

Table 41 (page 1 of 3). Death rates for chronic lower respiratory diseases, according to sex, race, Hispanic origin, and age: United States, selected years 1980–2001

[Data are based on death certificates]

Sex, race, Hispanic origin, and age	1980	1990	1995	1998	Comparability modified			
					1998 ¹	1999 ¹	2000	2001
All persons								
Deaths per 100,000 resident population								
All ages, age adjusted ²	28.3	37.2	40.1	41.8	43.8	45.4	44.2	43.7
All ages, crude	24.7	34.9	38.6	40.8	42.8	44.5	43.4	43.2
Under 1 year	1.6	1.4	1.1	1.0	1.0	0.9	0.9	1.0
1–4 years	0.4	0.4	0.2	0.3	0.3	0.4	0.3	0.3
5–14 years	0.2	0.3	0.4	0.4	0.4	0.3	0.3	0.3
15–24 years	0.3	0.5	0.7	0.6	0.6	0.5	0.5	0.4
25–34 years	0.5	0.7	0.9	0.8	0.8	0.8	0.7	0.7
35–44 years	1.6	1.6	1.9	2.0	2.1	2.0	2.1	2.2
45–54 years	9.8	9.1	8.7	8.0	8.4	8.5	8.6	8.5
55–64 years	42.7	48.9	46.8	44.1	46.2	47.5	44.2	44.1
65–74 years	129.1	152.5	159.6	167.4	175.4	177.2	169.4	167.9
75–84 years	224.4	321.1	349.3	363.7	381.1	397.8	386.1	379.8
85 years and over	274.0	433.3	520.1	572.2	599.6	646.0	648.6	644.7
Male								
All ages, age adjusted ²	49.9	55.5	54.8	54.4	57.0	58.7	55.8	54.0
All ages, crude	35.1	40.8	41.4	42.2	44.2	45.6	43.5	42.7
Under 1 year	1.9	1.6	1.4	1.2	1.3	---	1.2	1.1
1–4 years	0.5	0.5	0.2	0.4	0.4	0.4	0.4	0.4
5–14 years	0.2	0.4	0.5	0.4	0.4	0.4	0.4	0.3
15–24 years	0.4	0.5	0.7	0.8	0.8	0.6	0.6	0.5
25–34 years	0.6	0.7	0.9	0.9	0.9	0.8	0.8	0.7
35–44 years	1.7	1.7	1.7	1.9	2.0	1.8	1.9	2.0
45–54 years	12.1	9.4	8.8	8.0	8.4	8.6	9.0	8.8
55–64 years	59.9	58.6	52.3	48.6	50.9	52.3	47.8	46.9
65–74 years	210.0	204.0	195.6	199.1	208.6	210.7	195.2	191.3
75–84 years	437.4	500.0	483.8	476.4	499.2	513.2	488.5	475.1
85 years and over	583.4	815.1	889.8	900.6	943.6	996.7	967.9	916.9
Female								
All ages, age adjusted ²	14.9	26.6	31.8	34.4	36.0	37.7	37.4	37.6
All ages, crude	15.0	29.2	36.0	39.5	41.4	43.4	43.2	43.7
Under 1 year	1.3	1.2	*	*	*	*	*	*
1–4 years	*	*	*	*	*	0.3	0.3	*
5–14 years	0.3	0.3	0.2	0.3	0.3	0.2	0.3	0.2
15–24 years	0.3	0.5	0.6	0.5	0.5	0.5	0.4	0.4
25–34 years	0.5	0.7	0.9	0.8	0.8	0.9	0.7	0.7
35–44 years	1.5	1.5	2.2	2.0	2.1	2.1	2.2	2.3
45–54 years	7.7	8.8	8.7	8.1	8.5	8.4	8.3	8.1
55–64 years	27.6	40.3	41.9	40.1	42.0	43.1	41.0	41.5
65–74 years	67.1	112.3	130.8	141.7	148.5	149.8	148.2	148.5
75–84 years	98.7	214.2	265.3	291.1	305.0	322.9	319.2	317.3
85 years and over	138.7	286.0	377.7	441.7	462.8	504.6	518.5	530.8
White male ³								
All ages, age adjusted ²	51.6	56.6	55.9	55.7	58.4	60.0	57.2	55.5
All ages, crude	37.9	44.3	45.5	46.7	48.9	50.6	48.3	47.6
35–44 years	1.2	1.3	1.4	1.5	1.6	1.5	1.6	1.7
45–54 years	11.4	8.6	8.1	7.4	7.8	8.1	8.4	8.6
55–64 years	60.0	58.7	52.7	49.2	51.6	53.1	48.6	48.0
65–74 years	218.4	208.1	200.0	205.7	215.5	217.3	201.4	198.3
75–84 years	459.8	513.5	497.9	489.8	513.2	525.4	503.6	489.4
85 years and over	611.2	847.0	918.3	930.5	975.0	1,029.4	997.4	943.6
Black or African American male ³								
All ages, age adjusted ²	34.0	47.6	47.4	46.4	48.6	51.5	47.5	46.3
All ages, crude	19.3	25.2	24.4	23.9	25.0	26.2	24.3	23.6
35–44 years	5.8	5.3	4.3	4.9	5.1	4.7	4.8	4.7
45–54 years	19.7	18.8	16.9	14.5	15.2	15.3	15.0	13.3
55–64 years	66.6	67.4	60.5	54.4	57.0	59.3	54.6	49.8
65–74 years	142.0	184.5	178.7	170.1	178.2	184.6	176.9	168.0
75–84 years	229.8	390.9	370.0	381.8	400.1	434.4	370.3	380.8
85 years and over	271.6	498.0	624.1	613.5	642.8	701.9	693.1	671.7

See footnotes at end of table.

Table 41 (page 2 of 3). Death rates for chronic lower respiratory diseases, according to sex, race, Hispanic origin, and age: United States, selected years 1980–2001

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and age</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>1998</i>	<i>Comparability modified 1998¹</i>	<i>1999¹</i>	<i>2000</i>	<i>2001</i>
American Indian or Alaska Native male ³								
Deaths per 100,000 resident population								
All ages, age adjusted ²	23.0	38.3	35.6	45.7	47.9	41.8	43.7	35.0
All ages, crude	8.4	13.8	12.3	15.3	16.0	14.0	15.3	13.1
35–44 years	*	*	*	*	*	*	*	*
45–54 years	*	*	*	*	*	*	*	*
55–64 years	*	*	36.5	41.4	43.4	34.2	46.4	35.7
65–74 years	*	135.7	132.1	140.0	146.7	165.0	111.3	115.1
75–84 years	*	363.8	307.3	413.5	433.3	393.0	416.6	306.0
85 years and over	*	*	*	789.3	827.0	576.7	770.7	614.8
Asian or Pacific Islander male ³								
All ages, age adjusted ²	21.5	29.8	28.9	26.0	27.2	29.6	28.3	27.0
All ages, crude	8.7	11.3	11.8	11.4	11.9	13.1	12.6	12.7
35–44 years	*	*	*	*	*	*	*	*
45–54 years	*	*	*	*	*	*	4.8	3.6
55–64 years	*	22.1	15.7	16.3	17.1	14.3	8.8	14.4
65–74 years	70.6	91.4	87.9	71.0	74.4	81.9	71.3	65.5
75–84 years	155.7	258.6	240.6	213.1	223.3	270.6	254.3	239.3
85 years and over	472.4	615.2	650.4	617.1	646.6	652.3	670.7	640.4
Hispanic or Latino male ^{3,4}								
All ages, age adjusted ²	---	28.6	31.8	31.1	32.6	33.0	28.8	27.6
All ages, crude	---	8.4	8.9	8.5	8.9	8.9	8.0	7.8
35–44 years	---	*	1.1	1.2	1.3	1.4	0.9	0.7
45–54 years	---	4.1	3.9	3.7	3.9	3.6	3.4	3.2
55–64 years	---	17.2	19.1	17.9	18.8	17.6	18.2	16.1
65–74 years	---	81.0	82.4	77.7	81.4	81.9	72.4	75.5
75–84 years	---	252.4	292.0	272.2	285.2	272.7	250.3	224.0
85 years and over	---	613.9	689.0	725.9	760.6	836.8	671.1	676.1
White, not Hispanic or Latino male ⁴								
All ages, age adjusted ²	---	57.9	56.6	56.8	59.5	61.3	58.5	56.9
All ages, crude	---	48.5	50.2	52.6	55.1	57.3	55.1	54.6
35–44 years	---	1.4	1.4	1.5	1.6	1.5	1.7	1.9
45–54 years	---	9.0	8.4	7.7	8.1	8.5	8.9	9.1
55–64 years	---	61.3	54.6	51.4	53.9	55.6	50.8	50.5
65–74 years	---	213.4	204.3	212.4	222.6	224.9	208.8	206.1
75–84 years	---	523.7	501.7	497.4	521.2	534.9	513.6	500.9
85 years and over	---	860.6	922.6	935.4	980.1	1,033.5	1,008.6	951.5
White female ³								
All ages, age adjusted ²	15.5	27.8	33.3	36.1	37.8	39.7	39.5	39.8
All ages, crude	16.4	32.8	40.8	45.1	47.3	49.8	49.7	50.3
35–44 years	1.3	1.2	1.7	1.6	1.7	1.8	1.8	1.9
45–54 years	7.6	8.3	8.4	7.6	8.0	8.1	7.9	8.0
55–64 years	28.7	41.9	44.0	42.3	44.3	45.6	43.2	44.1
65–74 years	71.0	118.8	139.0	151.4	158.6	160.3	159.6	160.4
75–84 years	104.0	226.3	279.5	308.3	323.0	341.5	339.1	338.3
85 years and over	144.2	298.4	395.5	462.7	484.8	529.7	544.8	557.9
Black or African American female ³								
All ages, age adjusted ²	9.1	16.6	20.2	21.9	22.9	23.4	22.7	22.4
All ages, crude	6.8	12.6	15.5	16.9	17.7	18.0	17.6	17.5
35–44 years	3.4	3.8	5.4	5.2	5.4	4.6	4.7	4.9
45–54 years	9.3	14.0	12.8	14.0	14.7	12.6	13.4	11.7
55–64 years	20.8	33.4	34.7	34.0	35.6	34.9	35.3	33.3
65–74 years	32.7	64.7	78.7	85.5	89.6	88.9	82.9	84.3
75–84 years	41.1	96.0	132.7	143.4	150.3	166.4	158.4	151.7
85 years and over	63.2	133.0	185.8	225.6	236.4	254.5	255.0	266.1

See footnotes at end of table.

Table 41 (page 3 of 3). Death rates for chronic lower respiratory diseases, according to sex, race, Hispanic origin, and age: United States, selected years 1980–2001

[Data are based on death certificates]

Sex, race, Hispanic origin, and age	1980	1990	1995	1998	Comparability modified 1998 ¹			
					1999 ¹	2000	2001	
American Indian or Alaska Native female ³								
Deaths per 100,000 resident population								
All ages, age adjusted ²	7.7	16.8	22.8	24.0	25.1	30.4	26.2	27.3
All ages, crude	3.8	8.7	11.5	11.8	12.4	14.7	13.4	14.8
35–44 years	*	*	*	*	*	*	*	*
45–54 years	*	*	*	*	*	*	*	*
55–64 years	*	*	38.8	28.6	30.0	39.6	31.6	37.3
65–74 years	*	56.4	79.5	118.6	124.3	109.1	136.8	114.2
75–84 years	*	116.7	191.3	192.9	202.1	301.1	175.8	217.9
85 years and over	*	*	*	259.1	271.5	322.8	362.2	345.3
Asian or Pacific Islander female ³								
All ages, age adjusted ²	5.8	11.0	12.1	11.3	11.8	12.1	11.7	11.1
All ages, crude	2.6	5.2	6.3	6.2	6.5	7.0	6.8	6.8
35–44 years	*	*	*	*	*	*	*	*
45–54 years	*	*	3.6	*	*	*	*	*
55–64 years	*	15.2	9.6	6.4	6.7	7.7	6.2	7.0
65–74 years	*	26.5	29.2	28.0	29.3	39.9	29.2	30.2
75–84 years	*	80.6	113.2	91.6	96.0	94.1	88.9	79.4
85 years and over	*	232.5	227.8	273.0	286.0	268.0	299.5	288.5
Hispanic or Latino female ^{3,4}								
All ages, age adjusted ²	---	13.4	16.9	15.6	16.3	17.7	16.3	16.5
All ages, crude	---	6.3	7.7	7.0	7.3	8.0	7.2	7.5
35–44 years	---	*	1.4	1.8	1.9	1.8	1.3	1.2
45–54 years	---	4.9	4.6	3.2	3.4	4.2	3.3	4.1
55–64 years	---	14.4	12.9	12.0	12.6	12.0	10.8	12.1
65–74 years	---	36.6	43.1	40.6	42.5	47.5	38.0	40.3
75–84 years	---	101.1	125.0	131.1	137.4	142.9	136.0	132.7
85 years and over	---	269.0	402.6	334.0	350.0	391.0	387.8	384.4
White, not Hispanic or Latino female ⁴								
All ages, age adjusted ²	---	28.5	34.0	37.1	38.9	40.8	40.7	41.1
All ages, crude	---	35.7	44.7	50.4	52.8	55.9	56.2	57.2
35–44 years	---	1.2	1.7	1.6	1.7	1.8	1.9	2.0
45–54 years	---	8.5	8.5	7.9	8.3	8.5	8.3	8.3
55–64 years	---	43.7	46.2	44.6	46.7	48.3	45.8	46.8
65–74 years	---	122.8	143.0	157.9	165.4	167.4	167.6	168.8
75–84 years	---	231.9	284.5	314.6	329.6	348.8	347.2	347.3
85 years and over	---	302.1	393.7	465.3	487.5	532.8	548.7	562.7

* Rates based on fewer than 20 deaths are considered unreliable and are not shown.

--- Data not available.

¹Starting with 1999 data, cause of death is coded according to ICD-10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

²Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment.

³The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. Death rates for the American Indian or Alaska Native and Asian or Pacific Islander populations are known to be underestimated. See Appendix II, Race, for a discussion of sources of bias in death rates by race and Hispanic origin.

⁴Prior to 1997, excludes data from States lacking an Hispanic-origin item on the death certificate. See Appendix II, Hispanic origin.

NOTES: Population estimates used to compute rates for 1991–2000 differ from those used previously. Starting with *Health, United States, 2003*, rates for 1991–99 were revised using intercensal population estimates based on Census 2000. Rates for 2000 were revised based on Census 2000 counts. Rates for 2001 were computed using 2000-based postcensal estimates. See Appendix I, Population Census and Population Estimates. Underlying cause of death code numbers are based on the applicable revision of the *International Classification of Diseases (ICD)* for data years shown. For the period 1980–98, causes were coded using ICD-9 codes that are most nearly comparable with the 113 cause list for ICD-10. See Appendix II, tables IV and V. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. Data for additional years are available. See Appendix III.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System; numerator data from annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates for 1985–96 prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census; additional mortality tables are available at www.cdc.gov/nchs/data/wh/statab/unpubd/mortabs.htm; Arias E, Anderson RN, Kung HC, Murphy SL, Kochanek KD. Deaths: Final data for 2001. National vital statistics reports. Vol 52 no 3. Hyattsville, Maryland: National Center for Health Statistics. 2003.