Table IV-1 FEMALE BREAST CANCER (Invasive)

TRENDS IN SEER INCIDENCE^a AND U.S. MORTALITY^b USING THE JOINPOINT REGRESSION PROGRAM, 1975-2000 WITH UP TO THREE JOINPOINTS BY RACE AND AGE

		Joinpoint S	Segment 1	Joinpoint S	egment 2	Joinpoint S	egment 3	Joinpoint Se	gment 4
		Year	APC	Year	APC	Year	APC	Year	APC
SEER Cance	er Incidence ^a								
All Races	All Ages	1975-1980	-0.4	1980-1987	3.7°	1987-2000	0.4°		
All Races	Under 50	1975-1980	-1.4	1980-1986	2.9°	1986-2000	-0.3		
All Races	50 and Over	1975-1982	0.8	1982-1986	5.8°	1986-2000	0.7°		
White	All Ages	1975-1980	-0.3	1980-1987	3.8°	1987-2000	0.4°		
White	Under 50	1975-1980	-1.2	1980-1986	2.8°	1986-2000	-0.3°		
White	50 and Over	1975-1980	-0.1	1980-1987	4.3°	1987-2000	0.7°		
Black	All Ages	1975-1992	2.2°	1992-2000	-0.2				
Black	Under 50	1975-1991	1.5°	1991-2000	-0.9				
Black	50 and Over	1975-1995	2.3°	1995-2000	-1.3				
SEER Delay	-Adjusted Incidencea								
All Races	All Ages	1975-1980	-0.6	1980-1986	4.1°	1986-2000	0.6°		
White	All Ages	1975-1980	-0.5	1980-1987	4.1°	1987-1993	-0.2	1993-2000	1.4°
Black	All Ages	1975-1992	2.3°	1992-2000	0.2				
U.S. Cance	er Mortality ^b								
All Races	All Ages	1975-1990	0.4°	1990-2000	-2.3°				
All Races	Under 50	1975-1991	-0.4°	1991-2000	-3.7°				
All Races	50 and Over	1975-1990	0.6°	1990-2000	-2.0°				
White	All Ages	1975-1990	0.3°	1990-2000	-2.5°				
White	Under 50	1975-1991	-0.7°	1991-2000	-4.2°				
White	50 and Over	1975-1990	0.5°	1990-2000	-2.2°				
Black	All Ages	1975-1991	1.6°	1991-2000	-1.0°				
Black	Under 50	1975-1987	1.7°	1987-1996	-1.1°	1996-2000	-3.6°		
Black	50 and Over	1975-1993	1.6°	1993-2000	-1.2°				

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.

Trends are from the SEER 9 areas.

Trends are from the NCHS public use data file.

The APC is significantly different from zero (p<.05).

b

Table IV-2 FEMALE BREAST CANCER (In Situ)

TRENDS IN SEER INCIDENCE USING THE JOINPOINT REGRESSION PROGRAM, 1975-2000 WITH UP TO THREE JOINPOINTS BY RACE AND AGE

		Joinpoint S	egment 1	Joinpoint S	egment 2	Joinpoint Se	egment 3	Joinpoint	Segment 4
		Year	APC	Year	APC	Year	APC	Year	APC
SEER Cance	er Incidence ^a								
All Races	All Ages	1975-1982	-0.8	1982-1986	32.3 ^b	1986-2000	6.1 ^b		
All Races	Under 50	1975-1982	-2.3	1982-1986	27.9 ^b	1986-2000	3.8 ^b		
All Races	50 and Over	1975-1981	-1.9	1981-1987	26.0 ^b	1987-2000	6.8 ^b		
White White White	All Ages Under 50 50 and Over	1975-1982 1975-1982 1975-1981	-0.7 -3.9 -1.3	1982-1986 1982-1985 1981-1987	33.0 ^b 40.5 ^b 26.1 ^b	1986-2000 1985-2000 1987-2000	5.9 ^b 4.0 ^b 6.5 ^b		
Black	All Ages	1975-1981	2.9 6.9 ^b	1981-1988	18.9 ^b	1988-2000	7.0 ^b		
Black Black	Under 50 50 and Over	1975-2000 1975-1980	-2.1	1980-1988	20.8 ^b	1988-2000	7.9 ^b		
SEER Delay	-Adjusted Incidencea								
White	All Ages	1975-1982	-0.7	1982-1986	32.8°	1986-2000	6.0°		
Black	All Ages	1975-1981	2.9	1981-1988	18.8°	1988-2000	7.1°		

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.

Trends are from the SEER 9 areas.

The APC is significantly different from zero (p<.05).

Table IV-3 BREAST CANCER (Invasive)

SEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES^a, BY RACE AND SEX

	Total	All Races Males	Females	Tota	Whites al Males	Females	Total	Blacks Males	Females
AGE-ADJUSTED RATES	IUCAI	Males	remares	100	ai Maies	remares	IUCAI	Males	<u> </u>
YEAR OF DIAGNOSIS: 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000	58.0 56.4 55.9 55.8 56.8 59.3 59.2 61.4 69.0 70.4 74.7 73.0 73.0 73.9 71.9 71.9 72.9 71.9 73.1 76.8 76.8	0.9 1.1 1.0 0.9 1.0 1.0 1.0 0.9 1.0 0.9 1.1 1.1 1.1 1.1 1.1 1.2 1.0 1.3 1.2 1.1	105.0 101.9 100.7 100.5 102.1 106.3 106.4 111.0 126.7 134.4 131.2 127.1 131.6 133.5 131.8 129.0 130.6 132.2 137.1 140.3 139.6 135.1	59 58 57 57 58 58 61 63 66 70 72 77 75 73 75 74 74 74 74 75 77 79	.1	107.3 104.8 103.4 103.5 104.7 104.9 109.8 109.8 119.8 127.7 130.2 140.3 136.2 132.2 136.1 135.5 133.0 135.3 137.1 141.8 145.4 144.7 140.9	52.0 47.9 49.5 48.2 49.9 50.7 54.3 53.9 58.8 57.9 64.0 66.0 62.8 68.9 60.6 68.3 70.9 68.4 70.2 71.1 68.9 70.7 67.6		93.4 85.2 86.7 86.0 87.0 89.6 94.2 93.5 101.5 111.6 114.6 109.0 118.5 105.1 118.2 116.7 122.8 118.7 122.8 123.0 120.0 120.0 122.3 116.3
AGE-ADJUSTED RATES, 1996-200 AGE AT DIAGNOSIS: All ages Under 65 65 and over	75.0 46.4 272.5	1.2 0.5 5.7	137.1 90.4 459.6	77 47 284	.1 0.5	142.0 92.9 481.4	69.8 45.3 238.9	2.0 0.7 10.5	120.8 83.2 380.8
All ages (world std.) ^b	52.7	0.8	98.6	54	.1 0.8	102.2	49.6	1.2	87.7
AGE-SPECIFIC RATES, 1996-200 AGE AT DIAGNOSIS:									
<1 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79 80-84 85+		- - - - - - 0.9 1.4 2.5 3.8 3.8 5.4 6.0 9.0 6.7	- - 1.4 7.8 25.4 61.0 121.1 198.1 263.5 333.1 380.6 430.1 476.1 499.0 477.8 401.7	3	.569922 .9 .9 .1.4 .5 .2.4 .0 .2 3.9 .5 .5.5 .7 .5.8 .7 9.0	- - - 1.1 7.5 24.4 60.5 122.7 203.3 272.1 346.0 398.8 453.8 499.8 521.7 496.9 416.7	- - - 6.5 17.4 35.3 64.0 99.5 128.7 155.6 179.0 205.9 239.0 260.4 257.7 252.5	-	- - - 12.1 32.8 66.3 120.0 184.3 236.7 282.3 318.6 357.9 393.6 415.8 385.0 339.3

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.

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 IV-4 BREAST CANCER (Invasive)

U.S. DEATH RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES^a, BY RACE AND SEX

		All Races			Whites			Blacks	
	Total	Males	Females	Total	Males	Females	Total	Males	Females
AGE-ADJUSTED RATES									
YEAR OF DEATH:	4					0.1	1.5		
1975 1976	17.8 18.1	0.4 0.4	31.4 31.8	18.0 18.2	0.4 0.4	31.8 32.2	16.8 17.6	0.4 0.6	29.5 30.5
1976	18.5	0.4	32.5	18.6	0.4	32.2	18.9	0.5	32.8
1978	18.0	0.4	31.7	18.1	0.3	31.9	18.6	0.6	32.1
1979	17.7	0.3	31.2	17.9	0.3	31.5	17.9	0.5	30.8
1980	18.0	0.3	31.7	18.1	0.3	31.9	18.4	0.4	31.7
1981 1982	18.2 18.4	0.3	31.9 32.2	18.3 18.4	0.3	32.1 32.3	19.0 19.7	0.5 0.6	32.6
1983	18.3	0.3	32.2	18.4	0.3	32.3	19.7	0.5	32.6 33.7 33.5
1984	18.8	0.3	32.9	18.8	0.3	32.9	21.0	0.5	35.9
1985	18.8	0.3	33.0	18.9	0.3	33.1	20.3	0.4	34.9
1986	18.8	0.3	32.9	18.8	0.3	32.9	20.7	0.4	35.4
1987 1988	18.7 19.0	0.3	32.7 33.2	18.6 18.9	0.3	32.6 33.1	21.5 22.3	0.5	36.7 37.8
1989	19.0	0.3	33.2	18.9	0.3	33.2	21.6	0.9 0.5	36.6
1990	18.9	0.3	33.1	18.8	0.3	33.0	22.5	0.5	38.0 38.3
1991	18.7	0.3	32.7	18.5	0.3	32.4	22.6	0.4	38.3
1992 1993	18.1	0.3	31.6	17.9 17.7	0.3	31.4	21.9 22.6	0.4	37.1 38.0
1993	18.0 17.7	0.4 0.4	31.4 30.9	17.7	0.3	31.1 30.6	22.6	0.7 0.6	38.0 37.7
1995	17.4	0.4	30.6	17.1	0.3	30.1	22.7	0.8	38.2
1996	16.8	0.3	29 5	16.5	0.3	29.0	22.1	0.7	37.1
1997	16.1 15.7	0.3	28.2	15.7	0.3	27.6 27.0	22.3	0.6	37.4
1998 1999	15.7	0.3	28.2 27.5 26.6	15.3 14.8	0.3	27.0 26.0	21.1 20.9	0.6 0.7	35.5 35.2
2000	15.2 15.3	0.3	26.7	14.9	0.3	26.3	20.9	0.6	34.6
AGE-ADJUSTED RATES, 1996-200	10								
AGE AT DEATH: All ages	15.8	0.3	27.7	15.4	0.3	27.2	21.4	0.6	35.9
Under 65	7.5	0.1	14.5	7.1	0.1	13.8	12.0	0.2	21.8
65 and over	73.1	1.9	118.9	73.1	1.8	119.4	86.3	3.5	133.6
All ages (world std.)b	10.0	0.2	18.2	9.7	0.2	17.8	14.2	0.4	24.6
AGE-SPECIFIC RATES, 1996-200	10								
AGE AT DEATH:									
<1	_	=	-	=	-	=	=	-	=
1-4 5-9	_	_	_	_	_	_	_	_	_
10-14	_	_	_	=	_	_	_	_	_
15-19	_	_	-	-	_	-	-	-	_
20-24	0.1	-	0.1	0.0	_	0.1	-	-	- 1.9
25-29 30-34	0.5 1.9	- -	0.9 3.8	0.4 1.7	-	0.8	1.0 3.8	_	7.3
35-39	4.6	0.1	9.2	4.1	_	8.2	8.9	_	16.5
40-44	8.8	0.1	17.3	8.0	0.1	16.0	15.5	_	29.0
45-49	14.7	0.1	28.8	13.5	0.1	26.8	25.4	_	46.9
50-54	22.1 29.5	0.3	43.0	21.1	0.3	41.3	35.2	- 1 1	64.4
55-59 60-64	29.5 36.4	0.6 0.7	56.4 68.6	28.3 35.7	0.5 0.6	54.7 67.9	44.3 50.1	1.1 1.7	79.5 88.1
65-69	45.2	1.0	82.7	44.8	1.0	82.8	56.9	1.7	97.7
70-74	58.3	1.4	102.4	58.1	1.3	102.8	73.3	2.8	119.9
75-79	71.9	2.1	120.2	72.0	2.0	120.8	85.7	3.3	135.4
80-84 85+	93.3 143.9	2.5 4.1	145.8 199.4	93.7 144.9	2.4 3.9	146.8 200.7	107.5 154.3	4.8 7.7	158.0 209.6
	110.0	1.1	100.1	111.9	3.7	200.7	131.3	, . ,	200.0

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.

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 IV-5 FEMALE BREAST CANCER (Invasive)

SEER INCIDENCE^a AND U.S. DEATH^b RATES, AGE-ADJUSTED RATES, BY RACE AND AGE

	All	Races, Fe	males	Wh	ite Femal	es	Black Females			
	All	<50	50+	All	<50	50+	All	<50	50+	
SEER INCIDENCE RATES YEAR OF DIAGNOSIS:										
1975	105.0	40.6	273.7	107.3	40.7	281.6	93.4	42.1	227.6	
1976	101.9	40.0	264.0	104.8	40.9	272.2	85.2	38.0	208.6	
1977	100.7	39.0	262.3	103.4	39.4	270.9	86.7	37.1	216.4	
1978	100.5	38.7	262.4	103.5	39.2	272.0	86.0	39.9	206.8	
1979	102.1	38.0	269.9	104.7	38.6	277.9	87.0	37.9	215.7	
1980	102.1 102.1	38.0 37.7	269.9 270.6	104.9	38.2	279.5	89.6	37.9 37.9	215.7 225.1	
1981	106 3	39.2	282.0	109.8	40.1	292.4	94.2	38.7	239.4	
1982	106.4	40 5	279.1	109.9	41.2	289.7	93.5	37.9	239.0	
1983	106.4 111.0	40.2	296.6	114.4	40.8	306.9	103.2	41.0	266.0	
1984	115.8	42.3	308.2	119.8	43.1	320.5	101 5	44.4	251.1	
1985	124.0	44.1	333.2	127.7	44.3	345.9	111.6	45.4	284.9	
1986	126 7	44.4	342.3	130.2	45.1	353.2	114.6	45.1	296.6	
1987	134.4	45.4	342.3 367.4	140.3	46.6	385.7	109.0	45.1 42.7	282.6	
1988	131.2	44.0	359.5	136.2	44.9	375.1	118.5	43.1	316.0	
1989	127.1	43.4	346.4	132.2	44.4	362.2	105.1	42.3	269.5	
1990	131.6	45.5	356.9	136.1	45.4	373.5	118.2	48.9	299.7	
1991	120.7 134.4 131.2 127.1 131.6 133.5	47.0	360.0	138.5	46.9	378.4	116.7	50.7	289.6	
1992	1.31.8	43.4	363.5	135.5	43.6	376.1	122.8	46.3	323.0	
1993	129.0 130.6	42.7 42.2	355.1 361.9	133.0 135.3	43.1 42.5	368.3	118.7	44.8	312.4 316.3	
1994	130.6	42.2	361.9	135.3	42.5	378.3	121.7	47.4	316.3	
1995	132.2	42.9	365.9	137.1	43.4	382.2	123.1	45.3	326.8	
1996	133.2 137.1	43.3 43.2	368.4	137.4	43.7	382.8	122.8	43.6	330.3 331.1	
1997	137.1	43.2	382.8	141.8	43.8	398.4	123.0	43.6	331.1	
1998	140.3	44.9	390.2	145.4	45.1	408.0	120.0	45.4	315.4	
1999	139.6 135.1	43.2	392.2	144.7	44.4	407.4	122.3	41.8	333.1	
2000	135.1	43.2	375.5	140.9	43.4	396.0	116.3	45.3	302.2	
1996-2000	13/.1	43.6	381.9	142.0	44.1	398.6	120.8	43.9	322.1	
U.S. DEATH RATES										
YEAR OF DEATH:										
1975	31.4	9.1	89.9	31.8	9.0	91.4	29.5	10.7	78.8	
1976	31.8	8.7	92.2	32.2	8.6	93.8	30.5	10.2	83.5	
1977	32.5	8.9	94.3	32.2 32.7 31.9	8.7	95.3	32.8	10.5	83.5 91.1 86.5	
1978	31.7	8.7	92.1	31.9	8.5	93.3	32.1	11.4	86.5	
1979	31.2 31.7	8.6	90.5	31.5	8.3	92.1	30.8	11.4	81.8	
1980	31.7	8.6	92.2	31.9	8.4	93.6	31.7	10.8	86.3	
1981	31.9	8.5	93.3	31.9 32.1	8.4 8.2	94.8	32.6	10.8 11.5	86.3 87.7	
1982	32.2	8.4	94.4	32 3	8.2	95.5	33.7	11 2	92.8	
1983	32.1	8.2 8.6	94.7	32.2	7.9	95.8 97.5	33.5	11.2	92.8 92.1 97.2	
1984	32.9	8.6	96.6	32.9	7.9 8.2 8.3	97.5	35.9	12.5	97.2	
1985	32.2 32.1 32.9 33.0 32.9 32.7 33.2 33.2	8.6	96.9	32.2 32.9 33.1 32.9	8.3	98.1	34.9	11.2 12.5 12.0 12.9 12.9 12.7	94.6	
1986	32.9	8.6	96.3	32.9	8.3	97.5	35.4	12.9	94.6 99.0	
1987	32.7	8.4	96.1	32.6 33.1	8.0	96.9	36.7	12.9	99.0	
1988	33.2	8.4	98.2	33.1	8.0	98.8	37.8	12.7	103.4	
1989	33.2	8.4	98.2	33.2	8.1	99.2	36.6	12.4	100.0	
1990	33.1	8.4 8.3 8.2 7.8	98.1 96.9	33.2 33.0 32.4	8.0 7.7	98.5	38.0	12.0 12.3 12.0	106.1	
1991	32.7	8.2	96.9	32.4	7.7	97.2 94.5	38.3	12.3	106.3	
1992 1993		7.8	94.2 94.2	31.4 31.1	7.4	94.5 94.2	37.1 38.0	$\frac{12.0}{11.7}$	102.7 107.1	
1993	31.4 30.9 30.6 29.5 28.2 27.5	7.4 7.4	94.2 92.6	31.1	6.9	94.2	38.0 37.7	11 7	107.1	
1994	30.9	7.4	92.6	30.6 30.1	6.8	91.1	37.7	11.7 11.7	105.9	
1995	20.0	6.9	88.5	29.0	6.4	88.3	37.1	11.7	107.5	
1996	28.3	6.7	84.5	27.6	6.7	83.6	37.1	11 0	106.6	
1998	20.2	6.3	83 1	27.0	6.2 5.8	82.5	35.5	11.0 10.6	100.7	
1999	26.6	5.7	83.1 81.2	26.0	5.2	80.4	35.2	10.3	100.7	
2000	26.7	5.9	81.3	26.3	5.4	80.9	34.6	10.0	98.9	
1996-2000	27.7	6.3	81.3 83.7	27.2	5.8	83.1	35.9	10.7	102.0	
1220 2000	2,.,	3.3	00.7	27.2	3.0	JJ.1	33.7	20.7		

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. 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 IV-6 FEMALE BREAST CANCER (In Situ)

SEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES $^{\mathrm{a}}$, BY RACE AND SEX

	All Races, Fema	ales 50+	Mh All	ite Female <50	Black Females All <50 50+			
SEER INCIDENCE RATES YEAR OF DIAGNOSIS:								
1975	5.8 3.8	11.2	5.9	3.8	11.3	4.0	-	_
1976	5.3 2.7	12.0	5.4	2.9	11.8	-	-	-
1977	4.3 2.6	8.7	4.3	2.6	8.9	-	-	_
1978 1979	4.4 2.3 4.6 2.8	9.8 9.3	$\frac{4.5}{4.7}$	2.5 2.9	10.0 9.4	4.8	_	_
1979	4.0 2.0 4.9 3.0	9.3	5.0	3.1	10.2	3.7	_	_
1981	5.0 2.6	11.0	5.0	2.5	11.3	4.1	_	_
1982	5.3 2.7	12.0	5.3	2.7	12.2	5.7	-	13.3
1983	6.1 3.0	14.1	6.2	3.0	14.6	5.5	-	13.2
1984	8.6 4.8	18.6	9.2	5.2	19.6	6.4	<u>-</u>	16.8
1985 1986	11.5 5.9 13.6 6.7	26.2 31.7	12.1 14.3	6.3 7.2	27.3 33.0	8.1 9.2	5.1	20.7 20.1
1987	17.4 7.8	42.3	18.2	8.2	44.2	12.1	5.3	29.7
1988	17.6 8.2	42.2	18.1	8.5	43.1	16.2	7.4	39.3
1989	16.5 7.0	41.4	17.1	7.3	42.7	14.6	5.5	38.6
1990	19.1 8.4	47.1	19.9	8.8	49.1	15.1	5.5	40.0
1991	19.8 8.8 21.5 9.0	48.7 54.0	20.4 22.2	8.9	50.8 56.1	15.3	7.3	36.3
1992 1993	21.5 9.0 20.8 8.4	53.3	21.4	9.2 8.8	54.4	19.0 16.6	6.8 6.1	50.9 44.2
1994	22.3 8.8	57.9	22.9	9.1	59.1	20.0	7.2	53.7
1995	24.7 9.6	64.2	25.0	9.8	64.6	22.4	6.3	64.6
1996	25.5 9.9	66.3	26.0	9.8	68.3	22.2	7.6	60.4
1997	28.4 11.1	73.8	28.9	11.2	75.4	27.6	11.2	70.5
1998 1999	32.7 11.9 32.6 11.9	87.1 86.8	33.6 32.9	12.2 12.1	89.5 87.1	29.3 29.2	10.4 10.0	78.7 79.4
2000	32.7 11.7	87.7	33.5	12.3	89.1	29.2	7.8	85.7
1996-2000	30.4 11.3	80.6	31.0	11.5	82.0	27.6	9.4	75.4
	All Races, Fema	ales	Wh	ite Female	<u>es</u>	Bl	ack Female	es
AGE-ADJUSTED RATES, 1996-2000		ales	Wh	ite Female	es	Bl	ack Female	es
AGE AT DIAGNOSIS: All ages	30.4	ales	Wh	31.0	es	B1.	27.6	es
AGE AT DIAGNOSIS: All ages Under 65	30.4	ales	<u> Wh</u>	31.0 23.8	<u>es</u>	Bl	27.6 19.8	es
AGE AT DIAGNOSIS: All ages Under 65 65 and over	30.4 23.3 79.9	ales	Wh	31.0 23.8 80.7	es	B1.	27.6 19.8 82.1	es
AGE AT DIAGNOSIS: All ages Under 65 65 and over All ages (world std.)b	30.4 23.3 79.9 23.0	ales	Wh	31.0 23.8	<u>es</u>	Bl.	27.6 19.8	es
AGE AT DIAGNOSIS: All ages Under 65 65 and over All ages (world std.)b AGE-SPECIFIC RATES, 1996-2000 AGE AT DIAGNOSIS:	30.4 23.3 79.9 23.0	ales	Wh	31.0 23.8 80.7	<u>es</u>	Bl.	27.6 19.8 82.1	es
AGE AT DIAGNOSIS: All ages Under 65 65 and over All ages (world std.)b AGE-SPECIFIC RATES, 1996-2000 AGE AT DIAGNOSIS: <1 1-4	30.4 23.3 79.9 23.0	ales	Wh	31.0 23.8 80.7	<u>es</u>	Bl.	27.6 19.8 82.1	es
AGE AT DIAGNOSIS: All ages Under 65 65 and over All ages (world std.)b AGE-SPECIFIC RATES, 1996-2000 AGE AT DIAGNOSIS: <1 1-4 5-9	30.4 23.3 79.9 23.0	ales	Wh	31.0 23.8 80.7	<u>es</u>	Bl.	27.6 19.8 82.1	es
AGE AT DIAGNOSIS: All ages Under 65 65 and over All ages (world std.)b AGE-SPECIFIC RATES, 1996-2000 AGE AT DIAGNOSIS: <1 1-4 5-9 10-14	30.4 23.3 79.9 23.0	ales	Wh	31.0 23.8 80.7	<u>es</u>	Bl.	27.6 19.8 82.1	es
AGE AT DIAGNOSIS: All ages Under 65 65 and over All ages (world std.)b AGE-SPECIFIC RATES, 1996-2000 AGE AT DIAGNOSIS: <1 1-4 5-9 10-14 15-19	30.4 23.3 79.9 23.0	ales	wh	31.0 23.8 80.7	<u>es</u>	B1.	27.6 19.8 82.1	es
AGE AT DIAGNOSIS: All ages Under 65 65 and over All ages (world std.)b AGE-SPECIFIC RATES, 1996-2000 AGE AT DIAGNOSIS: <1 1-4 5-9 10-14 15-19 20-24 25-29	30.4 23.3 79.9 23.0	ales	Wh	31.0 23.8 80.7 23.5	<u>es</u>	B1.	27.6 19.8 82.1 20.6	es
AGE AT DIAGNOSIS: All ages Under 65 65 and over All ages (world std.)b AGE-SPECIFIC RATES, 1996-2000 AGE AT DIAGNOSIS: <1 1-4 5-9 10-14 15-19 20-24 25-29 30-34	30.4 23.3 79.9 23.0	ales	Wh	31.0 23.8 80.7 23.5	<u>es</u>	B1.	27.6 19.8 82.1 20.6	es
AGE AT DIAGNOSIS: All ages Under 65 65 and over All ages (world std.) ^b AGE-SPECIFIC RATES, 1996-2000 AGE AT DIAGNOSIS: <1 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39	30.4 23.3 79.9 23.0	ales	Wh	31.0 23.8 80.7 23.5	<u>es</u>	B1.	27.6 19.8 82.1 20.6	es
AGE AT DIAGNOSIS: All ages Under 65 65 and over All ages (world std.)b AGE-SPECIFIC RATES, 1996-2000 AGE AT DIAGNOSIS: <1 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44	30.4 23.3 79.9 23.0 	ales	Wh	31.0 23.8 80.7 23.5	<u>es</u>	B1.	27.6 19.8 82.1 20.6	es
AGE AT DIAGNOSIS: All ages Under 65 65 and over All ages (world std.) ^b AGE-SPECIFIC RATES, 1996-2000 AGE AT DIAGNOSIS: <1 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39	30.4 23.3 79.9 23.0 	ales	Wh	31.0 23.8 80.7 23.5	<u>es</u>	B1.	27.6 19.8 82.1 20.6	es
AGE AT DIAGNOSIS: All ages Under 65 65 and over All ages (world std.) ^b AGE-SPECIFIC RATES, 1996-2000 AGE AT DIAGNOSIS: <1 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59	30.4 23.3 79.9 23.0	ales	Wh	31.0 23.8 80.7 23.5	<u>es</u>	B1.	27.6 19.8 82.1 20.6	es
AGE AT DIAGNOSIS: All ages Under 65 65 and over All ages (world std.) ^b AGE-SPECIFIC RATES, 1996-2000 AGE AT DIAGNOSIS: <1 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64	30.4 23.3 79.9 23.0 	ales	Wh	31.0 23.8 80.7 23.5 - - - - - - 3.0 11.2 34.7 60.3 77.6 87.7 86.6	<u>es</u>	B1.	27.6 19.8 82.1 20.6	es
AGE AT DIAGNOSIS: All ages Under 65 65 and over All ages (world std.) ^b AGE-SPECIFIC RATES, 1996-2000 AGE AT DIAGNOSIS: <1 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69	30.4 23.3 79.9 23.0 	ales	Wh	31.0 23.8 80.7 23.5 - - - - 3.0 11.2 34.7 60.3 77.6 87.7 86.6 94.6	<u>es</u>	B1.	27.6 19.8 82.1 20.6	es
AGE AT DIAGNOSIS: All ages Under 65 65 and over All ages (world std.) ^b AGE-SPECIFIC RATES, 1996-2000 AGE AT DIAGNOSIS: <1 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74	30.4 23.3 79.9 23.0 	ales	Wh	31.0 23.8 80.7 23.5 - - - - - - 3.0 11.2 34.7 60.3 77.6 87.7 86.6	<u>es</u>	B1.	27.6 19.8 82.1 20.6	es
AGE AT DIAGNOSIS: All ages Under 65 65 and over All ages (world std.) ^b AGE-SPECIFIC RATES, 1996-2000 AGE AT DIAGNOSIS: <1 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69	30.4 23.3 79.9 23.0 	ales	Wh	31.0 23.8 80.7 23.5 - - - - 3.0 11.2 34.7 60.3 77.6 87.7 86.6 94.6 93.5	<u>es</u>	B1.	27.6 19.8 82.1 20.6	es

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.

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 IV-7 FEMALE BREAST CANCER (Invasive)

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

	All	Races, Fe	males	W.	hite Femal	es	Black Females			
	All	<50	50+	All	<50	50+	All	<50	50+	
5-YR RELATIVE SURVIVAL	DATEC									
YEAR OF DIAGNOSIS:	KAILS									
1960-1963 ^a		_	_	63	_	_	46	_	_	
1900-1903 1970-1973 ^a	=	_	- -	68	_	_	51	_ _	_	
1970-1973 1974-1976 ^b	- 74.7	- 76.4	- 74.1	75.3	- 77.4	- 74.6	63.2	64.3	62.5	
1974-1976 ^b		75.4 75.8			77.4					
	74.7		74.4	75.5		75.0	63.1	65.3	61.8	
1980-1982 ^b	76.3	77.1	76.1	77.1	77.9	76.9	65.8	68.8	64.1	
1983-1985 ^b	78.1	77.3	78.3	79.2	79.0	79.3	63.5	63.3	63.6	
1986-1988 ^b	82.8	80.1	83.8	83.9	81.5	84.7	69.2	67.3	70.2	
1989-1991 ^b	84.9	82.6	85.8	86.1	84.5	86.8	71.1	69.1	72.4	
1992-1999 ^b	86.6°	84.5°	87.5°	87.9°	86.3°	88.5°	73.5°	71.1°	75.1°	
1992-1999 ^b										
ALL STAGES	86.6	84.5	87.5	87.9	86.3	88.5	73.5	71.1	75.1	
LOCALIZED	97.0	94.0	98.0	97.6	95.0	98.4	89.7	85.7	91.9	
REGIONAL	78.7	78.7	78.7	80.3	80.8	80.2	66.0	66.3	65.7	
DISTANT	23.3	30.1	21.0	24.6	32.6	22.2	15.2	19.5	13.0	
UNSTAGED	56.0	64.4	53.6	56.3	68.3	53.2	52.0	49.1 ^d	53.6	
IN SITU ^f	100.0	99.9	100.0	100.0	100.0	100.0	100.0	99.5	100.0	
STAGE DISTRIBUTION (%)	1992-1999 ^b									
ALL STAGES										
Number of cases	116,587	28,845	87,742	99,078	22,955	76,123	9,801	3,453	6,348	
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%	
LOCALIZED	63	56	66	64	57	66	53	48	56	
REGIONAL	29	37	26	28	37	26	34	41	31	
DISTANT	6	5	6	5	5	6	9	8	9	
UNSTAGED	3	2	3	2	2	3	4	3	4	
E VD DDI METUD CUDUTUM	DAMES 1000 10	o o b								
5-YR RELATIVE SURVIVAL : AGE AT DIAGNOSIS:	RATES, 1992-19	999-								
<45	83.1	_	_	85.0	_	_	70.2	_	_	
45-54	86.9	_	_	88.5	_	_	73.6	_	_	
55-64	87.6	_	_	88.8	_	_	75.9	_	_	
65-74	88.9	_	_	89.6	_	_	79.4	_	_	
75+	85.8	_	_	86.7	_	_	67.4	_	_	
Under 65	86.2	_	_	87.8	_	_	73.1	_	_	
65 and over	87.7	_	_	88.5	_	_	74.9	_	_	
03 alla OVEL	0/./	_	_	00.5	=	=	/4.9	_	_	

Rates are based on End Results data from a series of hospital registries and one population-based registry.

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

The difference in rates between 1974-1976 and 1992-1999 is statistically significant (p<.05). The standard error of the survival rate is between 5 and 10 percentage points. The standard error of the survival rate is greater than 10 percentage points. In situ cases are not included in the All Stages group.

Statistic could not be calculated.

Table IV-8 FEMALE BREAST CANCER (Invasive)

INCIDENCE, DEATH, AND SURVIVAL RATES°

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 ^a	102.1	108.4	124.0	126.7	134.4	131.2	127.1	131.6	133.5	131.8	129.0	130.6	132.2	133.2	137.1	140.3	139.6	135.1
Mortality																		
U.S. ^b	31.7	32.2	33.0	32.9	32.7	33.2	33.2	33.1	32.7	31.6	31.4	30.9	30.6	29.5	28.2	27.5	26.6	26.7
SEER ^a	32.5	32.3	33.5	32.5	33.2	33.4	33.2	31.8	32.5	31.0	30.3	29.2	30.3	29.3	27.8	27.3	25.8	25.4
Relative Surviva	al Rates	s (SEER	a)															
1-year	94.7	95.5	95.9	96.3	96.8	96.8	97.0	97.0	97.3	97.4	97.2	97.6	97.3	97.1	97.5	97.7	97.6	
2-year	88.9	90.5	91.3	91.7	93.2	93.4	93.3	93.4	93.9	94.4	94.1	94.3	94.1	93.9	94.5	95.0		
3-year	83.4	85.1	86.3	87.0	89.2	90.0	90.0	89.8	90.2	91.1	90.9	91.1	91.4	91.1	92.1			
4-year	78.7	80.7	82.3	83.5	86.0	87.2	87.2	86.9	87.6	88.2	88.2	88.7	88.8	89.0				
5-year	74.9	76.9	78.8	80.5	83.2	84.6	84.7	84.7	85.3	85.9	85.9	86.6	86.6					
6-year	71.7	73.9	76.3	78.1	80.6	82.3	82.3	82.6	83.4	84.0	83.9	84.9						
7-year	68.9	71.0	74.1	75.8	78.3	80.4	80.6	80.6	81.6	82.3	82.1							
8-year	66.7	68.7	72.2	74.3	76.9	78.9	79.1	79.2	79.9	81.3								
9-year	64.6	66.7	70.2	72.6	75.0	77.1	77.7	77.8	78.4									
10-year	62.8	64.8	68.5	70.9	73.6	76.1	76.5	76.5										
11-year	61.2	62.9	67.1	69.7	71.9	74.8	75.4											
12-year	59.6	61.7	65.9	68.4	70.6	73.6												
13-year	58.5	60.5	65.0	67.2	69.3													
14-year	57.5	59.2	64.2	66.3														
15-year	56.3	58.3	63.0															
16-year	55.4	57.1																
17-year	54.4																	
18-year	53.6																	
19-year	52.8																	
20-year	52.1																	

Rates are from the SEER 9 areas.
Rates are from the NCHS public use data file.
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 IV-9 FEMALE BREAST CANCER (Under 50) (Invasive)

INCIDENCE, DEATH, AND SURVIVAL RATES°

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 ^a	39.3	40.0	44.1	44.4	45.4	44.0	43.4	45.5	47.0	43.4	42.7	42.2	42.9	43.3	43.2	44.9	43.2	43.2
Mortality																		
U.S. ^b	8.8	8.4	8.6	8.6	8.4	8.4	8.4	8.3	8.2	7.8	7.4	7.4	7.3	6.9	6.7	6.3	5.7	5.9
SEER ^a	8.7	8.2	8.2	8.5	8.2	8.1	7.7	8.1	8.0	6.8	7.1	6.4	7.0	6.6	6.3	5.6	5.3	5.6
Relative Surviva	l Rates	(SEERª	')															
1-year	96.8	97.6	97.6	97.9	98.1	98.5	98.2	97.5	98.5	98.4	98.0	98.4	98.0	97.7	98.1	98.5	98.6	
2-year	90.9	91.5	91.8	92.2	92.6	93.8	93.1	93.0	93.9	94.6	94.2	93.5	93.7	93.7	94.7	95.0		
3-year	84.6	85.6	85.8	86.0	87.1	89.2	88.8	88.3	89.9	90.6	90.1	89.1	89.8	90.6	91.5			
4-year	80.0	81.0	81.2	82.0	83.0	85.6	85.0	84.8	86.6	86.2	87.0	85.9	86.4	87.9				
5-year	76.1	77.1	77.9	78.3	79.5	82.3	82.1	82.1	83.7	83.5	84.5	83.5	83.6					
6-year	73.2	74.1	75.6	75.7	77.0	80.2	79.7	79.8	81.4	81.4	82.7	81.4						
7-year	70.7	71.5	73.4	73.0	74.6	78.2	77.9	78.2	79.2	79.8	80.8							
8-year	68.7	69.2	71.6	71.2	73.0	76.3	76.4	76.2	77.6	78.1								
9-year	66.8	67.4	69.7	70.1	71.0	74.9	74.7	75.0	76.6									
10-year	65.3	65.9	68.5	68.9	69.5	73.6	73.8	73.7										
11-year	63.9	64.5	67.6	67.8	67.9	72.4	72.7											
12-year	62.4	63.5	66.4	66.5	66.4	71.8												
13-year	61.3	62.4	65.4	65.5	65.4													
14-year	60.6	61.2	64.6	64.6														
15-year	59.7	60.4	63.5															
16-year	59.0	59.6																
17-year	58.4																	
18-year	57.8																	
19-year	57.1																	
20-year	56.3																	

Rates are from the SEER 9 areas.
Rates are from the NCHS public use data file.
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 IV-10 FEMALE BREAST CANCER (50 and Over) (Invasive)

INCIDENCE, DEATH, AND SURVIVAL RATES°

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 ^a	266.5	287.5	333.2	342.3	367.4	359.5	346.4	356.9	360.0	363.5	355.1	361.9	365.9	368.4	382.8	390.2	392.2	375.5
Mortality																		
U.S.b	91.8	94.3	96.9	96.3	96.1	98.2	98.2	98.1	96.9	94.2	94.2	92.6	91.5	88.5	84.5	83.1	81.2	81.3
SEER ^a	94.9	95.5	99.8	95.2	98.9	99.8	99.8	93.6	96.5	94.4	91.2	89.1	91.3	88.8	84.1	84.2	79.4	77.3
Relative Surviva	al Rates	s (SEER	a)															
1-year	94.0	94.9	95.4	95.8	96.5	96.3	96.7	96.8	96.9	97.1	96.9	97.3	97.0	96.9	97.4	97.4	97.2	
2-year	88.3	90.2	91.1	91.5	93.4	93.2	93.4	93.5	93.9	94.3	94.1	94.6	94.2	93.9	94.5	95.0		
3-year	82.9	84.9	86.5	87.4	89.8	90.3	90.4	90.4	90.3	91.3	91.3	91.8	92.0	91.3	92.3			
4-year	78.2	80.7	82.7	84.0	87.0	87.7	88.0	87.7	88.0	88.9	88.7	89.7	89.8	89.5				
5-year	74.5	76.9	79.1	81.2	84.5	85.4	85.6	85.7	86.0	86.8	86.4	87.8	87.8					
6-year	71.2	73.8	76.6	79.0	81.8	83.1	83.3	83.7	84.2	85.1	84.4	86.3						
7-year	68.3	70.9	74.4	76.9	79.7	81.3	81.7	81.7	82.6	83.4	82.8							
8-year	66.0	68.6	72.5	75.5	78.4	80.0	80.3	80.6	81.0	82.7								
9-year	63.7	66.5	70.5	73.7	76.7	78.2	79.1	79.2	79.3									
10-year	61.8	64.4	68.6	71.9	75.5	77.3	77.9	78.1										
11-year	60.1	62.4	66.9	70.7	73.8	76.1	76.9											
12-year	58.4	61.0	65.9	69.4	72.7	74.7												
13-year	57.2	59.9	65.1	68.3	71.4													
14-year	56.1	58.5	64.3	67.5														
15-year	54.8	57.6	63.2															
16-year	53.7	56.2																
17-year	52.5																	
18-year	51.6																	
19-year	50.6																	
20-year	49.9																	

Rates are from the SEER 9 areas.
Rates are from the NCHS public use data file.
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 IV-11 BREAST 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

Age		Mal	les			Fema	ales	
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.00	0.11	0.00	0.00	0.05	13.51
10	0.00	0.00	0.00	0.12	0.00	0.05	0.44	13.71
20	0.00	0.00	0.01	0.12	0.05	0.44	1.87	13.74
30	0.00	0.01	0.02	0.12	0.40	1.83	4.49	13.76
40	0.00	0.02	0.05	0.12	1.45	4.14	7.59	13.52
50	0.02	0.05	0.08	0.12	2.78	6.34	9.82	12.45
60	0.04	0.07	0.10	0.11	3.81	7.53	9.81	10.36
	time Risk o time Risk o	of Being Dia of Dying =	_	0.11% 0.03%	Lifetime Ris		3	= 13.51% 3.03%

Whites

Curr	ent							
Age		Mal	Les			Fema	les	
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.00	0.12	0.00	0.00	0.04	14.28
10	0.00	0.00	0.00	0.12	0.00	0.04	0.44	14.46
20	0.00	0.00	0.01	0.12	0.04	0.43	1.89	14.49
30	0.00	0.01	0.02	0.12	0.39	1.86	4.64	14.51
40	0.00	0.02	0.06	0.12	1.48	4.29	7.98	14.26
50	0.02	0.05	0.09	0.12	2.90	6.70	10.42	13.17
60	0.04	0.08	0.11	0.11	4.06	8.05	10.44	10.98
Life	time Risk o	of Being Dia	agnosed =	0.12%	Lifetime Ris	sk of Being	Diagnosed	= 14.28%
Life	time Risk o	of Dying =		0.03%	Lifetime Ris	sk of Dying	=	3.03%

Blacks

Curr	ent										
Age		Mai	les		Females						
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually			
0	0.00	0.00	0.00	0.14	0.00	0.00	0.07	10.14			
10	0.00	0.00	0.00	0.14	0.00	0.07	0.51	10.44			
20	0.00	0.00	0.01	0.14	0.07	0.51	1.86	10.47			
30	0.00	0.01	0.04	0.15	0.44	1.80	4.06	10.49			
40	0.01	0.04	0.08	0.15	1.39	3.70	6.34	10.25			
50	0.04	0.08	0.12	0.15	2.43	5.21	7.66	9.33			
60	0.05	0.09	0.11	0.14	3.09	5.80	7.26	7.65			
Life	time Risk o	of Being Dia	agnosed =	0.14%	Lifetime Ri	sk of Being	Diagnosed	= 10.14%			
Life	time Risk o	of Dying =		0.04%	Lifetime Ri	sk of Dying	=	3.24%			

Table TV-12 FEMALE BREAST CANCER (Invasive)

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

By Race/Ethnicity and Sex

<u>Incidence</u>^a

	Rate 1996-2000 Rate per 100,000 persons	Trend 1992-2000 APC (%)
	Females	Females
RACE/ETHNICITY		
All Races	135.0	0.8 ^d
White White Hispanic ^b White Non-Hispanic ^b	140.8 92.7 148.3	0.9 ^d 1.1 1.1 ^d
Black	121.7	0.2
Asian/Pacific Islander	97.2	2.1 ^d
Amer Ind/Alaska Nat	58.0	-3.7 ^d
Hispanic ^b	89.8	1.3 ^d

<u>Mortality</u>^c

	Rate per 100,000 persons	APC (%)
	Females	Females
RACE/ETHNICITY		
All Races	27.7	-2.4 ^d
White White Hispanic ^b White Non-Hispanic ^b	27.2 18.3 27.4	-2.6 ^d -1.5 ^d -2.5 ^d
Black	35.9	-1.1 ^d
Asian/Pacific Islander	12.5	-1.1
Amer Ind/Alaska Nat	14.9	-0.6
Hispanic ^b	17.9	-1.4 ^d

Rate 1996-2000

Trend 1992-2000

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.

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).

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. mortality, information is included for all states except Connecticut, Oklahoma, New York, and New Hampshire.

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

The APC is significantly different from zero (p<.05).

Table TV-13 FEMALE BREAST CANCER (In Situ)

AGE-ADJUSTED SEER INCIDENCE

By Race/Ethnicity and Sex

<u>Incidence</u>^a

	Rate 1996-2000 Rate per 100,000 persons	Trend 1992-2000 APC (%)
	Females	Females
RACE/ETHNICITY		
All Races	28.7	6.6°
White White Hispanic ^b White Non-Hispanic ^b	29.6 16.1 30.6	6.5° 7.0° 6.4°
Black	25.8	7.3°
Asian/Pacific Islander	23.2	8.4°
Amer Ind/Alaska Nat	9.6	-
Hispanic ^b	15.7	7.4°

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.

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).

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.

The APC is significantly different from zero (p<.05).

Table IV-14 FEMALE BREAST CANCER (Invasive)

	All	Races, Fer	males	White Females		es	Black Females		
	All	< 50	50+	All	<50	50+	All	<50	50+
ann Tuarnnian nama ³ 1006 000	0								
SEER INCIDENCE RATES ^a , 1996-200 REGISTRY	<u>0</u>								
12 registries	135.0	42.8	376.5	140.8	43.3	396.2	121.7	43.4	326.6
12 registries	135.0	42.0	370.5	140.0	43.3	390.2	121.7	43.4	320.0
11 registries	135.0	42.8	376.5	140.8	43.3	396.2	121.7	43.4	326.6
9 registries	137.1	43.6	381.9	142.0	44.1	398.6	120.8	43.9	322.1
San Francisco-Oakland	143.0	46.9	394.6	159.4	49.7	446.5	118.5	44.0	313.5
Connecticut	143.1	46.5	396.0	144.3	47.0	399.3	115.7	39.5	315.2
Metropolitan Detroit	136.1	43.8	378.0	140.2	44.1	391.7	123.9	43.3	335.1
Hawaii	131.1	45.2	356.1	152.1	50.6	417.6	_	_	_
Iowa	130.4	40.5	365.8	130.5	40.4	366.6	128.8	46.4	344.6
New Mexico	116.9	39.1	320.6	122.3	41.3	334.6	94.4	_	271.7
Seattle-Puget Sound	150.0	43.5	428.6	155.3	44.3	445.7	118.3	41.3	319.8
Utah	116.8	34.0	333.6	118.7	34.6	338.9	=	_	_
Metropolitan Atlanta	137.4	45.8	377.5	145.0	45.5	405.7	120.6	46.8	313.9
San Jose-Monterey	139.0	41.4	394.4	149.4	43.1	427.8	111.2	36.6	306.4
Los Angeles	127.4	40.8	354.3	134.2	40.9	378.7	124.5	42.2	339.8
SEER DEATH RATES ^b , 1996-2000									
REGISTRY									
12 registries	26.8	6.0	81.3	27.2	5.5	83.8	36.0	10.9	101.7
11 registries	26.8	6.0	81.3	27.2	5.5	83.8	36.0	10.9	101.6
9 registries	27.1	5.9	82.6	27.2	5.4	84.4	36.0	10.5	103.0
San Francisco-Oakland	26.6	6.2	80.0	29.0	5.7	90.0	35.1	12.0	95.6
Connecticut	27.8	5.7	85.7	27.5	5.5	85.2	33.1	8.2	98.5
Metropolitan Detroit	31.0	7.1	93.7	29.1	5.8	90.3	37.8	11.2	107.6
Hawaii	20.0	4.4	60.7	27.1	_	87.6	=	_	_
Iowa	26.5	5.3	82.3	26.4	5.2	82.0	37.4	_	113.0
New Mexico	25.4	6.6	74.7	26.1	7.0	76.3	40.2	_	_
Seattle-Puget Sound	26.1	5.0	81.4	26.5	4.9	83.0	39.4	10.9	114.0
Utah	23.7	4.9	73.0	23.8	4.9	73.1	_	_	-
Metropolitan Atlanta	29.1	6.6	87.9	27.2	4.8	85.7	35.1	10.1	100.6
San Jose-Monterey	24.7	4.9	76.5	27.2	5.1	85.2	28.0	_	_
Los Angeles	26.3	6.5	78.1	26.9	6.0	81.4	36.4	12.6	98.7

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

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.

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 IV-15 FEMALE BREAST CANCER (In Situ)

AGE-ADJUSTED SEER INCIDENCE RATES^a By Registry, Race and Age

	All Races, Females			Wh	White Females			Black Females		
	All	<50	50+	All	<50	50+	All	<50	50+	
SEER INCIDENCE RATES ^a , 1996-2000 REGISTRY										
12 registries	28.7	10.5	76.3	29.6	10.8	78.8	25.8	8.8	70.5	
11 registries	28.7	10.5	76.3	29.6	10.8	78.8	25.8	8.8	70.5	
9 registries	30.4	11.3	80.6	31.0	11.5	82.0	27.6	9.4	75.4	
San Francisco-Oakland	31.4	11.9	82.4	32.6	11.6	87.6	23.6	8.7	62.6	
Connecticut	37.1	15.6	93.4	37.3	15.6	94.2	28.8	12.3	72.0	
Metropolitan Detroit	37.6	14.2	98.9	38.7	15.2	100.2	33.9	10.9	94.0	
Hawaii	30.1	11.0	80.2	30.6	12.0	79.3	-	-	_	
Iowa	22.4	8.1	59.8	22.7	8.3	60.3	-	-	_	
New Mexico	20.4	7.3	54.5	21.6	7.9	57.3	-	-	_	
Seattle-Puget Sound	31.8	11.0	86.4	32.7	11.4	88.5	25.3	-	69.6	
Utah	21.0	6.8	58.4	21.4	6.9	59.4	-	-	_	
Metropolitan Atlanta	28.5	9.9	77.2	31.6	11.0	85.5	22.0	8.2	58.3	
San Jose-Monterey	30.0	10.8	80.2	31.5	11.1	84.7	24.8	-	-	
Los Angeles	22.8	8.0	61.6	24.2	8.4	65.7	21.1	7.1	57.8	

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

a 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.

⁻ Statistic could not be calculated or populations are inadequate.

Table IV-16 FEMALE BREAST CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH RATES BY STATE, 1996-2000

All Races, Females

State	Rate	SE	Rank	PD
TOTAL U.S.	27.7	0.06		
High Five States				
District of Columbia	37.6 ^{bc}	1.54	(01)	35.7
New Jersey	31.3 ^{bc}	0.36	(02)	13.0
Delaware	31.2 ^b	1.22	(03)	12.6
Illinois	30.3°	0.30	(04)	9.4
Louisiana	30.2°	0.51	(05)	9.0
Low Five States				
South Dakota	25.0	1.09	(47)	-9.7
Montana	24.9 ^b	1.00	(48)	-10.1
Colorado	24.0 ^{bc}	0.50	(49)	-13.4
Utah	23.7 ^{bc}	0.76	(50)	-14.4
Hawaii	20.0 ^{bc}	0.80	(51)	-27.8

State	Rate	SE	Rank	PD_	State	Rate	SE	Rank	PD
Alabama	26.5	0.46	(34)	-4.3	Montana	24.9 ^b	1.00	(48)	-10.1
Alaska	25.2	1.74	(46)	-9.0	Nebraska	25.6	0.73	(42)	-7.6
Arizona	25.2°	0.44	(45)	-9.0	Nevada	26.4	0.78	(36)	-4.7
Arkansas	25.4°	0.58	(44)	-8.3	New Hampshire	28.1	0.93	(16)	1.4
California	26.5°	0.18	(33)	-4.3	New Jersey	31.3 ^{bc}	0.36	(02)	13.0
Colorado	24.0 ^{bc}	0.50	(49)	-13.4	New Mexico	25.4	0.76	(43)	-8.3
Connecticut	27.8	0.53	(17)	0.4	New York	30.0°	0.24	(06)	8.3
Delaware	31.2 ^b	1.22	(03)	12.6	North Carolina	27.0	0.36	(25)	-2.5
District of Columbia	37.6 ^{bc}	1.54	(01)	35.7	North Dakota	26.6	1.20	(30)	-4.0
Florida	25.6°	0.23	(41)	-7.6	Ohio	29.8°	0.30	(07)	7.6
Georgia	27.1	0.38	(24)	-2.2	Oklahoma	26.8	0.53	(26)	-3.2
Hawaii	20.0 ^{bc}	0.80	(51)	-27.8	Oregon	26.6	0.54	(29)	-4.0
Idaho	26.6	0.93	(28)	-4.0	Pennsylvania	29.6°	0.28	(09)	6.9
Illinois	30.3°	0.30	(04)	9.4	Rhode Island	29.3	0.97	(10)	5.8
Indiana	28.4	0.42	(14)	2.5	South Carolina	27.8	0.51	(18)	0.4
Iowa	26.5	0.55	(32)	-4.3	South Dakota	25.0	1.09	(47)	-9.7
Kansas	26.2	0.60	(38)	-5.4	Tennessee	27.3	0.42	(20)	-1.4
Kentucky	27.3	0.50	(21)	-1.4	Texas	26.1°	0.24	(39)	-5.8
Louisiana	30.2°	0.51	(05)	9.0	Utah	23.7 ^{bc}	0.76	(50)	-14.4
Maine	26.4	0.83	(35)	-4.7	Vermont	27.2	1.26	(22)	-1.8
Maryland	29.6°	0.46	(80)	6.9	Virginia	28.6	0.40	(13)	3.2
Massachusetts	28.7	0.40	(11)	3.6	Washington	25.8°	0.42	(40)	-6.9
Michigan	28.4	0.33	(15)	2.5	West Virginia	27.8	0.70	(19)	0.4
Minnesota	26.7	0.46	(27)	-3.6	Wisconsin	26.5	0.42	(31)	-4.3
Mississippi	28.6	0.62	(12)	3.2	Wyoming	26.3	1.46	(37)	-5.1
Missouri	27.2	0.41	(23)	-1.8					

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.

Absolute percent difference between state rate and total U.S. rate is 10% or more. Difference between state rate and total U.S. rate is statistically significant (p<=.0002). С

SE Standard error of the rate.

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

Table IV-17 BREAST CANCER (Invasive)

Estimated United States Cancer Prevalence Counts^a 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 ^f	<u>Complete</u> ^g
Race/Sex									
All Races ^b	774,287	529,022	357,116	192,249	127,139	1,303,309	1,979,813	+	+
Males	4,591	2,707	1,714	930	487	7,298	10,429	+	+
Females	769,696	526,315	355,402	191,319	126,652	1,296,011	1,969,384	228,120	2,197,504
White ^b	682,617	475,623	325,741	175,439	117,057	1,158,240	1,776,477	+	+
Males	3,985	2,382	1,529	863	458	6,367	9,217	+	+
Females	678,632	473,241	324,212	174,576	116,599	1,151,873	1,767,260	212,145	1,979,405
Black ^b	64,797	38,575	23,047	12,512	7,251	103,372	146,182	+	+
Males	476	· –	· –	· –	, –	713	960	+	+
Females	64,321	38,338	22,887	12,451	7,225	102,659	145,222	14,350	159,572
Asian/Pacific Islander ^c	18,403	10,246	+	+	+	28,649	+	+	+
Males	70	55	+	+	+	125	+	+	+
Females	18,333	10,191	+	+	+	28,524	+	+	+
Hispanic ^d	32,491	19,602	+	+	+	52,093	+	+	+
Males	143	, _	+	+	+	212	+	+	+
Females	32,348	19,533	+	+	+	51,881	+	+	+

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

_	Age Specific (Crude)									Age-Adjustede	
Age at Prevalence	All Ages	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	+08	All Ages
Race/Sex											
All Races ^c	0.4150%	_	=	0.0055%	0.0744%	0.3810%	0.9432%	1.3844%	1.8618%	2.0733%	0.4559%
Males	0.0048%	_	_	_	_	0.0022%	0.0085%	0.0205%	0.0300%	0.0444%	0.0061%
Females	0.8150%	_	-	0.0113%	0.1503%	0.7530%	1.8320%	2.5879%	3.2275%	3.1290%	0.8278%
White ^c Males Females	0.4564% 0.0050% 0.9037%	- - -	- - -	0.0050% - 0.0104%	0.0735% - 0.1510%	0.3863% 0.0023% 0.7753%	0.9790% 0.0076% 1.9257%	1.4735% 0.0211% 2.7867%	1.9851% 0.0305% 3.4552%	2.1902% 0.0452% 3.2864%	0.4778% 0.0061% 0.8744%
Black ^c Males Females	0.2787% 0.0046% 0.5270%	- - -	- - -	0.0095% - 0.0180%	0.0892% - 0.1683%	0.3613% - 0.6750%	0.8436% 0.0178% 1.5367%	1.1468% - 2.0354%	1.4813% - 2.4327%	1.6075% - 2.3020%	0.3905% 0.0082% 0.6740%
Asian/Pacific Islander' Males Females	0.2803% 0.0028% 0.5408%	- - -	- - -	0.0054% - 0.0106%	0.0650% - 0.1260%	0.3582% - 0.6770%	0.7525% - 1.4169%	0.9437% - 1.7012%	1.1177% - 1.9495%	1.0866% - 1.8276%	0.3206% 0.0038% 0.5826%
Hispanic ^d Males Females	0.1478% 0.0011% 0.3015%	- - -	- - -	0.0043% - 0.0093%	0.0495% - 0.1048%	0.2642% - 0.5272%	0.6028% - 1.1475%	0.8906% - 1.6094%	1.2280% - 2.0937%	1.3950% - 2.1181%	0.3024% 0.0035% 0.5416%

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.

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

Percentages are age-adjusted to the 2000 US standard population by 5-year age groups.

(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.

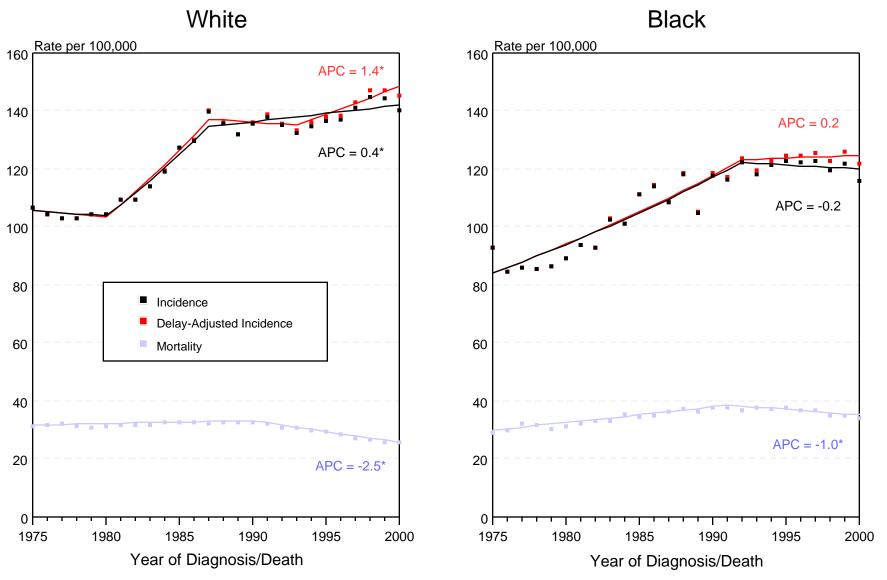
Not available.

bcd

f g

Not available.

SEER Incidence, Delay Adjusted Incidence and US Death Rates+ Female Breast Cancer, by Race



- + 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+ Female Breast Cancer, by Age and Race

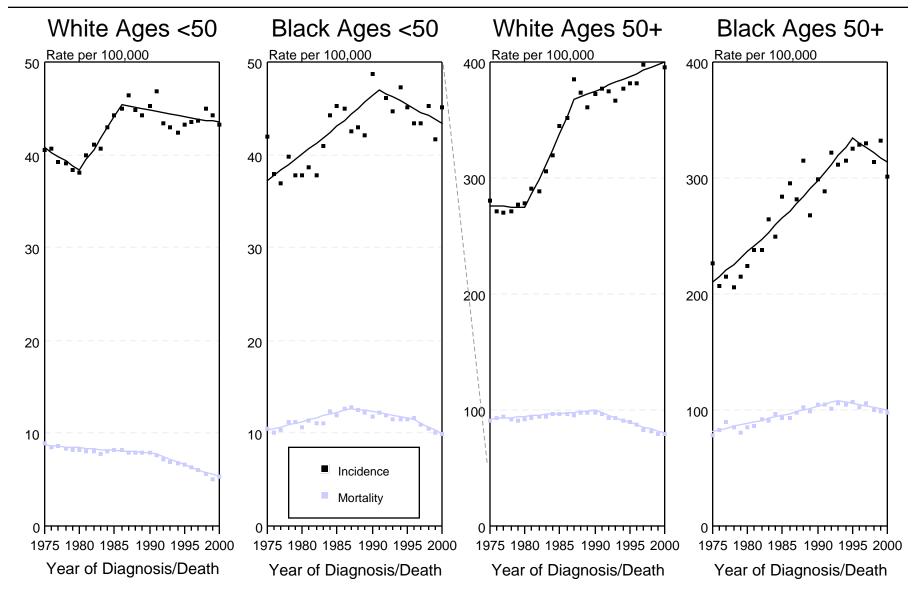
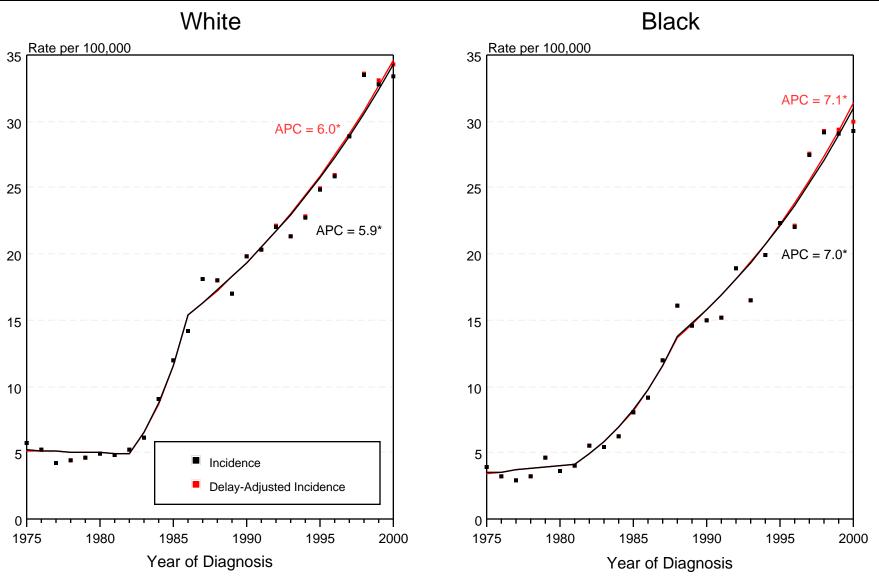


Figure IV-2

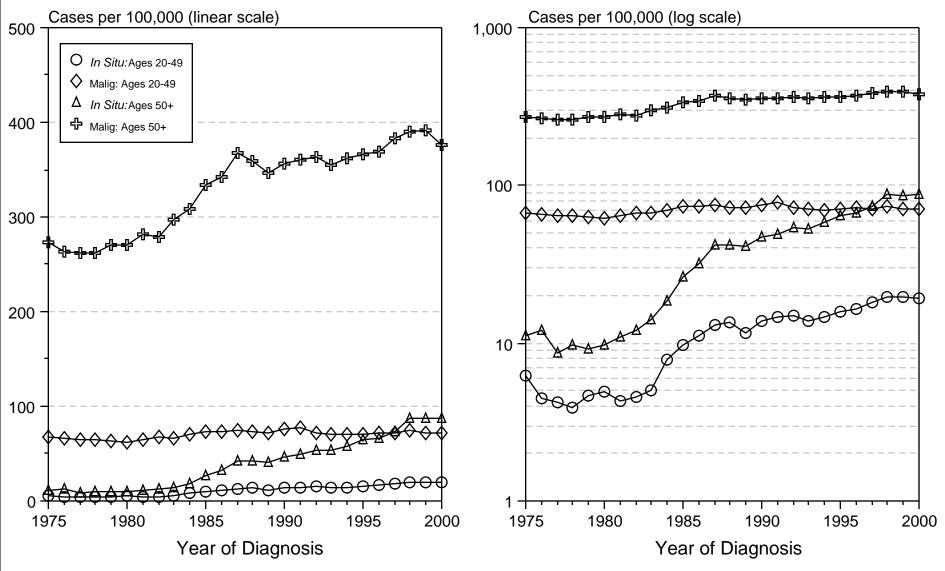
⁺ Source: SEER 9 areas and NCHS public use data file. Rates are age-adjusted to the 2000 US standard million population by 5-year age groups. Regression lines are calculated using the Joinpoint Regression Program.

SEER Incidence and Delay Adjusted Incidence Rates+ Female Breast Cancer (In Situ), by Race



- + Source: SEER 9 areas. 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).

Breast Cancer Incidence Rates, 1975-2000 by Age, *In Situ* vs Malignant All Races, Female



Source: SEER 9 areas. Rates are age-adjusted to 2000 US standard million population by 5-year age groups.

Breast Cancer Incidence Rates, 1975-2000 by Age, *In Situ* vs Malignant White Female

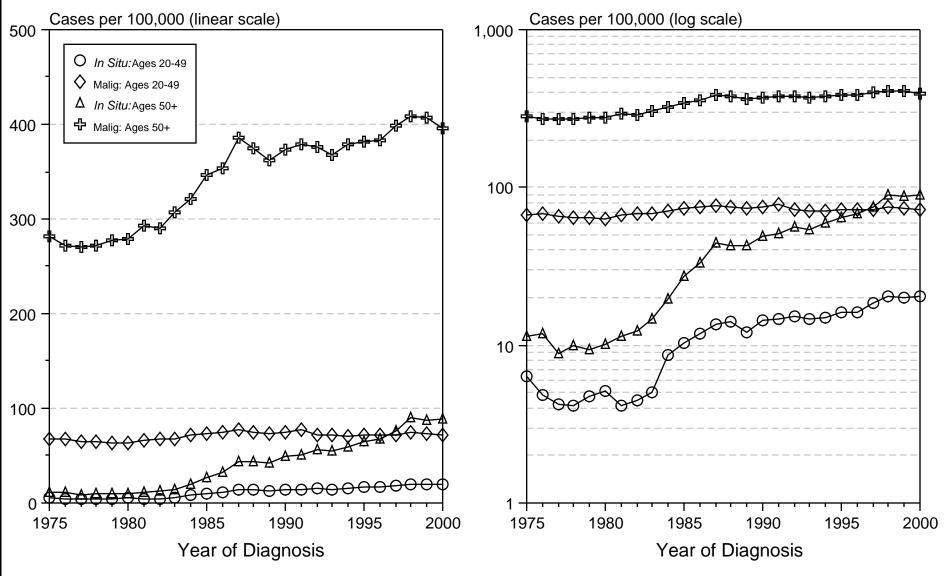


Figure IV-5

Source: SEER 9 areas. Rates are age-adjusted to 2000 US standard million population by 5-year age groups.

Breast Cancer Incidence Rates, 1975-2000 by Age, *In Situ* vs Malignant Black Female

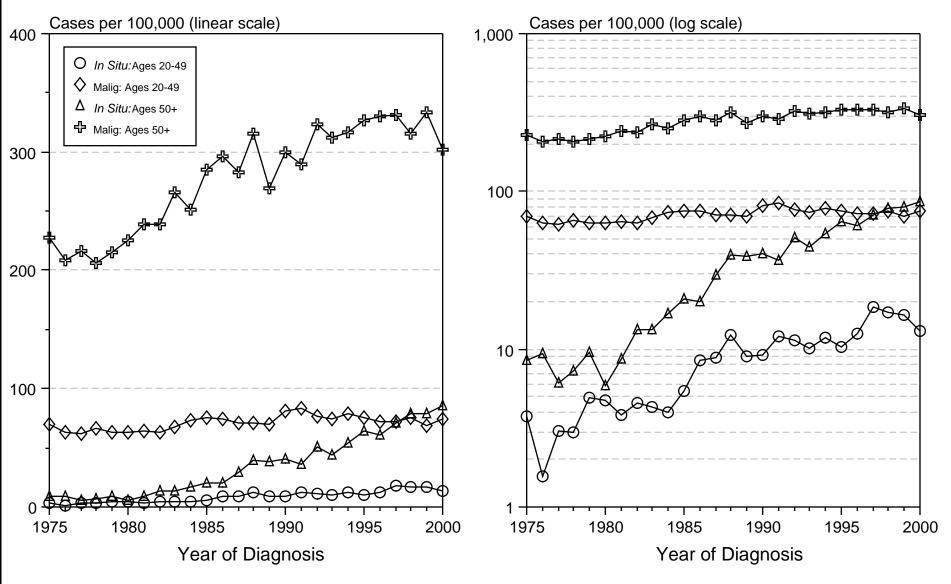
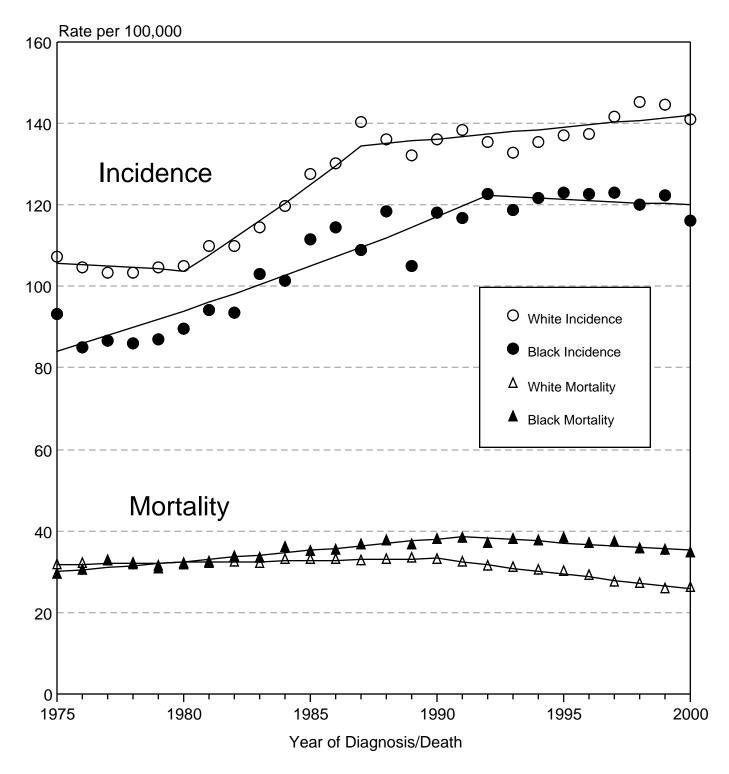


Figure IV-6

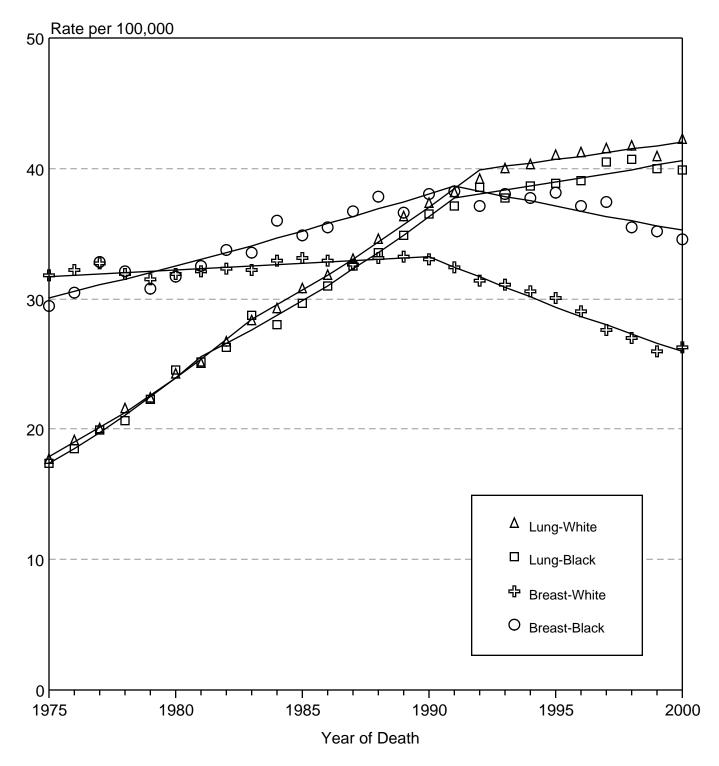
Source: SEER 9 areas. Rates are age-adjusted to 2000 US standard million population by 5-year age groups.

Breast Cancer Incidence & Mortality White Females vs Black Females



Source: 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.

Breast vs Lung Cancer Mortality White Females vs Black Females United States, 1975-2000



Source: 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.