

Table XV-1  
LUNG AND BRONCHUS CANCER (Invasive)

TRENDS IN SEER INCIDENCE<sup>a</sup> AND U.S. MORTALITY<sup>b</sup> USING THE JOINPOINT REGRESSION PROGRAM, 1975-2000  
WITH UP TO THREE JOINPOINTS BY RACE AND SEX

		<u>Joinpoint Segment 1</u>		<u>Joinpoint Segment 2</u>		<u>Joinpoint Segment 3</u>		<u>Joinpoint Segment 4</u>	
		Year	APC	Year	APC	Year	APC	Year	APC
<u>SEER Cancer Incidence<sup>a</sup></u>									
All Races	Male and Female	1975-1982	2.5 <sup>c</sup>	1982-1991	1.0 <sup>c</sup>	1991-2000	-0.9 <sup>c</sup>		
All Races	Male	1975-1982	1.5 <sup>c</sup>	1982-1992	-0.5 <sup>c</sup>	1992-2000	-2.2 <sup>c</sup>		
All Races	Female	1975-1988	4.6 <sup>c</sup>	1988-1998	1.3 <sup>c</sup>	1998-2000	-2.8		
White	Male and Female	1975-1988	1.9 <sup>c</sup>	1988-1998	-0.3	1998-2000	-3.2		
White	Male	1975-1981	1.5 <sup>c</sup>	1981-1991	-0.3	1991-2000	-2.1 <sup>c</sup>		
White	Female	1975-1988	4.8 <sup>c</sup>	1988-1998	1.4 <sup>c</sup>	1998-2000	-2.9		
Black	Male and Female	1975-1984	3.5 <sup>c</sup>	1984-2000	-0.6 <sup>c</sup>				
Black	Male	1975-1984	3.1 <sup>c</sup>	1984-2000	-1.6 <sup>c</sup>				
Black	Female	1975-1990	4.3 <sup>c</sup>	1990-2000	0.4				
<u>SEER Delay-Adjusted Incidence<sup>a</sup></u>									
All Races	Male and Female	1975-1982	2.5 <sup>c</sup>	1982-1991	1.0 <sup>c</sup>	1991-2000	-0.7 <sup>c</sup>		
All Races	Male	1975-1982	1.4 <sup>c</sup>	1982-1991	-0.4	1991-2000	-1.8 <sup>c</sup>		
All Races	Female	1975-1982	5.6 <sup>c</sup>	1982-1991	3.4 <sup>c</sup>	1991-2000	0.7 <sup>c</sup>		
White	Male	1975-1981	1.5 <sup>c</sup>	1981-1990	-0.2	1990-2000	-1.8 <sup>c</sup>		
White	Female	1975-1982	5.6 <sup>c</sup>	1982-1988	4.2 <sup>c</sup>	1988-1998	1.6 <sup>c</sup>	1998-2000	-1.6
Black	Male	1975-1984	3.0 <sup>c</sup>	1984-2000	-1.5 <sup>c</sup>				
Black	Female	1975-1990	4.2 <sup>c</sup>	1990-2000	0.6				
<u>U.S. Cancer Mortality<sup>b</sup></u>									
All Races	Male and Female	1975-1982	2.7 <sup>c</sup>	1982-1991	1.6 <sup>c</sup>	1991-2000	-0.7 <sup>c</sup>		
All Races	Male	1975-1982	1.8 <sup>c</sup>	1982-1991	0.4 <sup>c</sup>	1991-2000	-1.8 <sup>c</sup>		
All Races	Female	1975-1983	5.9 <sup>c</sup>	1983-1992	3.8 <sup>c</sup>	1992-2000	0.6 <sup>c</sup>		
White	Male and Female	1975-1982	2.6 <sup>c</sup>	1982-1991	1.7 <sup>c</sup>	1991-2000	-0.6 <sup>c</sup>		
White	Male	1975-1982	1.7 <sup>c</sup>	1982-1991	0.4 <sup>c</sup>	1991-2000	-1.7 <sup>c</sup>		
White	Female	1975-1983	5.9 <sup>c</sup>	1983-1992	3.8 <sup>c</sup>	1992-2000	0.6 <sup>c</sup>		
Black	Male and Female	1975-1982	3.3 <sup>c</sup>	1982-1991	1.7 <sup>c</sup>	1991-2000	-1.3 <sup>c</sup>		
Black	Male	1975-1981	3.1 <sup>c</sup>	1981-1989	1.6 <sup>c</sup>	1989-1993	-0.7	1993-2000	-2.5 <sup>c</sup>
Black	Female	1975-1981	6.7 <sup>c</sup>	1981-1991	4.0 <sup>c</sup>	1991-2000	0.8 <sup>c</sup>		

The APC is the Annual Percent Change based on rates age-adjusted to the 2000 U.S. standard population by 5-year age groups using the Joinpoint Regression Program.

<sup>a</sup> Trends are from the SEER 9 areas.

<sup>b</sup> Trends are from the NCHS public use data file.

<sup>c</sup> The APC is significantly different from zero (p<.05).

Table XV-2  
 SMALL CELL LUNG AND BRONCHUS CANCER (Invasive) AND NON-SMALL CELL LUNG AND BRONCHUS CANCER (Invasive)

TRENDS IN SEER INCIDENCE<sup>a</sup> USING THE JOINPOINT REGRESSION PROGRAM, 1975-2000  
 WITH UP TO THREE JOINPOINTS BY RACE AND SEX

		<u>Joinpoint Segment 1</u>		<u>Joinpoint Segment 2</u>		<u>Joinpoint Segment 3</u>		<u>Joinpoint Segment 4</u>	
		Year	APC	Year	APC	Year	APC	Year	APC
<u>SEER Cancer Incidence for Small Cell Lung and Bronchus<sup>a</sup></u>									
All Races	Male and Female	1975-1982	6.2 <sup>c</sup>	1982-1989	1.2	1989-2000	-2.4 <sup>c</sup>		
All Races	Male	1975-1980	6.4 <sup>c</sup>	1980-1988	0.5	1988-2000	-3.5 <sup>c</sup>		
All Races	Female	1975-1982	9.6 <sup>c</sup>	1982-1991	3.0 <sup>c</sup>	1991-2000	-1.7 <sup>c</sup>		
White	Male and Female	1975-1982	6.3 <sup>c</sup>	1982-1989	1.4 <sup>c</sup>	1989-2000	-2.2 <sup>c</sup>		
White	Male	1975-1980	6.2 <sup>c</sup>	1980-1988	0.6	1988-2000	-3.4 <sup>c</sup>		
White	Female	1975-1982	9.8 <sup>c</sup>	1982-1989	3.9 <sup>c</sup>	1989-2000	-0.9 <sup>c</sup>		
Black	Male and Female	1975-1986	4.6 <sup>c</sup>	1986-2000	-2.1 <sup>c</sup>				
Black	Male	1975-1985	4.8 <sup>c</sup>	1985-2000	-3.2 <sup>c</sup>				
Black	Female	1975-2000	2.1 <sup>c</sup>						
<u>SEER Cancer Incidence for Non-Small Cell Lung and Bronchus<sup>a</sup></u>									
All Races	Male and Female	1975-1988	1.5 <sup>c</sup>	1988-1998	0.0	1998-2000	-3.2		
All Races	Male	1975-1981	1.1 <sup>c</sup>	1981-1992	-0.3	1992-2000	-1.9 <sup>c</sup>		
All Races	Female	1975-1988	4.3 <sup>c</sup>	1988-1998	1.7 <sup>c</sup>	1998-2000	-2.6		
White	Male and Female	1975-1988	1.6 <sup>c</sup>	1988-1998	0.1	1998-2000	-3.3		
White	Male	1975-1990	0.2	1990-2000	-1.8 <sup>c</sup>				
White	Female	1975-1988	4.4 <sup>c</sup>	1988-1998	1.9 <sup>c</sup>	1998-2000	-2.7		
Black	Male and Female	1975-1984	3.2 <sup>c</sup>	1984-2000	-0.5 <sup>c</sup>				
Black	Male	1975-1984	2.8 <sup>c</sup>	1984-2000	-1.4 <sup>c</sup>				
Black	Female	1975-1990	4.2 <sup>c</sup>	1990-2000	0.6				

The APC is the Annual Percent Change based on rates age-adjusted to the 2000 U.S. standard population by 5-year age groups using the Joinpoint Regression Program.

<sup>a</sup> Trends are from the SEER 9 areas.

<sup>b</sup> Trends are from the NCHS public use data file.

<sup>c</sup> The APC is significantly different from zero (p<.05).

Table XV-3  
LUNG AND BRONCHUS CANCER (Invasive)

SEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES<sup>a</sup>, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
<u>YEAR OF DIAGNOSIS:</u>									
1975	52.3	89.5	24.5	51.9	89.1	24.9	64.7	115.1	24.7
1976	55.4	93.8	27.3	54.6	92.7	27.3	72.3	131.0	28.6
1977	56.7	95.5	28.3	55.9	94.7	28.1	73.5	124.8	33.9
1978	57.9	96.7	29.7	57.3	95.9	29.9	74.5	130.5	31.7
1979	58.6	95.7	31.6	58.0	95.1	31.6	74.4	127.5	34.0
1980	60.6	99.9	32.2	59.4	97.7	32.4	86.6	151.5	38.3
1981	62.0	99.4	35.1	61.6	98.5	35.5	82.2	143.0	37.2
1982	63.3	100.7	36.7	63.1	99.7	37.7	80.4	141.1	35.7
1983	63.4	99.5	37.8	63.0	97.6	39.0	86.6	151.3	39.5
1984	65.5	102.1	39.5	64.4	100.0	39.6	93.1	159.3	44.8
1985	64.7	98.7	40.2	64.0	97.0	40.9	89.7	150.0	46.0
1986	65.8	99.1	42.3	65.2	97.5	42.9	92.9	156.0	48.8
1987	68.0	101.6	44.2	68.2	100.8	45.5	84.8	143.7	43.2
1988	68.1	98.9	46.3	68.3	98.0	47.8	88.3	145.4	48.0
1989	67.7	98.1	46.2	67.7	97.2	47.3	89.2	142.7	51.6
1990	68.2	97.2	47.8	68.3	96.4	48.9	86.9	137.6	52.1
1991	69.4	97.6	49.6	69.1	96.2	50.6	93.3	145.2	57.0
1992	69.6	97.5	49.9	69.0	95.2	51.0	94.2	149.7	55.8
1993	67.9	94.1	49.2	67.9	92.7	50.8	86.2	135.7	52.0
1994	67.3	91.1	50.6	67.4	90.3	51.7	87.3	131.7	56.4
1995	66.9	90.0	50.3	67.1	88.0	52.3	86.2	139.5	50.2
1996	66.4	87.9	51.1	66.7	86.6	52.9	84.0	127.4	55.2
1997	66.6	86.3	52.5	67.2	84.9	54.9	82.0	129.3	50.3
1998	67.3	87.6	52.8	67.8	86.3	54.8	86.7	129.5	57.9
1999	65.0	83.5	51.8	65.4	82.1	53.7	83.2	119.9	58.2
2000	62.3	79.8	49.8	62.6	78.1	51.6	78.5	112.8	55.5
<u>AGE-ADJUSTED RATES, 1996-2000</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	65.5	85.0	51.6	65.9	83.5	53.6	82.9	123.6	55.4
Under 65	24.0	27.9	20.3	23.5	26.3	20.9	37.0	50.7	25.6
65 and over	352.3	479.3	267.6	358.7	479.0	279.3	399.6	627.4	261.5
All ages (world std.) <sup>b</sup>	42.9	53.8	34.4	43.1	52.5	35.8	56.4	81.5	38.2
<u>AGE-SPECIFIC RATES, 1996-2000</u>									
<u>AGE AT DIAGNOSIS:</u>									
<1	-	-	-	-	-	-	-	-	-
1-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19	-	-	-	-	-	-	-	-	-
20-24	0.3	-	-	-	-	-	-	-	-
25-29	0.5	-	-	0.4	-	-	-	-	-
30-34	1.4	1.4	1.4	1.3	1.3	1.3	2.1	-	-
35-39	4.7	4.5	4.8	4.3	3.9	4.7	8.7	9.9	7.6
40-44	12.0	13.2	10.8	10.6	11.1	10.0	24.5	31.0	18.8
45-49	26.8	30.2	23.6	25.1	26.8	23.4	48.8	65.9	34.2
50-54	58.5	65.5	51.8	56.4	60.2	52.7	99.5	134.6	69.5
55-59	119.8	138.8	101.7	117.8	130.6	105.4	186.2	259.3	124.7
60-64	207.1	252.1	166.0	209.9	247.0	175.2	274.0	385.0	185.1
65-69	304.2	375.7	243.3	312.8	375.5	258.1	357.5	506.0	245.4
70-74	386.9	501.9	297.2	394.5	498.0	312.5	465.9	698.7	308.9
75-79	403.0	547.1	302.2	410.2	546.2	315.3	449.1	712.5	283.6
80-84	382.7	549.9	283.2	389.4	554.8	291.7	396.0	683.7	248.7
85+	264.2	462.6	182.5	261.7	464.1	181.1	275.1	537.1	175.9

<sup>a</sup> SEER 9 areas. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups, unless noted.

<sup>b</sup> SEER 9 areas. Rates are per 100,000 and are age-adjusted to the world standard population.

- Statistic not shown. Rate based on less than 25 cases for the time interval.

Table XV-4  
SMALL CELL LUNG AND BRONCHUS CANCER (Invasive)

SEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES<sup>a</sup>, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
YEAR OF DIAGNOSIS:									
1975	6.6	10.3	3.8	6.9	10.7	4.0	5.9	8.9	3.5
1976	7.1	11.4	3.8	7.1	11.5	3.9	8.2	12.8	4.8
1977	7.7	12.4	4.2	7.8	12.8	4.2	8.1	11.0	5.8
1978	8.6	13.4	5.0	8.9	13.7	5.3	7.8	13.9	-
1979	8.7	13.1	5.4	9.0	13.6	5.6	7.6	11.8	4.5
1980	9.1	14.2	5.2	9.3	14.4	5.5	10.0	17.5	4.4
1981	9.7	14.5	6.1	10.0	14.8	6.5	9.2	15.9	4.2
1982	10.4	14.9	7.1	10.7	15.3	7.5	9.6	15.9	4.9
1983	10.4	14.9	7.1	10.7	15.0	7.6	9.1	15.1	4.9
1984	10.7	15.2	7.4	11.0	15.6	7.8	10.4	15.0	6.9
1985	10.4	15.0	7.1	10.8	15.3	7.5	11.1	17.8	6.3
1986	11.2	15.5	8.0	11.5	16.0	8.3	12.3	17.7	8.4
1987	10.6	14.1	8.2	11.2	14.6	8.8	9.5	14.5	6.0
1988	11.4	15.3	8.5	11.9	15.6	9.2	10.5	17.9	5.3
1989	11.2	14.8	8.7	11.7	15.2	9.2	12.1	17.5	8.5
1990	10.7	13.8	8.4	11.3	14.5	9.1	9.4	13.7	6.2
1991	11.3	14.0	9.4	11.7	14.3	9.9	12.4	16.0	10.0
1992	10.5	13.4	8.4	11.0	13.8	9.0	10.2	13.4	8.0
1993	10.0	12.3	8.4	10.5	12.6	9.0	9.4	13.2	6.8
1994	9.8	11.7	8.4	10.2	11.9	9.1	9.9	13.6	7.4
1995	9.8	12.2	8.1	10.3	12.6	8.7	9.4	13.6	6.6
1996	9.7	12.0	7.9	10.2	12.4	8.6	8.6	11.7	6.7
1997	9.5	10.9	8.6	10.1	11.1	9.5	7.8	10.7	6.1
1998	9.2	10.7	8.2	9.8	11.2	8.8	9.5	12.1	7.6
1999	8.7	9.9	7.9	9.2	10.1	8.7	8.1	10.9	6.0
2000	8.6	10.2	7.4	9.1	10.6	8.0	9.4	11.5	7.9
<u>AGE-ADJUSTED RATES, 1996-2000</u>									
AGE AT DIAGNOSIS:									
All ages	9.1	10.7	8.0	9.7	11.1	8.7	8.7	11.4	6.9
Under 65	3.8	4.1	3.5	4.0	4.2	3.8	4.0	5.0	3.1
65 and over	46.2	56.5	39.2	48.8	58.4	42.4	41.4	55.5	32.9
All ages (world std.) <sup>b</sup>	6.3	7.2	5.7	6.7	7.4	6.2	6.2	8.0	4.9
<u>AGE-SPECIFIC RATES, 1996-2000</u>									
AGE AT DIAGNOSIS:									
<1	-	-	-	-	-	-	-	-	-
1-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19	-	-	-	-	-	-	-	-	-
20-24	-	-	-	-	-	-	-	-	-
25-29	-	-	-	-	-	-	-	-	-
30-34	-	-	-	-	-	-	-	-	-
35-39	0.4	-	0.5	0.4	-	-	-	-	-
40-44	1.4	1.4	1.3	1.5	1.5	1.5	-	-	-
45-49	3.7	3.9	3.5	3.9	4.0	3.8	3.4	-	-
50-54	9.1	9.8	8.4	9.6	10.1	9.1	10.8	13.1	8.7
55-59	20.4	22.1	18.8	21.8	22.9	20.7	20.4	26.2	15.4
60-64	33.9	37.4	30.6	35.9	38.0	33.9	35.8	48.1	26.1
65-69	48.8	53.6	44.6	52.1	55.5	49.2	45.5	53.9	39.1
70-74	53.8	62.7	46.9	56.9	64.1	51.2	51.6	70.2	39.1
75-79	53.5	68.1	43.2	56.8	72.2	46.0	43.1	54.1	36.2
80-84	41.6	56.0	33.0	43.2	57.2	34.9	31.6	-	-
85+	17.3	30.8	11.8	17.3	30.6	12.0	-	-	-

<sup>a</sup> SEER 9 areas. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups, unless noted.

<sup>b</sup> SEER 9 areas. Rates are per 100,000 and are age-adjusted to the world standard population.

- Statistic not shown. Rate based on less than 25 cases for the time interval.

Table XV-5  
NON-SMALL CELL LUNG AND BRONCHUS CANCER (Invasive)

SEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES<sup>a</sup>, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
<u>YEAR OF DIAGNOSIS:</u>									
1975	45.6	79.2	20.8	45.1	78.4	20.9	58.8	106.1	21.2
1976	48.4	82.4	23.5	47.5	81.2	23.4	64.1	118.2	23.9
1977	49.0	83.1	24.1	48.0	81.9	23.9	65.5	113.8	28.1
1978	49.2	83.3	24.6	48.4	82.2	24.6	66.7	116.6	28.6
1979	49.9	82.7	26.2	49.0	81.5	26.0	66.7	115.7	29.5
1980	51.5	85.7	27.0	50.1	83.3	26.8	76.7	133.9	33.9
1981	52.3	84.9	29.0	51.6	83.6	29.1	73.0	127.1	33.0
1982	53.0	85.8	29.6	52.4	84.4	30.2	70.7	125.1	30.8
1983	53.1	84.6	30.8	52.3	82.6	31.4	77.5	136.3	34.6
1984	54.8	87.0	32.1	53.3	84.3	31.9	82.7	144.3	38.0
1985	54.2	83.8	33.1	53.2	81.7	33.4	78.6	132.2	39.8
1986	54.6	83.6	34.3	53.7	81.5	34.7	80.6	138.3	40.4
1987	57.3	87.5	36.0	57.0	86.2	36.7	75.3	129.2	37.2
1988	56.8	83.6	37.8	56.4	82.4	38.6	77.8	127.6	42.7
1989	56.5	83.3	37.5	56.0	82.0	38.1	77.1	125.2	43.1
1990	57.5	83.4	39.4	57.1	82.0	39.9	77.5	123.9	45.9
1991	58.1	83.6	40.2	57.4	81.9	40.8	80.9	129.2	47.0
1992	59.1	84.1	41.4	58.1	81.3	42.1	84.0	136.3	47.8
1993	57.8	81.8	40.8	57.4	80.0	41.8	76.8	122.5	45.2
1994	57.5	79.5	42.2	57.2	78.4	42.6	77.3	118.1	49.0
1995	57.1	77.8	42.2	56.7	75.4	43.6	76.8	125.9	43.6
1996	56.7	75.9	43.2	56.5	74.2	44.4	75.4	115.7	48.5
1997	57.1	75.5	43.9	57.1	73.7	45.4	74.2	118.6	44.2
1998	58.0	76.9	44.6	58.0	75.1	46.0	77.3	117.4	50.3
1999	56.3	73.6	43.9	56.2	72.0	45.0	75.1	109.0	52.1
2000	53.8	69.6	42.3	53.6	67.6	43.6	69.1	101.3	47.6
<u>AGE-ADJUSTED RATES, 1996-2000</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	56.4	74.2	43.6	56.2	72.5	44.9	74.2	112.2	48.6
Under 65	20.2	23.8	16.9	19.5	22.1	17.1	33.1	45.7	22.5
65 and over	306.1	422.8	228.4	309.9	420.6	236.9	358.2	572.0	228.6
All ages (world std.) <sup>b</sup>	36.6	46.6	28.8	36.4	45.1	29.6	50.2	73.6	33.3
<u>AGE-SPECIFIC RATES, 1996-2000</u>									
<u>AGE AT DIAGNOSIS:</u>									
<1	-	-	-	-	-	-	-	-	-
1-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19	-	-	-	-	-	-	-	-	-
20-24	0.3	-	-	-	-	-	-	-	-
25-29	0.5	-	-	0.4	-	-	-	-	-
30-34	1.3	1.3	1.3	1.2	1.2	1.2	2.1	-	-
35-39	4.2	4.1	4.3	3.9	3.6	4.2	7.9	9.0	6.9
40-44	10.6	11.8	9.4	9.1	9.6	8.6	23.4	30.1	17.6
45-49	23.2	26.3	20.1	21.2	22.8	19.6	45.4	62.4	30.8
50-54	49.4	55.7	43.4	46.8	50.0	43.6	88.7	121.5	60.8
55-59	99.4	116.6	82.9	96.0	107.6	84.7	165.8	233.1	109.3
60-64	173.2	214.7	135.4	174.0	209.0	141.3	238.1	337.0	159.1
65-69	255.5	322.2	198.7	260.7	320.0	208.9	312.0	452.1	206.3
70-74	333.1	439.2	250.3	337.6	433.9	261.3	414.3	628.4	269.9
75-79	349.5	478.9	259.0	353.5	474.1	269.3	406.0	658.4	247.4
80-84	341.1	493.9	250.2	346.2	497.7	256.7	364.4	632.7	227.2
85+	246.9	431.7	170.7	244.4	433.5	169.0	255.2	500.8	162.2

<sup>a</sup> SEER 9 areas. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups, unless noted.

<sup>b</sup> SEER 9 areas. Rates are per 100,000 and are age-adjusted to the world standard population.

- Statistic not shown. Rate based on less than 25 cases for the time interval.

Table XV-6  
LUNG AND BRONCHUS CANCER (Invasive)

U.S. DEATH RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES<sup>a</sup>, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
<u>YEAR OF DEATH:</u>									
1975	42.6	76.4	17.6	42.1	75.5	17.7	49.3	91.0	17.3
1976	44.2	78.5	19.0	43.7	77.6	19.1	51.1	94.0	18.5
1977	45.5	80.4	20.0	44.8	79.1	20.1	54.6	100.8	19.9
1978	46.9	82.1	21.4	46.3	80.8	21.6	55.3	101.6	20.7
1979	47.7	82.9	22.3	47.1	81.6	22.4	56.4	102.9	22.2
1980	49.4	84.7	24.1	48.8	83.3	24.2	59.2	106.7	24.6
1981	50.0	85.2	24.9	49.3	83.5	25.1	60.6	109.7	25.1
1982	51.4	86.8	26.5	50.8	85.2	26.7	62.3	112.5	26.3
1983	52.4	87.0	28.1	51.7	85.4	28.3	63.7	112.8	28.7
1984	53.4	88.2	28.9	52.6	86.2	29.3	65.1	118.0	28.0
1985	54.3	88.5	30.4	53.7	86.7	30.8	65.8	117.5	29.6
1986	55.0	89.0	31.4	54.4	87.0	31.8	67.0	119.2	31.0
1987	56.2	90.0	32.7	55.6	88.1	33.0	68.6	121.8	32.5
1988	57.0	89.9	34.1	56.4	87.9	34.6	69.2	122.2	33.5
1989	57.9	89.8	35.8	57.2	87.6	36.3	71.0	124.7	34.9
1990	58.9	90.6	36.8	58.2	88.4	37.3	72.1	125.2	36.5
1991	59.0	89.9	37.6	58.4	87.8	38.1	71.6	123.6	37.2
1992	58.9	88.0	38.7	58.3	86.0	39.2	71.4	121.1	38.6
1993	59.1	87.6	39.3	58.7	85.5	40.0	71.1	122.0	37.7
1994	58.5	85.7	39.6	58.2	83.8	40.3	70.2	118.6	38.6
1995	58.4	84.4	40.3	58.1	82.6	41.0	69.3	116.1	38.8
1996	57.9	82.8	40.4	57.7	81.2	41.2	68.3	113.2	39.1
1997	57.5	81.3	40.8	57.3	79.8	41.5	67.9	110.2	40.5
1998	57.1	79.9	41.0	56.9	78.5	41.7	66.9	107.4	40.7
1999	55.4	77.0	40.2	55.3	75.7	40.9	65.0	103.6	40.0
2000	56.1	76.9	41.2	56.2	75.7	42.2	64.2	101.6	39.9
<u>AGE-ADJUSTED RATES, 1996-2000</u>									
<u>AGE AT DEATH:</u>									
All ages	56.8	79.5	40.7	56.7	78.1	41.5	66.4	107.0	40.0
Under 65	19.2	24.1	14.6	18.8	23.1	14.7	26.8	39.5	16.5
65 and over	316.6	462.2	221.4	318.5	458.7	226.3	339.9	574.0	202.8
All ages (world std.) <sup>b</sup>	36.1	48.8	26.2	35.9	47.8	26.7	43.9	68.5	26.6
<u>AGE-SPECIFIC RATES, 1996-2000</u>									
<u>AGE AT DEATH:</u>									
<1	-	-	-	-	-	-	-	-	-
1-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19	0.0	-	-	-	-	-	-	-	-
20-24	0.1	0.1	-	0.1	0.1	-	-	-	-
25-29	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-	-
30-34	0.8	0.9	0.8	0.8	0.9	0.8	0.8	0.9	0.8
35-39	3.1	3.3	2.9	2.9	3.0	2.8	5.0	5.9	4.2
40-44	9.3	10.8	7.9	8.7	9.7	7.6	15.7	20.8	11.1
45-49	21.0	25.7	16.4	19.5	23.2	15.9	35.9	50.4	23.4
50-54	47.6	58.6	37.0	46.0	54.8	37.3	73.9	108.4	44.8
55-59	96.5	122.5	72.3	95.1	117.5	73.8	132.1	199.0	77.7
60-64	167.2	216.5	122.8	167.1	211.7	126.2	206.8	312.5	124.0
65-69	251.4	335.8	179.6	253.1	332.2	184.7	285.2	437.2	172.6
70-74	330.3	455.5	233.1	331.4	450.0	237.9	375.5	599.5	227.6
75-79	363.3	522.1	253.6	365.4	517.5	259.2	390.1	659.9	227.6
80-84	367.2	566.3	252.3	371.0	564.7	258.2	354.1	663.1	202.4
85+	292.9	530.8	198.3	294.5	532.0	200.5	284.5	572.0	176.1

<sup>a</sup> NCHS public use data file. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups, unless noted.

<sup>b</sup> NCHS public use data file. Rates are per 100,000 and are age-adjusted to the world standard population.

- Statistic not shown. Rate based on less than 25 cases for the time interval.

Table XV-7  
LUNG AND BRONCHUS CANCER (Invasive)

## SURVIVAL RATES, BY RACE, SEX, DIAGNOSIS YEAR, STAGE AND AGE

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>5-YR RELATIVE SURVIVAL RATES</u>									
YEAR OF DIAGNOSIS:									
1960-1963 <sup>a</sup>	-	-	-	8	7	11	5	5	6
1970-1973 <sup>a</sup>	-	-	-	10	9	14	7	6	10
1974-1976 <sup>b</sup>	12.5	11.2	15.9	12.5	11.1	16.1	11.4	11.0	13.1
1977-1979 <sup>b</sup>	13.4	11.8	17.1	13.6	12.0	17.2	11.2	9.1	17.3
1980-1982 <sup>b</sup>	13.4	12.1	16.1	13.5	12.2	16.2	12.1	10.9	15.6
1983-1985 <sup>b</sup>	13.6	11.9	16.7	13.8	12.1	17.0	11.4	10.3	14.2
1986-1988 <sup>b</sup>	13.3	12.0	15.4	13.5	12.0	15.9	11.9	12.0	11.7
1989-1991 <sup>b</sup>	13.9	12.4	16.2	14.3	12.7	16.6	10.8	9.6	13.1
1992-1999 <sup>b</sup>	14.9 <sup>c</sup>	13.2 <sup>c</sup>	17.0 <sup>c</sup>	15.1 <sup>c</sup>	13.4 <sup>c</sup>	17.2 <sup>c</sup>	12.4 <sup>c</sup>	11.1	14.6
1992-1999 <sup>b</sup>									
ALL STAGES	14.9	13.2	17.0	15.1	13.4	17.2	12.4	11.1	14.6
LOCALIZED	48.7	44.6	53.2	49.2	45.0	53.6	43.3	40.0	47.7
REGIONAL	16.0	14.9	17.4	16.3	15.2	17.7	13.6	12.7	15.0
DISTANT	2.1	1.9	2.3	2.0	1.8	2.2	1.9	1.6	2.4
UNSTAGED	8.3	7.5	9.3	8.3	7.3	9.4	9.3	9.7	8.7
<u>STAGE DISTRIBUTION (%) 1992-1999<sup>b</sup></u>									
ALL STAGES									
Number of cases	100,433	57,918	42,515	83,739	47,289	36,450	10,640	6,741	3,899
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	16	14	17	16	15	18	14	13	16
REGIONAL	36	37	35	35	36	34	37	36	37
DISTANT	38	39	37	38	39	37	40	42	38
UNSTAGED	10	10	11	11	10	11	10	9	10
<u>5-YR RELATIVE SURVIVAL RATES, 1992-1999<sup>b</sup></u>									
AGE AT DIAGNOSIS:									
<45	21.8	18.8	25.7	23.9	20.8	27.6	16.1	12.6	21.7
45-54	18.1	15.9	21.0	18.9	16.5	21.9	13.8	13.0	15.3
55-64	16.9	14.6	20.1	17.4	15.1	20.4	13.4	11.4	17.1
65-74	14.9	13.3	17.0	15.1	13.4	17.4	11.7	10.8	13.1
75+	9.5	8.5	10.6	9.7	8.5	10.8	8.5	8.0	9.1
Under 65	17.6	15.3	20.9	18.3	15.9	21.4	13.9	12.0	17.2
65 and over	13.0	11.7	14.5	13.1	11.7	14.7	10.7	10.0	11.8

- <sup>a</sup> Rates are based on End Results data from a series of hospital registries and one population-based registry.
- <sup>b</sup> Rates are from the SEER 9 areas. They are based on data from population-based registries in Connecticut, New Mexico, Utah, Iowa, Hawaii, Atlanta, Detroit, Seattle-Puget Sound and San Francisco-Oakland. Rates are based on follow-up of patients into 2000.
- <sup>c</sup> The difference in rates between 1974-1976 and 1992-1999 is statistically significant (p<.05).
- <sup>d</sup> The standard error of the survival rate is between 5 and 10 percentage points.
- <sup>e</sup> The standard error of the survival rate is greater than 10 percentage points.
- Statistic could not be calculated.

Table XV-8  
SMALL CELL LUNG AND BRONCHUS CANCER (Invasive)

## SURVIVAL RATES, BY RACE, SEX, DIAGNOSIS YEAR, STAGE AND AGE

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>5-YR RELATIVE SURVIVAL RATES</u>									
YEAR OF DIAGNOSIS:									
1974-1976 <sup>a</sup>	3.6	3.0	5.0	3.6	2.9	5.0	3.4	3.6	3.1
1977-1979 <sup>a</sup>	4.5	3.3	6.7	4.5	3.3	6.7	3.8	3.4	4.8
1980-1982 <sup>a</sup>	4.7	3.8	6.2	4.8	4.0	6.2	4.0	3.0	6.4
1983-1985 <sup>a</sup>	4.7	3.5	6.6	4.8	3.6	6.6	4.7	2.5	8.6
1986-1988 <sup>a</sup>	5.0	3.9	6.5	5.2	4.0	6.8	3.9	3.4	4.6
1989-1991 <sup>a</sup>	5.4	4.6	6.5	5.5	4.4	6.9	3.7	4.3	2.9
1992-1999 <sup>a</sup>	6.3 <sup>b</sup>	5.3 <sup>b</sup>	7.4 <sup>b</sup>	6.4 <sup>b</sup>	5.4 <sup>b</sup>	7.5 <sup>b</sup>	5.0 <sup>b</sup>	3.7 <sup>b</sup>	6.4
1992-1999 <sup>a</sup>									
ALL STAGES	6.3	5.3	7.4	6.4	5.4	7.5	5.0	3.7	6.4
LOCALIZED	19.9	17.4	22.8	21.1	18.9	23.6	9.4	4.1	14.6 <sup>c</sup>
REGIONAL	10.8	9.5	12.2	11.0	9.6	12.3	9.1	8.2	9.7
DISTANT	2.0	1.6	2.3	1.9	1.6	2.1	1.6	0.5	3.0
UNSTAGED	7.1	5.8	8.4	7.3	5.8	8.8	7.8	8.3 <sup>c</sup>	6.0 <sup>c</sup>
<u>STAGE DISTRIBUTION (%) 1992-1999<sup>a</sup></u>									
ALL STAGES									
Number of cases	15,356	8,170	7,186	13,467	7,036	6,431	1,182	666	516
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	6	6	7	6	6	7	7	7	7
REGIONAL	32	31	34	32	30	34	35	34	35
DISTANT	54	56	51	54	57	51	52	54	50
UNSTAGED	8	7	8	8	7	8	6	5	8
<u>5-YR RELATIVE SURVIVAL RATES, 1992-1999<sup>a</sup></u>									
AGE AT DIAGNOSIS:									
<45	10.2	8.0	12.8	11.4	7.5	16.0	3.8	7.9 <sup>c</sup>	-
45-54	9.4	7.8	11.5	9.6	8.3	11.3	7.6	4.5	11.8
55-64	7.7	6.1	9.7	8.0	6.4	9.8	3.7	2.4	5.3
65-74	5.3	4.3	6.3	5.3	4.1	6.4	4.9	3.7	6.1
75+	3.9	3.9	3.9	3.8	4.0	3.7	5.8	3.9	7.3
Under 65	8.3	6.7	10.4	8.6	7.0	10.5	4.8	3.5	6.5
65 and over	4.8	4.2	5.5	4.8	4.1	5.5	5.2	3.8	6.4

<sup>a</sup> Rates are from the SEER 9 areas. They are based on data from population-based registries in Connecticut, New Mexico, Utah, Iowa, Hawaii, Atlanta, Detroit, Seattle-Puget Sound and San Francisco-Oakland. Rates are based on follow-up of patients into 2000.

<sup>b</sup> The difference in rates between 1974-1976 and 1992-1999 is statistically significant ( $p < .05$ ).

<sup>c</sup> The standard error of the survival rate is between 5 and 10 percentage points.

<sup>d</sup> The standard error of the survival rate is greater than 10 percentage points.

- Statistic could not be calculated.



Table XV-9  
NON-SMALL CELL LUNG AND BRONCHUS CANCER (Invasive)

SURVIVAL RATES, BY RACE, SEX, DIAGNOSIS YEAR, STAGE AND AGE

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>5-YR RELATIVE SURVIVAL RATES</u>									
YEAR OF DIAGNOSIS:									
1974-1976 <sup>a</sup>	13.9	12.4	17.9	14.0	12.4	18.2	12.3	11.7	15.0
1977-1979 <sup>a</sup>	15.0	13.2	19.3	15.4	13.6	19.5	12.1	9.8	19.5
1980-1982 <sup>a</sup>	15.1	13.6	18.4	15.4	13.8	18.7	13.2	11.9	17.0
1983-1985 <sup>a</sup>	15.5	13.5	19.2	15.9	13.8	19.6	12.3	11.2	15.2
1986-1988 <sup>a</sup>	15.1	13.6	17.7	15.4	13.7	18.2	13.1	13.1	13.1
1989-1991 <sup>a</sup>	15.7	13.9	18.6	16.3	14.4	19.1	11.9	10.2	14.9
1992-1999 <sup>a</sup>	16.5 <sup>b</sup>	14.6 <sup>b</sup>	19.0 <sup>b</sup>	16.9 <sup>b</sup>	14.9 <sup>b</sup>	19.4 <sup>b</sup>	13.4	12.0	15.9
1992-1999 <sup>a</sup>									
ALL STAGES	16.5	14.6	19.0	16.9	14.9	19.4	13.4	12.0	15.9
LOCALIZED	50.7	46.5	55.3	51.3	46.9	55.7	45.3	42.0	50.0
REGIONAL	16.8	15.7	18.5	17.2	16.1	18.8	14.1	13.1	15.9
DISTANT	2.1	2.0	2.2	2.0	1.9	2.2	2.0	1.8	2.3
UNSTAGED	8.5	7.7	9.4	8.4	7.5	9.5	9.4	9.8	9.0
<u>STAGE DISTRIBUTION (%) 1992-1999<sup>a</sup></u>									
ALL STAGES									
Number of cases	85,077	49,748	35,329	70,272	40,253	30,019	9,458	6,075	3,383
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	17	16	19	18	16	20	15	14	17
REGIONAL	36	37	35	36	37	35	37	37	37
DISTANT	36	36	34	35	36	34	39	40	36
UNSTAGED	11	11	11	11	11	12	10	10	10
<u>5-YR RELATIVE SURVIVAL RATES, 1992-1999<sup>a</sup></u>									
AGE AT DIAGNOSIS:									
<45	23.2	20.1	27.4	25.7	22.7	29.4	17.0	12.9	23.8
45-54	19.7	17.4	22.9	20.9	18.2	24.2	14.5	13.9	15.7
55-64	18.9	16.3	22.8	19.6	17.0	23.3	14.8	12.6	19.4
65-74	16.8	14.9	19.5	17.2	15.1	20.0	12.7	11.7	14.5
75+	10.4	9.1	11.8	10.6	9.2	12.0	8.7	8.3	9.3
Under 65	19.5	16.9	23.3	20.4	17.8	24.1	15.0	13.0	18.9
65 and over	14.4	12.9	16.3	14.7	13.0	16.7	11.5	10.7	12.7

<sup>a</sup> Rates are from the SEER 9 areas. They are based on data from population-based registries in Connecticut, New Mexico, Utah, Iowa, Hawaii, Atlanta, Detroit, Seattle-Puget Sound and San Francisco-Oakland. Rates are based on follow-up of patients into 2000.

<sup>b</sup> The difference in rates between 1974-1976 and 1992-1999 is statistically significant (p<.05).

<sup>c</sup> The standard error of the survival rate is between 5 and 10 percentage points.

<sup>d</sup> The standard error of the survival rate is greater than 10 percentage points.

- Statistic could not be calculated.

Table XV-10  
 LUNG AND BRONCHUS CANCER (Invasive)  
 INCIDENCE, DEATH, AND SURVIVAL RATES<sup>c</sup>

By Year of Diagnosis/Death

All Races, Males and Females

Year of Diagnosis/Death

	1975- 1979	1980- 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Incidence																		
SEER <sup>a</sup>	56.2	63.0	64.7	65.8	68.0	68.1	67.7	68.2	69.4	69.6	67.9	67.3	66.9	66.4	66.6	67.3	65.0	62.3
Mortality																		
U.S. <sup>b</sup>	45.4	51.4	54.3	55.0	56.2	57.0	57.9	58.9	59.0	58.9	59.1	58.5	58.4	57.9	57.5	57.1	55.4	56.1
SEER <sup>a</sup>	43.8	48.3	50.8	49.7	51.3	52.3	52.9	52.2	54.0	53.0	52.7	52.7	51.9	51.1	50.6	50.8	49.0	49.7
Relative Survival Rates (SEER <sup>a</sup> )																		
1-year	36.8	38.7	39.7	40.3	39.7	40.2	40.3	40.3	41.2	41.1	40.8	40.9	41.5	41.1	41.7	41.1	42.3	
2-year	21.8	22.6	23.0	23.2	22.8	23.3	23.5	23.6	24.0	24.8	24.6	24.6	25.4	25.4	25.3	25.5		
3-year	16.8	17.4	17.7	17.7	17.1	17.7	17.6	18.0	18.8	19.0	18.9	19.1	19.5	19.8	19.7			
4-year	14.5	15.0	15.1	14.8	14.8	15.1	15.3	15.3	16.0	16.2	16.2	16.4	16.9	16.8				
5-year	13.1	13.4	13.7	13.2	13.3	13.4	13.9	13.7	14.1	14.3	14.8	14.9	15.0					
6-year	12.1	12.3	12.7	12.1	12.2	12.2	12.9	12.6	13.2	13.2	13.6	13.7						
7-year	11.4	11.5	11.6	11.4	11.1	11.3	12.0	11.7	12.0	12.1	12.6							
8-year	10.8	10.7	10.9	10.6	10.5	10.5	11.2	11.0	11.2	11.2								
9-year	10.3	10.0	10.3	10.1	9.8	9.9	10.6	10.2	10.6									
11-year	9.7	9.4	9.8	9.4	9.4	9.4	10.1	9.5										
10-year	9.3	9.1	9.3	8.9	9.0	8.8	9.5											
12-year	8.9	8.6	8.9	8.4	8.5	8.2												
13-year	8.5	8.2	8.5	8.0	8.0													
14-year	8.2	7.9	8.2	7.8														
15-year	7.8	7.5	7.7															
16-year	7.6	7.1																
17-year	7.3																	
18-year	7.1																	
19-year	6.8																	
20-year	6.6																	

<sup>a</sup> Rates are from the SEER 9 areas.

<sup>b</sup> Rates are from the NCHS public use data file.

<sup>c</sup> Incidence and death rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups. Survival rates are relative rates expressed as percents.

Table XV-11  
LUNG AND BRONCHUS CANCER (Invasive)  
INCIDENCE, DEATH, AND SURVIVAL RATES<sup>c</sup>

By Year of Diagnosis/Death

All Races, Males

Year of Diagnosis/Death

	1975- 1979	1980- 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
Incidence																			
SEER <sup>a</sup>	94.3	100.4	98.7	99.1	101.6	98.9	98.1	97.2	97.6	97.5	94.1	91.1	90.0	87.9	86.3	87.6	83.5	79.8	
Mortality																			
U.S. <sup>b</sup>	80.1	86.4	88.5	89.0	90.0	89.9	89.8	90.6	89.9	88.0	87.6	85.7	84.4	82.8	81.3	79.9	77.0	76.9	
SEER <sup>a</sup>	75.9	79.0	80.1	77.9	79.0	79.4	79.1	77.5	78.0	76.6	75.3	74.8	71.7	70.0	68.1	68.4	65.0	66.2	
Relative Survival Rates (SEER <sup>a</sup> )																			
1-year	34.8	36.9	37.0	38.3	38.3	38.1	37.9	38.0	38.9	39.0	38.2	38.6	39.3	39.3	39.4	38.5	39.3		
2-year	20.1	20.9	21.1	21.0	21.8	21.8	22.0	21.3	22.0	23.3	22.3	22.1	23.5	23.8	23.6	23.1			
3-year	15.2	15.8	15.7	16.0	16.0	16.4	16.2	16.0	17.1	17.6	16.5	16.8	17.6	18.4	18.3				
4-year	12.9	13.4	13.1	13.1	13.7	13.7	14.0	13.4	14.1	14.8	14.0	14.1	15.2	15.4					
5-year	11.6	12.0	11.8	11.6	12.4	12.0	12.8	11.9	12.6	13.2	12.6	12.8	13.5						
6-year	10.7	11.0	10.8	10.6	11.4	10.8	11.9	10.9	11.7	11.9	11.7	11.6							
7-year	10.1	10.1	9.9	9.9	10.4	9.8	11.2	10.2	10.6	11.0	10.8								
8-year	9.5	9.3	9.3	9.1	9.9	9.1	10.7	9.3	9.8	10.0									
9-year	9.0	8.7	8.7	8.6	9.3	8.6	10.1	8.5	9.2										
11-year	8.5	8.2	8.3	8.1	8.8	8.2	9.7	7.9											
10-year	8.1	7.9	8.0	7.5	8.4	7.7	9.1												
12-year	7.7	7.5	7.5	7.0	8.0	7.1													
13-year	7.3	7.1	7.2	6.7	7.3														
14-year	7.1	6.8	7.0	6.4															
15-year	6.6	6.5	6.6																
16-year	6.4	6.1																	
17-year	6.3																		
18-year	6.0																		
19-year	5.8																		
20-year	5.5																		

<sup>a</sup> Rates are from the SEER 9 areas.

<sup>b</sup> Rates are from the NCHS public use data file.

<sup>c</sup> Incidence and death rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups. Survival rates are relative rates expressed as percents.

Table XV-12  
LUNG AND BRONCHUS CANCER (Invasive)  
INCIDENCE, DEATH, AND SURVIVAL RATES<sup>c</sup>

By Year of Diagnosis/Death

All Races, Females

Year of Diagnosis/Death

	1975- 1979	1980- 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Incidence																		
SEER <sup>a</sup>	28.4	36.3	40.2	42.3	44.2	46.3	46.2	47.8	49.6	49.9	49.2	50.6	50.3	51.1	52.5	52.8	51.8	49.8
Mortality																		
U.S. <sup>b</sup>	20.1	26.6	30.4	31.4	32.7	34.1	35.8	36.8	37.6	38.7	39.3	39.6	40.3	40.4	40.8	41.0	40.2	41.2
SEER <sup>a</sup>	20.5	26.7	30.4	30.0	31.9	33.4	34.6	34.8	37.5	36.6	36.9	37.3	38.3	38.0	38.4	38.5	37.9	38.1
Relative Survival Rates (SEER <sup>a</sup> )																		
1-year	41.9	42.7	44.8	43.9	42.2	43.6	44.3	43.9	44.7	44.2	44.7	44.0	44.6	43.4	44.5	44.5	46.0	
2-year	26.0	26.2	26.8	27.1	24.6	25.7	25.8	27.2	26.9	27.0	28.0	27.9	27.9	27.5	27.4	28.4		
3-year	20.7	20.9	21.5	20.6	19.0	19.6	19.7	21.1	21.3	20.9	22.3	22.2	22.0	21.6	21.6			
4-year	18.2	18.1	19.0	17.8	16.6	17.4	17.2	18.1	18.7	18.2	19.3	19.4	19.2	18.6				
5-year	16.6	16.3	17.1	15.9	14.8	15.6	15.7	16.4	16.4	16.0	17.7	17.4	16.9					
6-year	15.4	15.0	16.0	14.7	13.6	14.3	14.5	15.2	15.1	14.9	16.3	16.2						
7-year	14.5	14.0	14.7	13.8	12.2	13.4	13.2	14.0	14.0	13.7	15.0							
8-year	13.7	13.2	13.8	12.9	11.5	12.6	12.0	13.3	13.2	12.9								
9-year	13.0	12.4	12.9	12.4	10.5	11.9	11.2	12.5	12.4									
11-year	12.3	11.7	12.2	11.5	10.3	11.2	10.6	11.7										
10-year	11.8	11.1	11.5	11.0	9.8	10.4	10.0											
12-year	11.4	10.5	11.1	10.6	9.4	9.7												
13-year	11.1	10.0	10.6	10.0	9.0													
14-year	10.5	9.6	9.9	9.7														
15-year	10.0	9.2	9.5															
16-year	9.8	8.7																
17-year	9.3																	
18-year	9.0																	
19-year	8.6																	
20-year	8.3																	

<sup>a</sup> Rates are from the SEER 9 areas.

<sup>b</sup> Rates are from the NCHS public use data file.

<sup>c</sup> Incidence and death rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups. Survival rates are relative rates expressed as percents.

Table XV-13  
LUNG AND BRONCHUS CANCER (Invasive)

Percent Diagnosed With Cancer In 10, 20 and 30 Years and In Remaining Lifetime,  
 Given Cancer Free At Current Age By Race and Sex

Lifetime Risk (Percent) of Being Diagnosed (12 SEER Areas) With Cancer and  
 Lifetime Risk (Percent) of Dying (Total U.S.) From Cancer

1998-2000

All Races

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.00	7.75	0.00	0.00	0.01	5.79
10	0.00	0.00	0.03	7.89	0.00	0.01	0.03	5.87
20	0.00	0.03	0.21	7.93	0.00	0.03	0.18	5.88
30	0.03	0.21	1.03	8.02	0.03	0.18	0.81	5.90
40	0.19	1.02	3.26	8.13	0.15	0.79	2.39	5.93
50	0.86	3.18	6.24	8.22	0.65	2.28	4.40	5.89
60	2.50	5.80	7.63	7.93	1.71	3.93	5.25	5.49

Lifetime Risk of Being Diagnosed = 7.75%  
 Lifetime Risk of Dying = 7.35%

Lifetime Risk of Being Diagnosed = 5.79%  
 Lifetime Risk of Dying = 4.81%

Whites

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.00	7.75	0.00	0.00	0.01	6.08
10	0.00	0.00	0.03	7.86	0.00	0.01	0.03	6.15
20	0.00	0.03	0.19	7.90	0.00	0.03	0.18	6.16
30	0.02	0.19	0.96	7.98	0.03	0.17	0.83	6.18
40	0.17	0.95	3.20	8.08	0.15	0.81	2.51	6.20
50	0.81	3.13	6.20	8.17	0.67	2.41	4.65	6.16
60	2.49	5.78	7.60	7.89	1.81	4.16	5.51	5.73

Lifetime Risk of Being Diagnosed = 7.75%  
 Lifetime Risk of Dying = 7.41%

Lifetime Risk of Being Diagnosed = 6.08%  
 Lifetime Risk of Dying = 4.99%

Blacks

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.00	8.29	0.00	0.00	0.00	5.37
10	0.00	0.00	0.06	8.59	0.00	0.00	0.05	5.53
20	0.00	0.06	0.45	8.66	0.00	0.05	0.29	5.55
30	0.06	0.46	1.89	8.88	0.04	0.29	1.12	5.59
40	0.42	1.89	4.68	9.11	0.25	1.09	2.76	5.64
50	1.59	4.59	7.78	9.37	0.88	2.62	4.49	5.62
60	3.49	7.20	8.81	9.05	1.90	3.94	4.98	5.17

Lifetime Risk of Being Diagnosed = 8.29%  
 Lifetime Risk of Dying = 7.40%

Lifetime Risk of Being Diagnosed = 5.37%  
 Lifetime Risk of Dying = 3.93%

Table XV-14  
LUNG AND BRONCHUS (Invasive)

AGE-ADJUSTED SEER INCIDENCE AND U.S. DEATH RATES

By Race/Ethnicity and Sex

Incidence<sup>a</sup>

RACE/ETHNICITY	Rate 1996-2000			Trend 1992-2000		
	Rate per 100,000 persons			APC (%)		
	Total	Males	Females	Total	Males	Females
All Races	62.6	80.8	49.6	-1.2 <sup>d</sup>	-2.3 <sup>d</sup>	0.0
White	63.2	79.4	51.9	-1.1 <sup>d</sup>	-2.3 <sup>d</sup>	0.1
White Hispanic <sup>b</sup>	34.2	47.4	25.1	-1.8 <sup>d</sup>	-2.5 <sup>d</sup>	-1.2
White Non-Hispanic <sup>b</sup>	64.9	80.5	53.9	-1.0 <sup>d</sup>	-2.1 <sup>d</sup>	0.2
Black	81.2	120.4	54.8	-1.4 <sup>d</sup>	-2.5 <sup>d</sup>	0.8
Asian/Pacific Islander	43.2	62.1	28.4	-0.7	-0.7	-0.2
Amer Ind/Alaska Nat	33.1	45.6	23.4	-4.9 <sup>d</sup>	-5.4	-4.1 <sup>d</sup>
Hispanic <sup>b</sup>	33.2	46.1	24.4	-1.8 <sup>d</sup>	-2.4 <sup>d</sup>	-1.0

Mortality<sup>c</sup>

RACE/ETHNICITY	Rate 1996-2000			Trend 1992-2000		
	Rate per 100,000 persons			APC (%)		
	Total	Males	Females	Total	Males	Females
All Races	56.8	79.5	40.7	-0.8 <sup>d</sup>	-1.8 <sup>d</sup>	0.7 <sup>d</sup>
White	56.7	78.1	41.5	-0.6 <sup>d</sup>	-1.7 <sup>d</sup>	0.7 <sup>d</sup>
White Hispanic <sup>b</sup>	26.3	41.5	15.4	-0.5 <sup>d</sup>	-0.9 <sup>d</sup>	0.3
White Non-Hispanic <sup>b</sup>	58.8	80.8	43.1	-0.5 <sup>d</sup>	-1.6 <sup>d</sup>	0.9 <sup>d</sup>
Black	66.4	107.0	40.0	-1.3 <sup>d</sup>	-2.4 <sup>d</sup>	0.8 <sup>d</sup>
Asian/Pacific Islander	28.5	40.9	19.1	-1.2 <sup>d</sup>	-1.6 <sup>d</sup>	-0.1
Amer Ind/Alaska Nat	37.2	52.9	26.2	-0.2	-0.6	0.7
Hispanic <sup>b</sup>	25.8	40.7	15.1	-0.4	-0.9 <sup>d</sup>	0.3

The APC is the Annual Percent Change over the time interval.

- Statistic not shown. Rate based on less than 25 cases for the time interval. Trend based on less than 10 cases for at least one year within the time interval.

<sup>a</sup> Incidence data are from the 12 SEER areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, and Alaska Native Registry).

<sup>b</sup> Hispanic and Non-Hispanic are not mutually exclusive from whites, blacks, Asian Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics and Non-Hispanics do not include cases from Detroit, Hawaii and Alaska Native Registry. For mortality, information is included for all states except Connecticut, Oklahoma, New York, and New Hampshire.

<sup>c</sup> Mortality data are analyzed from a public use file provided by the National Center for Health Statistics (NCHS).

<sup>d</sup> The APC is significantly different from zero (p<.05).

Table XV-15  
LUNG AND BRONCHUS CANCER (Invasive)

AGE-ADJUSTED SEER INCIDENCE RATES<sup>a</sup> AND SEER DEATH RATES<sup>b</sup>  
By Registry, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>SEER INCIDENCE RATES<sup>a</sup>, 1996-2000</u>									
REGISTRY									
12 registries	62.6	80.8	49.6	63.2	79.4	51.9	81.2	120.4	54.8
11 registries	62.6	80.7	49.6	63.2	79.4	51.9	81.2	120.4	54.8
9 registries	65.5	85.0	51.6	65.9	83.5	53.6	82.9	123.6	55.4
San Francisco-Oakland	61.0	75.1	50.9	63.0	72.8	56.1	82.1	115.6	59.4
Connecticut	69.3	88.2	56.6	69.6	87.4	57.6	70.6	106.8	47.1
Metropolitan Detroit	81.4	107.4	63.6	79.0	101.5	64.1	92.6	134.9	63.7
Hawaii	53.9	72.3	38.3	66.6	78.9	55.3	66.3	-	-
Iowa	67.5	94.8	48.1	67.2	94.5	47.9	98.1	131.9	75.4
New Mexico	46.8	60.9	36.2	48.4	62.4	37.9	53.9	84.4	-
Seattle-Puget Sound	72.4	88.2	61.1	73.8	88.5	63.5	90.0	125.7	59.9
Utah	30.6	41.5	22.1	30.8	41.8	22.2	-	-	-
Metropolitan Atlanta	70.5	97.8	52.6	70.5	91.6	56.7	72.2	122.2	42.6
San Jose-Monterey	53.9	65.9	45.3	56.7	67.8	49.1	71.6	100.3	45.5
Los Angeles	55.5	70.6	44.6	55.4	67.5	46.7	77.4	113.6	53.3
<u>SEER DEATH RATES<sup>b</sup>, 1996-2000</u>									
REGISTRY									
12 registries	48.5	64.7	37.0	49.1	64.0	38.7	64.5	98.1	42.3
11 registries	48.4	64.7	37.0	49.0	64.0	38.6	64.5	98.2	42.2
9 registries	50.2	67.5	38.1	50.7	66.9	39.5	64.4	98.5	42.1
San Francisco-Oakland	47.8	60.9	38.7	49.6	60.1	42.5	67.9	98.6	47.6
Connecticut	51.2	67.8	40.1	51.3	67.2	40.7	55.6	89.9	34.8
Metropolitan Detroit	59.7	81.1	45.4	57.6	76.6	45.1	69.9	102.6	47.9
Hawaii	39.7	54.3	27.4	49.5	61.0	39.0	-	-	-
Iowa	52.2	76.5	35.5	52.0	76.2	35.3	83.3	119.9	57.8
New Mexico	39.8	52.7	30.1	41.4	54.4	31.6	41.2	63.3	-
Seattle-Puget Sound	56.5	71.2	45.8	57.9	72.1	47.8	67.9	97.2	43.2
Utah	25.9	36.7	17.6	25.9	36.7	17.6	-	-	-
Metropolitan Atlanta	54.3	78.8	38.8	54.3	74.2	41.8	56.5	99.0	32.2
San Jose-Monterey	41.1	52.1	33.3	43.4	53.6	36.4	60.5	80.1	42.9
Los Angeles	44.4	58.6	34.2	44.4	56.3	35.9	64.9	98.4	42.6

Note: San Jose-Monterey and Los Angeles are new SEER areas as of 1992 and their data are only used in tables where indicated.

<sup>a</sup> SEER 9 areas. Incidence rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

<sup>b</sup> NCHS public use data file. Death rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

- Statistic could not be calculated or populations are inadequate.

Table XV-16  
LUNG AND BRONCHUS CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH<sup>a</sup> RATES BY STATE, 1996-2000

All Races, Males and Females

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
TOTAL U.S.	56.8	0.06							
High Five States									
Kentucky	77.8 <sup>bc</sup>	0.63	(01)	37.0					
West Virginia	72.6 <sup>bc</sup>	0.83	(02)	27.8					
Mississippi	69.7 <sup>bc</sup>	0.72	(03)	22.7					
Arkansas	69.0 <sup>bc</sup>	0.70	(04)	21.5					
Tennessee	68.9 <sup>bc</sup>	0.50	(05)	21.3					
Low Five States									
North Dakota	44.5 <sup>bc</sup>	1.13	(47)	-21.7					
Colorado	41.8 <sup>bc</sup>	0.51	(48)	-26.4					
New Mexico	39.8 <sup>bc</sup>	0.70	(49)	-29.9					
Hawaii	39.7 <sup>bc</sup>	0.81	(50)	-30.1					
Utah	25.9 <sup>bc</sup>	0.59	(51)	-54.4					
Alabama	63.8 <sup>bc</sup>	0.53	(12)	12.3	Montana	53.0 <sup>d</sup>	1.06	(35)	-6.7
Alaska	59.5	2.08	(21)	4.8	Nebraska	49.8 <sup>bc</sup>	0.75	(39)	-12.3
Arizona	49.3 <sup>bc</sup>	0.45	(41)	-13.2	Nevada	65.4 <sup>bc</sup>	0.90	(08)	15.1
Arkansas	69.0 <sup>bc</sup>	0.70	(04)	21.5	New Hampshire	57.2	0.99	(28)	0.7
California	48.9 <sup>bc</sup>	0.19	(43)	-13.9	New Jersey	54.9 <sup>c</sup>	0.36	(33)	-3.3
Colorado	41.8 <sup>bc</sup>	0.51	(48)	-26.4	New Mexico	39.8 <sup>bc</sup>	0.70	(49)	-29.9
Connecticut	51.2 <sup>bc</sup>	0.53	(37)	-9.9	New York	50.7 <sup>bc</sup>	0.23	(38)	-10.7
Delaware	64.9 <sup>bc</sup>	1.30	(10)	14.3	North Carolina	62.1 <sup>bc</sup>	0.41	(13)	9.3
District of Columbia	58.6	1.46	(22)	3.2	North Dakota	44.5 <sup>bc</sup>	1.13	(47)	-21.7
Florida	57.5	0.24	(27)	1.2	Ohio	62.1 <sup>bc</sup>	0.33	(14)	9.3
Georgia	61.4 <sup>bc</sup>	0.44	(16)	8.1	Oklahoma	65.5 <sup>bc</sup>	0.61	(07)	15.3
Hawaii	39.7 <sup>bc</sup>	0.81	(50)	-30.1	Oregon	58.4	0.59	(23)	2.8
Idaho	45.7 <sup>bc</sup>	0.90	(46)	-19.5	Pennsylvania	56.2	0.28	(30)	-1.1
Illinois	57.6	0.31	(26)	1.4	Rhode Island	61.1 <sup>bc</sup>	1.04	(17)	7.6
Indiana	65.2 <sup>bc</sup>	0.47	(09)	14.8	South Carolina	60.7 <sup>bc</sup>	0.57	(19)	6.9
Iowa	52.2 <sup>bc</sup>	0.57	(36)	-8.1	South Dakota	49.0 <sup>bc</sup>	1.11	(42)	-13.7
Kansas	54.5	0.64	(34)	-4.0	Tennessee	68.9 <sup>bc</sup>	0.50	(05)	21.3
Kentucky	77.8 <sup>bc</sup>	0.63	(01)	37.0	Texas	57.7	0.27	(25)	1.6
Louisiana	68.3 <sup>bc</sup>	0.58	(06)	20.2	Utah	25.9 <sup>bc</sup>	0.59	(51)	-54.4
Maine	62.0 <sup>bc</sup>	0.94	(15)	9.2	Vermont	55.6	1.36	(32)	-2.1
Maryland	60.9 <sup>bc</sup>	0.51	(18)	7.2	Virginia	60.2 <sup>bc</sup>	0.44	(20)	6.0
Massachusetts	55.9	0.41	(31)	-1.6	Washington	56.9	0.47	(29)	0.2
Michigan	58.1 <sup>c</sup>	0.35	(24)	2.3	West Virginia	72.6 <sup>bc</sup>	0.83	(02)	27.8
Minnesota	47.1 <sup>bc</sup>	0.45	(45)	-17.1	Wisconsin	49.5 <sup>bc</sup>	0.43	(40)	-12.9
Mississippi	69.7 <sup>bc</sup>	0.72	(03)	22.7	Wyoming	48.8 <sup>bc</sup>	1.47	(44)	-14.1
Missouri	64.1 <sup>bc</sup>	0.47	(11)	12.9					

<sup>a</sup> NCHS public use data file. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

<sup>b</sup> Absolute percent difference between state rate and total U.S. rate is 5% or more.

<sup>c</sup> Difference between state rate and total U.S. rate is statistically significant ( $p \leq .0002$ ).

SE Standard error of the rate.

PD Percent difference between state rate and total U.S. rate.



Table XV-17  
LUNG AND BRONCHUS CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH<sup>a</sup> RATES BY STATE, 1996-2000

All Races, Males

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
TOTAL U.S.	79.5	0.12							
High Five States									
Kentucky	114.3 <sup>bc</sup>	1.19	(01)	43.8					
Mississippi	111.7 <sup>bc</sup>	1.45	(02)	40.5					
Tennessee	106.2 <sup>bc</sup>	0.98	(03)	33.6					
Arkansas	104.7 <sup>bc</sup>	1.33	(04)	31.7					
West Virginia	104.3 <sup>bc</sup>	1.56	(05)	31.2					
Low Five States									
Idaho	61.9 <sup>bc</sup>	1.58	(47)	-22.1					
Colorado	55.8 <sup>bc</sup>	0.92	(48)	-29.8					
Hawaii	54.3 <sup>bc</sup>	1.41	(49)	-31.7					
New Mexico	52.7 <sup>bc</sup>	1.25	(50)	-33.7					
Utah	36.7 <sup>bc</sup>	1.08	(51)	-53.8					
Alabama	100.9 <sup>bc</sup>	1.06	(07)	26.9	Montana	70.3 <sup>bc</sup>	1.87	(38)	-11.6
Alaska	73.7 <sup>b</sup>	3.54	(34)	-7.3	Nebraska	72.1 <sup>bc</sup>	1.39	(37)	-9.3
Arizona	64.3 <sup>bc</sup>	0.78	(42)	-19.1	Nevada	79.7	1.53	(25)	0.3
Arkansas	104.7 <sup>bc</sup>	1.33	(04)	31.7	New Hampshire	75.7	1.79	(30)	-4.8
California	63.0 <sup>bc</sup>	0.33	(46)	-20.8	New Jersey	74.9 <sup>bc</sup>	0.66	(33)	-5.8
Colorado	55.8 <sup>bc</sup>	0.92	(48)	-29.8	New Mexico	52.7 <sup>bc</sup>	1.25	(50)	-33.7
Connecticut	67.8 <sup>bc</sup>	0.96	(41)	-14.7	New York	69.1 <sup>bc</sup>	0.43	(39)	-13.1
Delaware	89.2 <sup>bc</sup>	2.40	(14)	12.2	North Carolina	96.3 <sup>bc</sup>	0.81	(08)	21.1
District of Columbia	83.2	2.77	(19)	4.7	North Dakota	63.3 <sup>bc</sup>	2.02	(45)	-20.4
Florida	77.5 <sup>c</sup>	0.43	(28)	-2.5	Ohio	88.0 <sup>bc</sup>	0.61	(15)	10.7
Georgia	94.8 <sup>bc</sup>	0.89	(10)	19.2	Oklahoma	95.2 <sup>bc</sup>	1.15	(09)	19.7
Hawaii	54.3 <sup>bc</sup>	1.41	(49)	-31.7	Oregon	75.3 <sup>bc</sup>	1.02	(32)	-5.3
Idaho	61.9 <sup>bc</sup>	1.58	(47)	-22.1	Pennsylvania	80.4	0.53	(23)	1.1
Illinois	81.7 <sup>c</sup>	0.59	(22)	2.8	Rhode Island	86.0 <sup>b</sup>	1.93	(17)	8.2
Indiana	93.7 <sup>bc</sup>	0.89	(11)	17.9	South Carolina	92.9 <sup>bc</sup>	1.12	(12)	16.9
Iowa	76.5	1.05	(29)	-3.8	South Dakota	72.5 <sup>b</sup>	2.04	(35)	-8.8
Kansas	78.4	1.17	(26)	-1.4	Tennessee	106.2 <sup>bc</sup>	0.98	(03)	33.6
Kentucky	114.3 <sup>bc</sup>	1.19	(01)	43.8	Texas	82.8 <sup>c</sup>	0.50	(20)	4.2
Louisiana	102.6 <sup>bc</sup>	1.13	(06)	29.1	Utah	36.7 <sup>bc</sup>	1.08	(51)	-53.8
Maine	82.6	1.70	(21)	3.9	Vermont	77.8	2.50	(27)	-2.1
Maryland	84.1 <sup>bc</sup>	0.95	(18)	5.8	Virginia	87.7 <sup>bc</sup>	0.85	(16)	10.3
Massachusetts	75.4 <sup>bc</sup>	0.76	(31)	-5.2	Washington	72.2 <sup>bc</sup>	0.81	(36)	-9.2
Michigan	80.3	0.64	(24)	1.0	West Virginia	104.3 <sup>bc</sup>	1.56	(05)	31.2
Minnesota	63.7 <sup>bc</sup>	0.81	(44)	-19.9	Wisconsin	68.5 <sup>bc</sup>	0.78	(40)	-13.8
Mississippi	111.7 <sup>bc</sup>	1.45	(02)	40.5	Wyoming	64.2 <sup>bc</sup>	2.61	(43)	-19.2
Missouri	91.2 <sup>bc</sup>	0.87	(13)	14.7					

<sup>a</sup> NCHS public use data file. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

<sup>b</sup> Absolute percent difference between state rate and total U.S. rate is 5% or more.

<sup>c</sup> Difference between state rate and total U.S. rate is statistically significant ( $p \leq .0002$ ).

SE Standard error of the rate.

PD Percent difference between state rate and total U.S. rate.

Table XV-18  
LUNG AND BRONCHUS CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH<sup>a</sup> RATES BY STATE, 1996-2000

All Races, Females

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
TOTAL U.S.	40.7	0.07							
High Five States									
Nevada	54.1 <sup>bc</sup>	1.11	(01)	32.9					
Kentucky	52.3 <sup>bc</sup>	0.68	(02)	28.5					
West Virginia	51.0 <sup>bc</sup>	0.92	(03)	25.3					
Maine	47.9 <sup>bc</sup>	1.11	(04)	17.7					
Delaware	47.8 <sup>bc</sup>	1.49	(05)	17.4					
Low Five States									
South Dakota	31.4 <sup>bc</sup>	1.21	(47)	-22.9					
North Dakota	30.5 <sup>bc</sup>	1.29	(48)	-25.1					
New Mexico	30.1 <sup>bc</sup>	0.82	(49)	-26.0					
Hawaii	27.4 <sup>bc</sup>	0.92	(50)	-32.7					
Utah	17.6 <sup>bc</sup>	0.66	(51)	-56.8					
Alabama	38.4 <sup>bc</sup>	0.55	(35)	-5.7	Montana	40.3	1.26	(27)	-1.0
Alaska	47.6 <sup>b</sup>	2.51	(06)	17.0	Nebraska	33.8 <sup>bc</sup>	0.84	(44)	-17.0
Arizona	37.6 <sup>bc</sup>	0.53	(40)	-7.6	Nevada	54.1 <sup>bc</sup>	1.11	(01)	32.9
Arkansas	43.4 <sup>bc</sup>	0.74	(17)	6.6	New Hampshire	44.6 <sup>b</sup>	1.18	(14)	9.6
California	38.8 <sup>c</sup>	0.22	(34)	-4.7	New Jersey	41.6	0.41	(24)	2.2
Colorado	32.0 <sup>bc</sup>	0.59	(46)	-21.4	New Mexico	30.1 <sup>bc</sup>	0.82	(49)	-26.0
Connecticut	40.1	0.63	(28)	-1.5	New York	38.2 <sup>bc</sup>	0.26	(37)	-6.1
Delaware	47.8 <sup>bc</sup>	1.49	(05)	17.4	North Carolina	38.9 <sup>c</sup>	0.42	(33)	-4.4
District of Columbia	41.9	1.60	(22)	2.9	North Dakota	30.5 <sup>bc</sup>	1.29	(48)	-25.1
Florida	42.0 <sup>c</sup>	0.28	(21)	3.2	Ohio	44.4 <sup>bc</sup>	0.37	(15)	9.1
Georgia	39.1	0.46	(32)	-3.9	Oklahoma	44.7 <sup>bc</sup>	0.68	(13)	9.8
Hawaii	27.4 <sup>bc</sup>	0.92	(50)	-32.7	Oregon	46.3 <sup>bc</sup>	0.70	(07)	13.8
Idaho	33.3 <sup>bc</sup>	1.04	(45)	-18.2	Pennsylvania	39.8	0.31	(31)	-2.2
Illinois	41.2	0.35	(25)	1.2	Rhode Island	45.3 <sup>bc</sup>	1.19	(10)	11.3
Indiana	45.6 <sup>bc</sup>	0.52	(09)	12.0	South Carolina	38.3 <sup>bc</sup>	0.60	(36)	-5.9
Iowa	35.5 <sup>bc</sup>	0.63	(42)	-12.8	South Dakota	31.4 <sup>bc</sup>	1.21	(47)	-22.9
Kansas	37.7 <sup>bc</sup>	0.71	(39)	-7.4	Tennessee	42.8 <sup>bc</sup>	0.52	(19)	5.2
Kentucky	52.3 <sup>bc</sup>	0.68	(02)	28.5	Texas	39.8	0.29	(30)	-2.2
Louisiana	44.4 <sup>bc</sup>	0.62	(16)	9.1	Utah	17.6 <sup>bc</sup>	0.66	(51)	-56.8
Maine	47.9 <sup>bc</sup>	1.11	(04)	17.7	Vermont	39.9	1.55	(29)	-2.0
Maryland	45.2 <sup>bc</sup>	0.57	(11)	11.1	Virginia	41.6	0.48	(23)	2.2
Massachusetts	43.3 <sup>bc</sup>	0.48	(18)	6.4	Washington	45.9 <sup>bc</sup>	0.56	(08)	12.8
Michigan	42.7 <sup>c</sup>	0.40	(20)	4.9	West Virginia	51.0 <sup>bc</sup>	0.92	(03)	25.3
Minnesota	35.4 <sup>bc</sup>	0.53	(43)	-13.0	Wisconsin	36.3 <sup>bc</sup>	0.49	(41)	-10.8
Mississippi	40.9	0.73	(26)	0.5	Wyoming	37.9 <sup>b</sup>	1.76	(38)	-6.9
Missouri	45.2 <sup>bc</sup>	0.53	(12)	11.1					

<sup>a</sup> NCHS public use data file. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

<sup>b</sup> Absolute percent difference between state rate and total U.S. rate is 5% or more.

<sup>c</sup> Difference between state rate and total U.S. rate is statistically significant ( $p \leq .0002$ ).

SE Standard error of the rate.

PD Percent difference between state rate and total U.S. rate.

Table XV-19  
LUNG AND BRONCHUS CANCER (Invasive)

Estimated United States Cancer Prevalence Counts<sup>a</sup> on January 1, 2000  
By Race/Ethnicity, Sex and Years Since Diagnosis

Years Since Diagnosis	0 to <5	5 to <10	10 to <15	15 to <20	20 to <25	0 to <10	0 to <25	>=25 <sup>f</sup>	Complete <sup>g</sup>
<b>Race/Sex</b>									
All Races <sup>b</sup>	202,049	64,492	33,754	18,075	9,871	266,541	328,241	14,216	342,457
Males	102,908	31,191	17,500	9,081	5,180	134,099	165,860	8,687	174,547
Females	99,141	33,301	16,254	8,994	4,691	132,442	162,381	5,529	167,910
White <sup>b</sup>	175,244	57,029	29,944	16,104	8,738	232,273	287,059	7,605	294,664
Males	87,928	27,199	15,212	7,978	4,568	115,127	142,885	4,114	146,999
Females	87,316	29,830	14,732	8,126	4,170	117,146	144,174	3,491	147,665
Black <sup>b</sup>	21,428	5,961	3,094	1,588	906	27,389	32,977	885	33,862
Males	11,703	3,143	1,835	880	520	14,846	18,081	504	18,585
Females	9,725	2,818	1,259	708	386	12,543	14,896	381	15,277
Asian/Pacific Islander <sup>c</sup>	3,925	954	+	+	+	4,879	+	+	+
Males	2,398	566	+	+	+	2,964	+	+	+
Females	1,527	388	+	+	+	1,915	+	+	+
Hispanic <sup>d</sup>	4,917	1,584	+	+	+	6,501	+	+	+
Males	2,687	803	+	+	+	3,490	+	+	+
Females	2,230	781	+	+	+	3,011	+	+	+

Estimated prevalence percent<sup>a</sup> on January 1, 2000, of the SEER 11 population diagnosed in the previous 10 years  
By Age at Prevalence, Race/Ethnicity and Sex

Age at Prevalence	Age Specific (Crude)										Age-Adjusted <sup>e</sup>
	All Ages	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80+	All Ages
<b>Race/Sex</b>											
All Races <sup>c</sup>	0.0801%	-	-	0.0011%	0.0044%	0.0262%	0.1207%	0.3629%	0.5526%	0.3722%	0.0899%
Males	0.0824%	-	-	0.0009%	0.0037%	0.0270%	0.1287%	0.4061%	0.6610%	0.4959%	0.1042%
Females	0.0779%	-	-	0.0013%	0.0051%	0.0255%	0.1131%	0.3248%	0.4718%	0.3079%	0.0794%
White <sup>c</sup>	0.0863%	-	-	0.0012%	0.0043%	0.0254%	0.1195%	0.3786%	0.5669%	0.3761%	0.0917%
Males	0.0857%	-	-	-	0.0034%	0.0246%	0.1204%	0.4112%	0.6548%	0.4997%	0.1030%
Females	0.0869%	-	-	0.0015%	0.0051%	0.0262%	0.1187%	0.3492%	0.5008%	0.3130%	0.0839%
Black <sup>c</sup>	0.0711%	-	-	-	0.0063%	0.0416%	0.1776%	0.4320%	0.6057%	0.3352%	0.1061%
Males	0.0816%	-	-	-	-	0.0508%	0.2276%	0.5404%	0.8168%	0.4669%	0.1377%
Females	0.0616%	-	-	-	-	0.0336%	0.1356%	0.3463%	0.4665%	0.2761%	0.0837%
Asian/Pacific Islander <sup>c</sup>	0.0522%	-	-	-	0.0036%	0.0186%	0.0807%	0.2094%	0.4076%	0.3660%	0.0642%
Males	0.0657%	-	-	-	-	0.0240%	0.1061%	0.2728%	0.6199%	0.4894%	0.0892%
Females	0.0394%	-	-	-	-	0.0138%	0.0582%	0.1579%	0.2467%	0.2793%	0.0447%
Hispanic <sup>d</sup>	0.0179%	-	-	-	-	0.0116%	0.0447%	0.1515%	0.2724%	0.2304%	0.0423%
Males	0.0185%	-	-	-	-	0.0119%	0.0498%	0.1796%	0.3573%	0.3140%	0.0528%
Females	0.0172%	-	-	-	-	0.0114%	0.0400%	0.1286%	0.2120%	0.1858%	0.0349%

<sup>a</sup> US 2000 cancer prevalence counts are based on 2000 cancer prevalence proportions from the SEER registries and 1/1/2000 US population estimates based on the average of 1999 and 2000 population estimates from the US Bureau of the Census. Prevalence was calculated using the First Malignant Primary Only for a person.

<sup>b c d</sup> Statistics based on b) SEER 9 Areas c) SEER 11 Areas d) SEER 11 Areas excluding Hawaii and Detroit.

<sup>e</sup> Percentages are age-adjusted to the 2000 US standard population by 5-year age groups.

<sup>f g</sup> (f) Cases diagnosed 25 years or more ago were estimated using the completeness index method (Capocaccia et. al. 1997, Merrill et. al. 2000). (g) Complete prevalence is obtained by summing 0 to <25 with >=25.

- Statistics not shown. Rate based on less than 25 cases estimated alive for the time interval.

+ Not available.

# SEER Incidence, Delay Adjusted Incidence and US Death Rates+ Lung and Bronchus Cancer, by Race and Sex

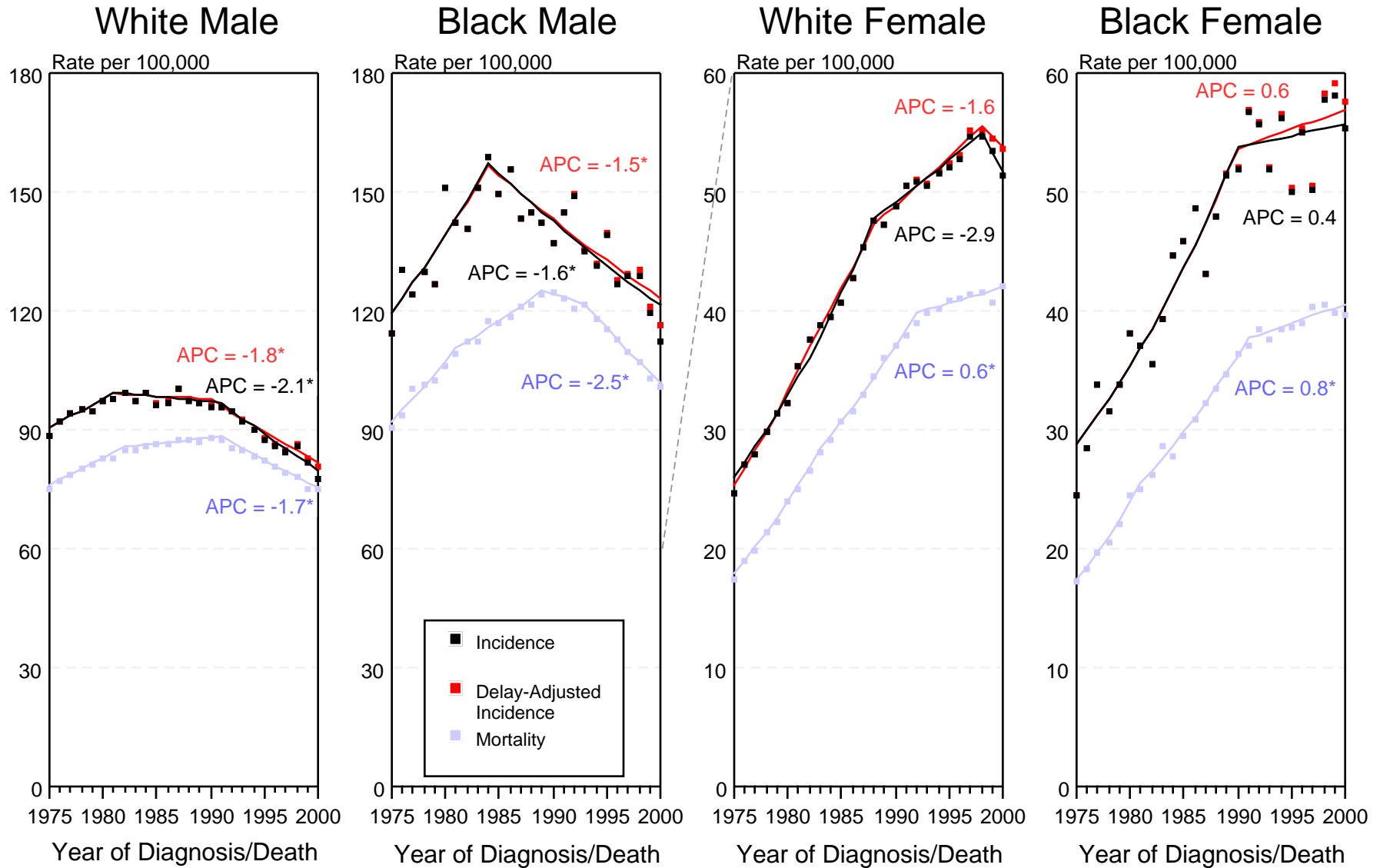


Figure XV-1

+ Source: SEER 9 areas and NCHS public use data file. Rates are age-adjusted to the 2000 US standard million population by 5-year age groups. Regression lines and APCs are calculated using the Joinpoint Regression Program. The APC is the Annual Percent Change for the regression line segments. The APC shown on the graph is for the most recent trend.

\* The APC is significantly different from zero ( $p < 0.05$ ).

## SEER Incidence and US Death Rates+ Lung and Bronchus Cancer, Under 65 Years of Age, by Race and Sex

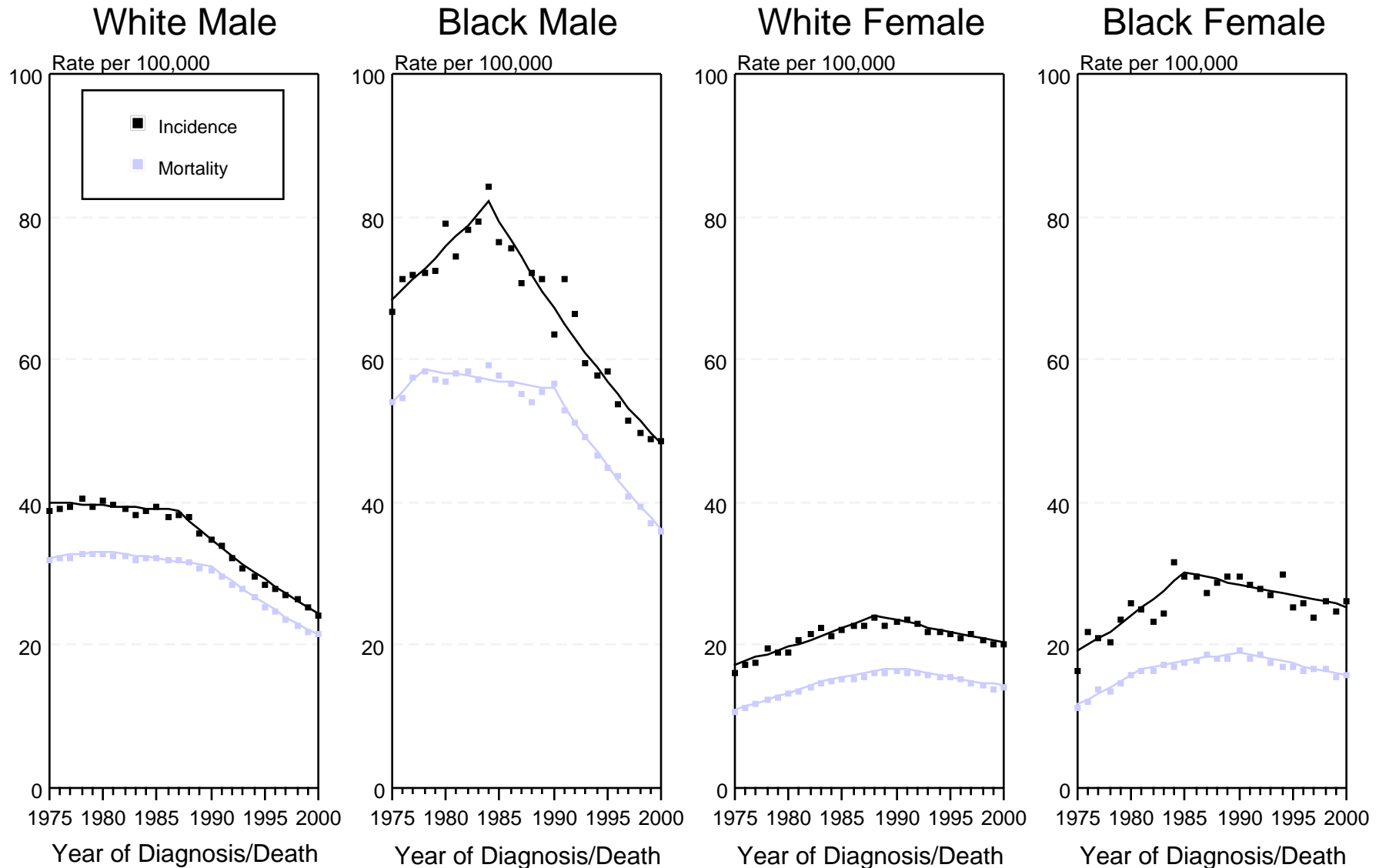


Figure XV-2

+ Source: SEER 9 areas and NCHS public use data file. Rates are age-adjusted to the 2000 US standard million population by 5-year age groups. Regression lines are calculated using the Joinpoint Regression Program.

# SEER Incidence and US Death Rates+ Lung and Bronchus Cancer, Ages 65 and Over, by Race and Sex

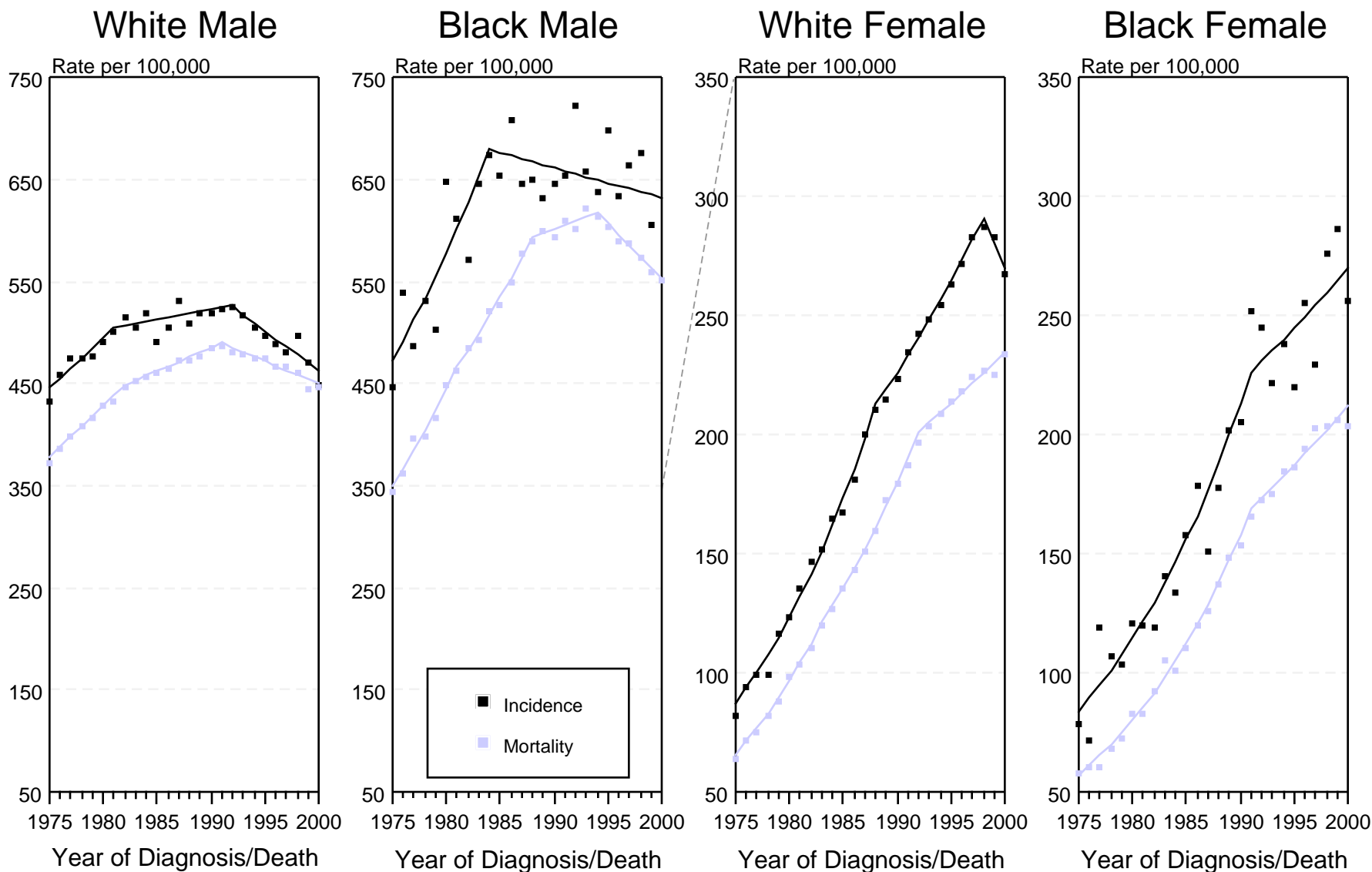
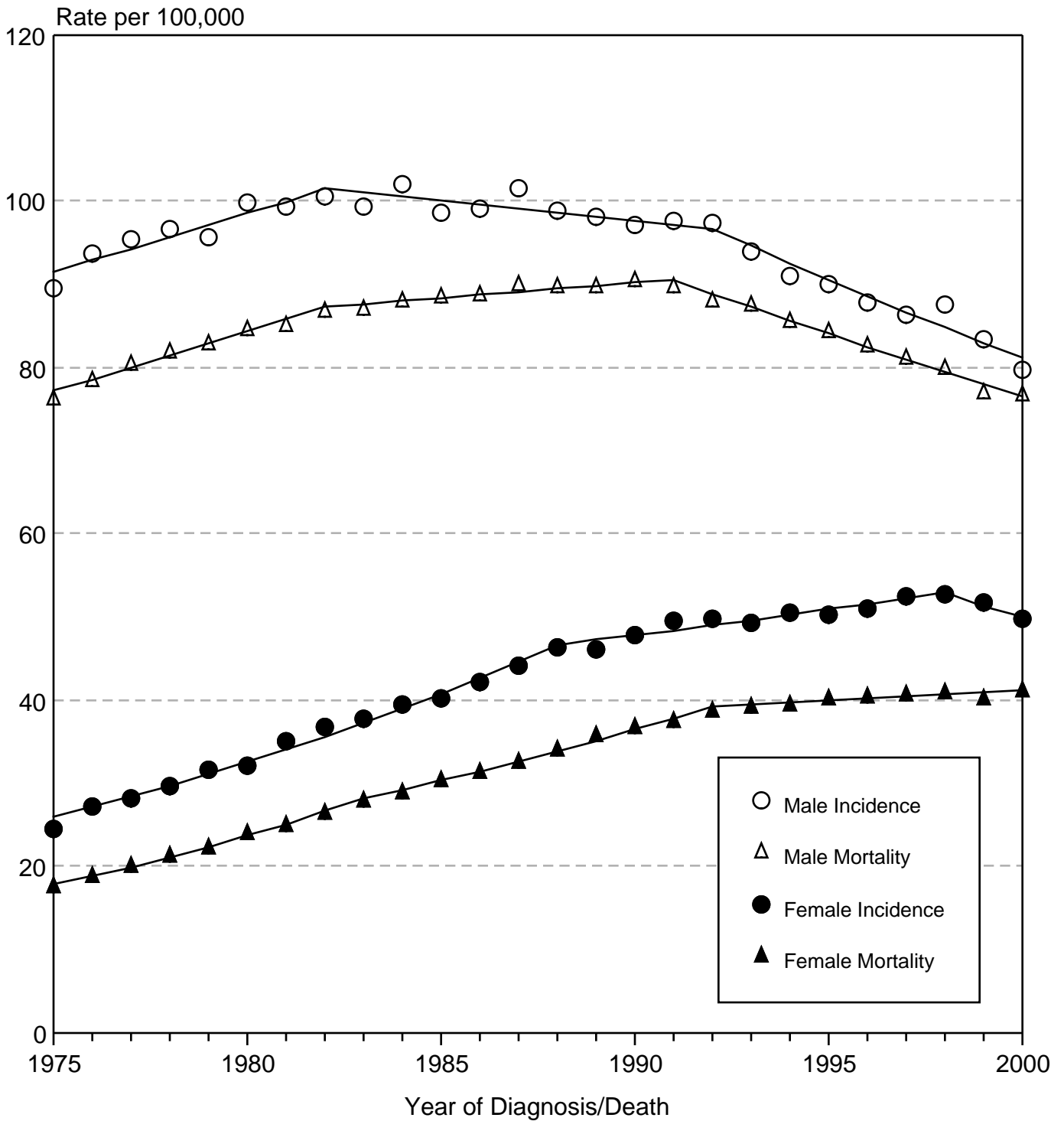


Figure XV-3

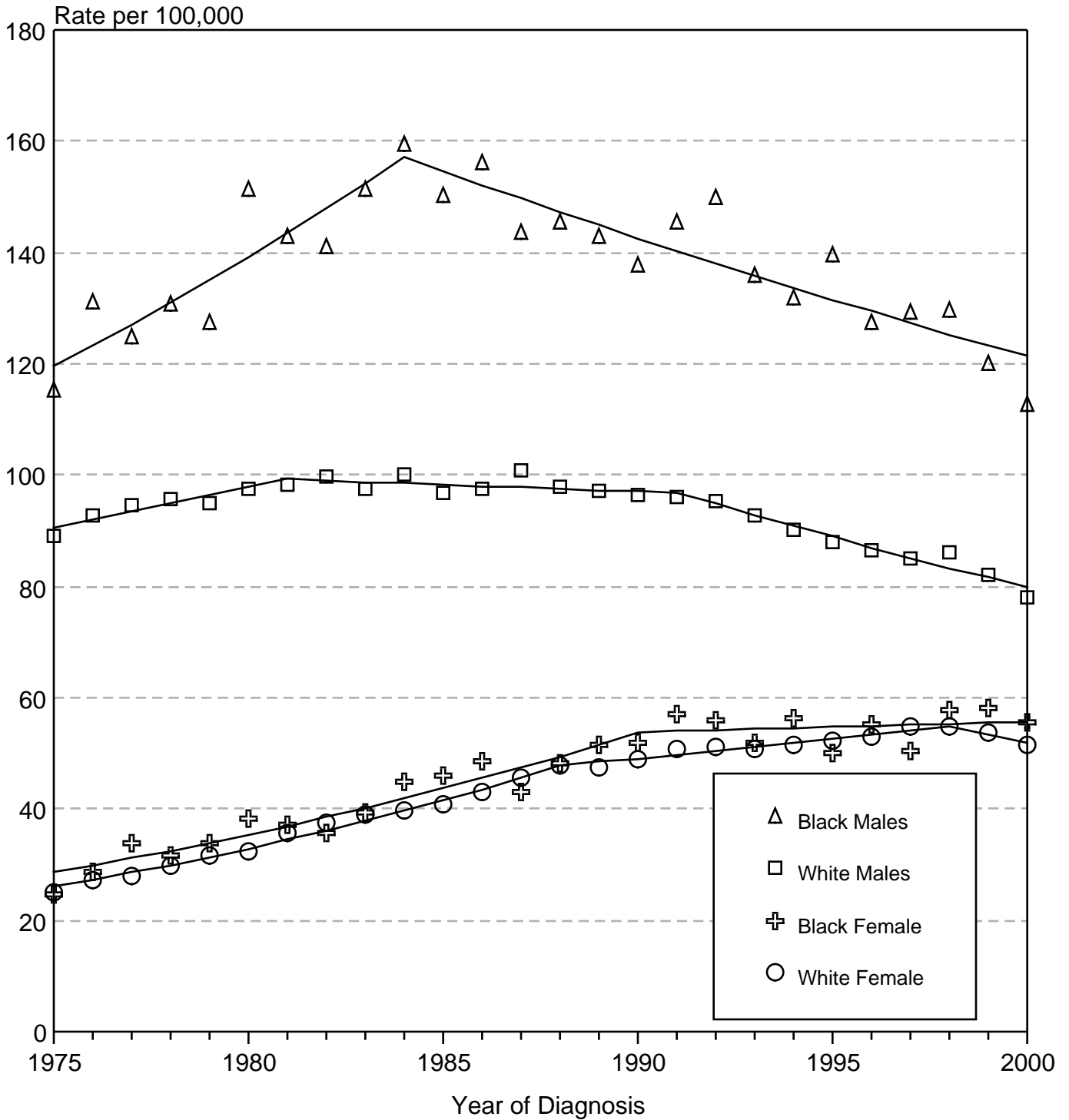
+ Source: SEER 9 areas and NCHS public use data file. Rates are age-adjusted to the 2000 US standard million population by 5-year age groups. Regression lines are calculated using the Joinpoint Regression Program.

# Cancer of the Lung & Bronchus SEER Incidence & US Death Rates, 1975-2000 By Sex, All Races



Source: SEER 9 areas and NCHS public use data file. Rates are age-adjusted to the 2000 US standard million population by 5-year age groups. Regression lines are calculated using the Joinpoint Regression Program.

# Cancer of the Lung & Bronchus SEER Incidence, 1975-2000 By Sex and Race



Source: SEER 9 areas. Rates are age-adjusted to the 2000 US standard million population by 5-year age groups. Regression lines are calculated using the Joinpoint Regression Program.