High school diploma or GED	80.0	80.2	81.2	82.7	77.1	73.6	71.5	67.9	67.4
Some college or more	86.7	86.7	89.9	90.1	88.2	86.8	85.3	82.9	79.6
25–44 years:									
No high school diploma or GED	77.3	73.1	78.4	78.6	74.7	76.5	69.0	73.8	75.1
High school diploma or GED	87.6	85.6	87.4	86.2	83.4	79.5	78.8	75.5	79.8
Some college or more	91.5	90.0	92.9	91.7	91.1	89.7	89.2	87.8	88.2
45–64 years:									
No high school diploma or GED	63.9	65.5	73.2	77.5	70.5	74.8	66.8	65.3	66.8
High school diploma or GED	77.0	78.8	81.6	84.1	80.1	77.9	75.8	76.1	73.4
Some college or more	85.5	86.2	87.7	91.0	87.9	87.9	86.4	85.4	81.4
65 years and over:									
No high school diploma or GED	48.4	51.3	52.7	59.7	49.2	43.0	40.6	36.9	32.3
High school diploma or GED	60.4	63.8	65.0	71.3	56.5	53.6	48.7	43.4	39.9
Some college or more	63.6	65.7	75.6	74.9	69.9	66.1	64.0	58.2	46.8
Level of difficulty <sup>8</sup>									
18 years and over, crude:									
A lot of difficulty or cannot do at all							62.7	54.4	55.2
							J,	J 10 1	ے.۔
Some difficulty							72.8	72.4	68.5

See footnotes at end of table.

Page 4 of 5 Trend Tables Health, United States, 2019

## Table 34. Use of Pap smear among women aged 18 and over, by selected characteristics: United States, selected years 1987–2018—Con.

Excel version (with more data years and standard errors when available): https://www.cdc.gov/nchs/hus/contents2019.htm#Table-034

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

## --- Data not available

\* Estimates are considered unreliable. Starting with 2018 data, the reliability of survey percentage estimates is assessed using new multistep National Center for Health Statistics data presentation standards for proportions. Before 2018 data, the reliability of estimates was evaluated based on relative standard errors (RSEs). Data preceded by an asterisk have an RSE of 20%–30%. Data not shown have an RSE greater than 30%. For more information, see Appendix II, Data presentation standards for proportions; Relative standard error (RSE).

<sup>1</sup>Includes all women aged 18 and over who had a Pap smear (Pap test) within the past 3 years, including women who reported having had a hysterectomy. Questions about use of Pap smears differ slightly on the National Health Interview Survey (NHIS) across survey years. See Appendix II, Pap smear. Data before 1997 are not strictly comparable with data for later years due to the 1997 questionnaire redesign. See Appendix I, National Health Interview Survey (NHIS).

Includes all other races not shown separately and those with 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

"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 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- and multiple-race categories shown follow 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. Before 1999, data were tabulated with four racial groups according to the 1977 standards, and the Asian only category included Native Hawaiian or Other Pacific Islander. Estimates for single-race categories before 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 are to imple race are treated as missing, and then race is imputed if these were the only race responses. Almost all persons with a race response of other race are 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. Poverty level was unknown for 9% of women aged 18 and over in 1987. Missing family income data are 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

\*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 as Medicaid coverage. In addition to private and Medicaid, the insured category includes military plans, other government-sponsored health plans, and Medicare. 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.

health insurance coverage. See Appendix II, Health Insurance coverage.

Feducation categories shown are for 1998 and subsequent years. GED is high school equivalency diploma. Before 1998, the following categories were used based on the number of years of school completed: less than 12 years, 12 years, and 13 years or more. See Appendix II, Education.

<sup>8</sup>Functional limitation is defined by the reported level of difficulty in six domains of functioning: seeing (even if wearing glasses), hearing (even if wearing hearing aids), mobility (walking or climbing stairs), communication (understanding or being understood by others), cognition (remembering or concentrating), and self-care (such as washing all over or dressing). Respondents with answers to one or more of the six questions are included in one of three mutually exclusive categories. Adults who respond "a lot of difficulty" or cannot do at all/unable to do" to at least one question are classified in the "a lot of difficulty or cannot do at all" category. Of the remaining respondents, adults who respond "some difficulty" to at least one question are classified in the "some difficulty" category, and adults who respond "no difficulty" to all questions are classified in the "no difficulty" category. Adults who respond "don't know" or "refused" to all six questions are excluded. During 2010–2018, 1%–8% of respondents were missing data and excluded. See Appendix II. Functional limitation

<sup>9</sup>U.S. Preventive Services Task Force recommends against screening for cervical cancer in women who have had a hysterectomy with removal of the cervix and do not have a history of a high-grade precancerous lesion (i.e., cervical intraepithelial neoplasia [CIN] grade 2 or 3) or cervical cancer. NHIS does not collect sufficient data to determine whether a woman had a hysterectomy that included removal of the cervix, or whether a woman had a history of a high-grade precancerous lesion. Questions concerning hysterectomy differed slightly on NHIS across survey years. See Appendix II, Pap smear.

NOTES: In 2012, the U.S. Preventive Services Task Force (USPSTF) recommended Pap smears every 3 years for women aged 21–65. In 2018, USPSTF further refined its recommendations for women aged 30–65 to have screening every 3 years with Pap smears for cervical cancer alone, every 5 years with human papillomavirus (HPV) testing alone, or every 5 years with HPV testing in combination with Pap smears. The 2018 USPSTF recommendations have not been applied to Health, United States estimates. For more information, see https://www.aafp.org/afp/2012/0915/p555.html and Appendix II, Pap smear. Standard errors and data for additional years are available in the Excel spreadsheet version of this table on the Health, United States website at: https://www.cdc.gov/nchs/hus/index.htm.

SOURCE: NCHS, National Health Interview Survey. Data are from the following questionnaire supplements: Cancer Control (1987), Year 2000 Objectives (1993–1994), and Prevention (1998). Starting in 1999, data are from either the Cancer Module or the Cancer Screening supplement of the Sample Adult questionnaire in addition to the Family Core questionnaire. Data for level of difficulty are from the 2010 Quality of Life, 2011–2017 Functioning and Disability, and 2018 Sample Adult questionnaires. See Appendix I, National Health Interview Survey (NHIS).

Page 5 of 5 Trend Tables Health, United States, 2019