

Table VI-1  
COLON AND RECTUM CANCER (Invasive)

TRENDS IN SEER INCIDENCE<sup>a</sup> AND U.S. MORTALITY<sup>b</sup> USING THE JOINPOINT REGRESSION PROGRAM, 1973-1999  
WITH UP TO THREE JOINPOINTS BY RACE AND SEX

	All Races		Whites		Blacks	
	Year	APC	Year	APC	Year	APC
<u>SEER Cancer Incidence<sup>a</sup></u>						
Sex - Male and Female	1973-85	0.9★	1973-85	0.9★	1973-80	3.6★
	1985-95	-1.8★	1985-95	-1.9★	1980-99	-0.3
	1995-99	0.3	1995-99	0.3		
Sex - Male	1973-86	1.1★	1973-86	1.1★	1973-80	4.9★
	1986-95	-2.1★	1986-95	-2.3★	1980-99	-0.3
	1995-99	-0.1	1995-99	0.0		
Sex - Female	1973-84	0.6★	1973-84	0.7★	1973-80	2.7★
	1984-95	-1.7★	1984-94	-2.0★	1980-99	-0.3
	1995-99	0.7	1994-99	0.2		
<u>U.S. Cancer Mortality<sup>b</sup></u>						
Sex - Male and Female	1973-78	0.0	1973-78	-0.1	1973-85	1.1★
	1978-85	-0.8★	1978-84	-0.8★	1985-99	-0.3★
	1985-99	-1.7★	1984-99	-1.8★		
Sex - Male	1973-79	0.5	1973-79	0.4	1973-90	1.3★
	1979-87	-0.6★	1979-87	-0.8★	1990-99	-1.0★
	1987-99	-2.0★	1987-99	-2.1★		
Sex - Female	1973-80	-0.5★	1973-80	-0.6★	1973-85	0.7★
	1980-99	-1.7★	1980-99	-1.8★	1985-99	-0.5★

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

Table VI-2  
COLON CANCER (Invasive) AND RECTUM CANCER (Invasive)

TRENDS IN SEER INCIDENCE<sup>a</sup> USING THE JOINPOINT REGRESSION PROGRAM, 1973-1999  
WITH UP TO THREE JOINPOINTS BY RACE AND SEX

	All Races		Whites		Blacks	
	Year	APC	Year	APC	Year	APC
<u>SEER Cancer Incidence for Colon</u>						
Sex - Male and Female	1973-85	1.2★	1973-84	1.3★	1973-80	4.2★
	1985-95	-1.7★	1984-99	-1.4★	1980-99	-0.3
	1995-99	-0.2				
Sex - Male	1973-85	1.8★	1973-85	1.7★	1973-89	1.9★
	1985-99	-1.6★	1985-99	-1.7★	1989-99	-1.6★
Sex - Female	1973-83	0.9★	1973-83	0.9★	1973-80	3.8★
	1983-99	-1.2★	1983-99	-1.3★	1980-99	-0.3
<u>SEER Cancer Incidence for Rectum</u>						
Sex - Male and Female	1973-85	0.0	1973-85	0.0	1973-99	0.0
	1985-95	-2.0★	1985-95	-2.2★		
	1995-99	1.5	1995-99	1.5		
Sex - Male	1973-89	-0.2	1973-89	-0.2	1973-80	4.6★
	1989-94	-3.6★	1989-94	-4.0★	1980-99	-0.4
	1994-99	0.9	1994-99	0.9		
Sex - Female	1973-84	0.0	1973-84	0.1	1973-99	-0.2
	1984-95	-2.2★	1984-94	-2.5★		
	1995-99	2.1	1994-99	1.1		

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.

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

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

Table VI-3  
COLON AND RECTUM CANCER (Invasive)

SEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES\$, 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>									
1973	57.8	66.7	51.6	58.4	68.0	51.9	52.6	52.7	52.1
1974	59.6	70.5	52.1	60.6	72.1	52.7	50.2	58.1	44.9
1975	59.4	68.2	53.7	60.1	69.7	54.0	56.6	58.9	54.6
1976	61.3	71.7	54.1	62.0	72.6	54.9	55.1	58.5	51.3
1977	62.4	73.5	54.9	63.1	74.3	55.6	60.6	75.8	51.3
1978	62.0	72.3	55.2	62.7	73.9	55.4	62.2	65.7	60.6
1979	62.3	74.1	54.5	62.8	75.0	54.9	58.8	62.2	56.3
1980	63.7	74.5	56.5	63.8	74.7	56.7	70.2	79.2	63.6
1981	64.2	75.8	56.4	64.8	76.7	57.1	62.6	72.8	55.8
1982	62.8	75.1	54.5	63.4	76.2	55.0	61.0	68.7	55.8
1983	63.6	75.6	55.5	64.3	76.6	56.0	66.6	75.9	60.7
1984	64.8	77.6	56.1	65.8	79.2	56.7	62.0	69.8	57.8
1985	66.2	79.0	57.4	67.1	80.0	58.3	63.9	74.0	56.5
1986	64.2	77.8	54.7	64.5	78.8	54.7	64.2	72.2	58.5
1987	62.7	77.4	52.7	62.8	78.0	52.6	65.9	76.8	58.9
1988	61.4	75.3	51.8	61.6	75.8	51.7	62.9	72.3	56.6
1989	61.7	74.9	52.5	61.9	75.2	52.8	64.2	79.2	54.3
1990	60.7	74.4	51.3	60.8	74.8	51.1	66.5	74.5	61.5
1991	59.5	72.9	50.1	59.4	73.3	49.7	65.5	75.6	58.4
1992	58.0	70.4	49.2	58.0	70.8	48.8	65.2	77.5	57.4
1993	56.8	68.3	48.4	56.4	68.1	47.9	64.3	77.2	55.3
1994	55.7	66.2	47.8	55.5	66.3	47.4	63.9	73.9	57.5
1995	54.0	63.3	47.1	53.6	62.9	46.7	61.9	69.1	56.9
1996	54.6	65.0	46.7	54.4	65.2	46.3	57.8	64.1	53.1
1997	56.2	67.5	47.9	56.0	67.1	47.9	63.9	75.2	56.1
1998	56.3	65.9	49.1	56.1	66.1	48.7	61.6	69.7	56.0
1999	54.3	63.7	47.1	53.8	63.6	46.2	61.7	67.1	58.0
<u>AGE-ADJUSTED RATES, 1995-99</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	55.1	65.1	47.6	54.8	65.0	47.1	61.4	69.0	56.1
Under 65	18.6	21.5	15.9	17.8	20.6	15.1	24.4	27.9	21.6
65 and over	307.3	366.4	266.8	310.4	371.6	268.6	317.0	352.8	294.4
All ages (world std.) <sup>æ</sup>	33.3	39.3	28.4	32.9	38.9	27.9	38.6	43.5	35.0
<u>AGE-SPECIFIC RATES, 1995-99</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19	-	-	-	-	-	-	-	-	-
20-24	0.7	0.7	0.7	0.6	-	-	-	-	-
25-29	1.9	1.9	2.0	1.7	1.7	1.7	2.3	-	-
30-34	3.6	3.8	3.4	3.4	3.4	3.3	4.4	-	4.6
35-39	6.7	7.1	6.3	6.3	6.7	5.8	7.8	7.7	7.8
40-44	12.5	13.6	11.4	11.8	12.9	10.8	15.5	17.7	13.6
45-49	25.7	27.0	24.4	23.8	25.3	22.4	35.2	36.3	34.2
50-54	48.9	56.7	41.3	45.3	53.2	37.4	72.4	82.2	64.2
55-59	85.3	100.4	71.1	83.3	99.0	68.2	110.9	123.7	100.6
60-64	133.2	161.3	107.7	131.0	155.5	108.1	166.2	208.5	133.6
65-69	194.3	237.2	157.9	194.6	238.5	156.7	209.2	222.9	198.6
70-74	267.6	319.5	227.2	269.9	323.2	228.0	286.1	321.8	260.5
75-79	338.5	403.0	292.6	341.4	408.2	294.1	369.7	415.6	339.2
80-84	424.0	504.1	376.3	428.6	514.0	378.4	437.0	490.1	407.5
85+	450.1	525.7	418.0	459.4	537.2	428.0	388.8	435.8	367.4

<sup>\$</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>æ</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 VI-4  
COLON CANCER (Invasive)

SEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES\$, 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>									
1973	39.9	43.6	37.6	40.2	44.4	37.8	38.7	39.5	37.9
1974	41.7	47.2	38.2	42.3	48.1	38.7	36.9	43.7	32.3
1975	41.3	45.3	38.9	41.7	46.1	39.1	42.6	43.7	41.6
1976	43.1	47.8	39.9	43.4	48.1	40.3	43.1	43.6	41.9
1977	44.0	49.6	40.3	44.6	50.0	41.1	45.3	58.4	37.5
1978	43.8	49.1	40.6	44.1	49.9	40.5	47.8	48.8	47.9
1979	43.7	50.2	39.6	44.0	50.9	39.6	44.9	46.1	44.1
1980	45.5	50.6	42.3	45.5	50.8	42.3	54.9	58.0	52.6
1981	45.4	51.4	41.6	45.8	52.0	42.0	46.7	50.6	44.2
1982	45.7	53.4	40.7	46.0	54.0	40.8	48.2	52.3	45.2
1983	46.1	53.0	41.6	46.4	53.5	41.9	50.1	58.6	44.9
1984	46.5	54.6	41.3	47.0	55.5	41.5	48.5	53.9	45.8
1985	47.9	54.9	43.0	48.3	55.5	43.6	49.9	57.2	44.5
1986	46.8	54.4	41.5	47.0	55.1	41.4	49.0	54.5	45.5
1987	45.2	54.4	39.1	45.1	54.4	39.0	51.0	59.4	45.4
1988	44.3	52.6	38.7	44.3	52.9	38.4	48.9	54.1	45.4
1989	44.4	52.4	39.0	44.5	52.4	39.3	48.8	60.3	41.4
1990	44.2	51.9	38.9	44.1	51.9	38.8	52.1	58.1	48.5
1991	43.6	51.8	37.9	43.4	51.9	37.4	51.6	57.1	47.9
1992	42.3	49.6	37.2	42.1	49.8	36.8	50.5	59.4	45.1
1993	41.6	48.8	36.4	41.1	48.5	35.8	51.2	59.6	45.5
1994	40.8	46.8	36.4	40.7	47.0	36.0	49.6	55.7	46.0
1995	39.6	44.6	36.0	39.2	44.3	35.6	48.7	52.9	46.2
1996	39.2	44.9	34.9	39.1	45.3	34.4	44.1	46.5	42.3
1997	40.9	47.8	35.9	40.8	47.6	36.1	48.7	57.1	42.7
1998	40.7	46.0	36.9	40.5	46.2	36.4	47.0	51.5	44.2
1999	38.9	44.0	35.1	38.5	43.8	34.3	47.4	51.2	44.8
<u>AGE-ADJUSTED RATES, 1995-99</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	39.9	45.5	35.8	39.6	45.4	35.3	47.2	51.8	44.0
Under 65	12.0	13.4	10.7	11.4	12.8	10.0	17.4	19.2	16.1
65 and over	232.6	267.2	209.1	234.7	270.8	210.2	252.7	277.7	237.2
All ages (world std.) <sup>ë</sup>	23.4	26.6	20.8	23.0	26.3	20.3	29.1	31.9	27.1
<u>AGE-SPECIFIC RATES, 1995-99</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19	-	-	-	-	-	-	-	-	-
20-24	0.5	-	-	-	-	-	-	-	-
25-29	1.2	1.2	1.3	1.1	1.2	1.0	-	-	-
30-34	2.3	2.4	2.1	2.1	2.3	1.9	3.2	-	3.8
35-39	4.2	4.3	4.1	3.9	4.2	3.7	5.2	4.3	5.9
40-44	7.6	8.5	6.8	7.1	7.8	6.3	11.0	13.2	9.2
45-49	15.6	15.3	15.8	14.4	14.6	14.1	23.7	21.3	25.8
50-54	30.8	34.1	27.5	28.2	32.0	24.5	51.1	56.8	46.3
55-59	55.0	62.5	47.9	53.2	61.0	45.6	78.6	85.0	73.5
60-64	90.6	105.7	76.9	88.3	101.6	76.0	123.8	150.1	103.6
65-69	135.8	159.1	116.1	135.0	158.6	114.6	162.2	170.3	156.0
70-74	197.6	224.4	176.7	198.8	227.2	176.4	225.6	245.2	211.6
75-79	257.5	298.9	228.1	259.6	302.0	229.6	292.0	327.8	268.2
80-84	330.3	380.5	300.4	334.0	388.1	302.3	356.2	393.9	335.2
85+	362.2	408.4	342.6	370.5	418.8	350.9	320.7	361.3	302.2

<sup>\$</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>ë</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 VI-5  
RECTUM CANCER (Invasive)

SEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES\$, 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>									
1973	17.9	23.1	14.0	18.2	23.7	14.1	13.9	13.2	14.2
1974	17.9	23.3	13.9	18.2	24.0	14.0	13.4	14.4	12.6
1975	18.1	22.9	14.7	18.4	23.5	14.8	14.0	15.2	13.0
1976	18.3	24.0	14.2	18.7	24.4	14.6	12.0	14.9	9.4
1977	18.4	23.9	14.5	18.5	24.3	14.5	15.3	17.4	13.8
1978	18.1	23.2	14.6	18.6	24.0	14.9	14.4	16.9	12.8
1979	18.6	23.9	14.9	18.8	24.1	15.2	13.8	16.1	12.2
1980	18.1	23.8	14.2	18.3	23.8	14.5	15.3	21.2	10.9
1981	18.8	24.4	14.8	19.0	24.7	15.0	15.9	22.2	11.6
1982	17.0	21.7	13.8	17.4	22.2	14.2	12.8	16.3	10.6
1983	17.5	22.6	13.9	17.8	23.1	14.1	16.5	17.3	15.8
1984	18.3	23.0	14.7	18.8	23.7	15.1	13.5	15.9	12.0
1985	18.4	24.1	14.4	18.7	24.5	14.7	14.0	16.8	12.1
1986	17.4	23.4	13.1	17.5	23.7	13.2	15.2	17.7	13.1
1987	17.5	23.0	13.6	17.7	23.6	13.6	14.9	17.4	13.5
1988	17.1	22.6	13.1	17.3	22.9	13.3	14.1	18.1	11.2
1989	17.3	22.5	13.5	17.5	22.9	13.5	15.4	18.9	12.9
1990	16.5	22.5	12.3	16.7	22.9	12.3	14.4	16.4	13.0
1991	15.9	21.1	12.1	16.0	21.3	12.2	13.8	18.4	10.5
1992	15.7	20.8	12.0	15.8	21.0	12.0	14.7	18.1	12.3
1993	15.2	19.5	12.0	15.3	19.5	12.2	13.1	17.7	9.9
1994	14.8	19.4	11.4	14.8	19.3	11.4	14.3	18.2	11.6
1995	14.4	18.7	11.1	14.3	18.6	11.1	13.2	16.2	10.8
1996	15.4	20.1	11.8	15.4	19.9	11.9	13.7	17.6	10.9
1997	15.3	19.6	11.9	15.2	19.5	11.8	15.2	18.0	13.4
1998	15.6	19.9	12.3	15.6	19.9	12.3	14.6	18.1	11.8
1999	15.4	19.7	12.0	15.3	19.8	11.8	14.3	15.9	13.2
<u>AGE-ADJUSTED RATES, 1995-99</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	15.2	19.6	11.8	15.2	19.5	11.8	14.2	17.2	12.1
Under 65	6.6	8.1	5.2	6.4	7.8	5.1	7.0	8.8	5.5
65 and over	74.8	99.2	57.8	75.8	100.8	58.4	64.3	75.0	57.2
All ages (world std.) <sup>ë</sup>	9.9	12.7	7.6	9.9	12.6	7.6	9.5	11.6	7.8
<u>AGE-SPECIFIC RATES, 1995-99</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19	-	-	-	-	-	-	-	-	-
20-24	-	-	-	-	-	-	-	-	-
25-29	0.7	0.7	0.7	0.6	-	0.7	-	-	-
30-34	1.3	1.4	1.3	1.3	1.1	1.4	-	-	-
35-39	2.5	2.8	2.2	2.3	2.6	2.1	2.6	-	-
40-44	4.9	5.2	4.6	4.8	5.1	4.4	4.5	4.6	4.4
45-49	10.1	11.7	8.6	9.5	10.7	8.2	11.5	15.0	8.5
50-54	18.1	22.5	13.8	17.1	21.3	12.9	21.4	25.4	18.0
55-59	30.3	37.9	23.2	30.2	38.0	22.6	32.3	38.8	27.1
60-64	42.6	55.6	30.8	42.6	53.9	32.1	42.4	58.4	30.0
65-69	58.5	78.2	41.8	59.6	79.9	42.1	47.0	52.6	42.6
70-74	70.1	95.1	50.5	71.2	96.0	51.6	60.4	76.7	48.8
75-79	81.0	104.1	64.5	81.7	106.2	64.5	77.7	87.8	71.0
80-84	93.7	123.6	75.9	94.5	125.9	76.1	80.8	96.2	72.3
85+	87.9	117.3	75.4	89.0	118.4	77.1	68.1	74.6	65.1

<sup>\$</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>ë</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 VI-6  
COLON AND RECTUM 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>									
YEAR OF DEATH:									
1973	28.2	32.3	25.5	28.5	32.9	25.6	26.2	27.5	25.2
1974	28.7	33.4	25.5	28.9	33.8	25.7	26.4	29.4	24.2
1975	28.1	32.8	25.0	28.3	33.2	25.1	26.8	30.1	24.6
1976	28.6	33.3	25.4	28.7	33.8	25.4	28.2	31.2	26.3
1977	28.2	33.2	24.9	28.3	33.5	25.0	27.6	31.4	24.9
1978	28.5	33.7	25.1	28.7	34.1	25.2	27.9	31.2	25.7
1979	28.1	33.6	24.6	28.2	33.9	24.6	28.2	31.6	26.0
1980	28.1	33.7	24.4	28.1	34.0	24.3	28.8	33.2	25.9
1981	27.5	33.0	24.0	27.5	33.2	23.9	28.9	32.8	26.3
1982	27.2	33.0	23.6	27.2	33.1	23.4	29.1	33.7	26.1
1983	27.1	33.1	23.2	27.1	33.3	23.1	28.7	32.9	25.8
1984	27.3	33.0	23.6	27.3	33.1	23.5	29.6	34.6	26.2
1985	26.9	32.7	23.1	26.8	32.7	22.8	30.5	34.1	28.0
1986	26.2	32.0	22.3	26.0	32.0	22.1	29.8	35.4	26.3
1987	25.9	31.9	22.0	25.7	31.8	21.6	29.8	35.1	26.5
1988	25.3	31.1	21.5	25.1	31.0	21.2	29.2	34.3	25.9
1989	25.0	30.8	21.2	24.7	30.5	20.8	30.1	36.4	26.1
1990	24.7	30.8	20.6	24.3	30.5	20.2	30.7	37.5	26.6
1991	24.0	29.6	20.3	23.7	29.4	19.9	30.0	35.6	26.5
1992	23.7	29.3	19.9	23.3	29.0	19.5	29.5	36.0	25.5
1993	23.4	28.5	19.9	23.0	28.2	19.4	29.8	35.5	26.2
1994	23.0	28.2	19.4	22.6	27.9	19.0	29.1	35.3	25.1
1995	22.7	27.6	19.3	22.2	27.2	18.8	29.7	35.9	25.8
1996	22.0	26.7	18.7	21.5	26.3	18.2	28.8	34.1	25.2
1997	21.6	26.2	18.3	21.1	25.7	17.8	29.1	34.6	25.2
1998	21.4	25.6	18.3	20.9	25.1	17.7	28.6	33.4	25.3
1999	21.1	25.4	18.0	20.6	25.0	17.4	28.8	34.0	25.3
<u>AGE-ADJUSTED RATES, 1995-99</u>									
AGE AT DEATH:									
All ages	21.7	26.3	18.5	21.3	25.8	18.0	29.0	34.4	25.4
Under 65	5.9	7.0	4.9	5.6	6.7	4.6	9.2	11.2	7.7
65 and over	131.1	159.3	112.4	129.5	158.2	110.3	165.3	195.0	147.2
All ages (world std.) <sup>ö</sup>	12.2	14.8	10.2	11.8	14.4	9.8	16.9	20.3	14.5
<u>AGE-SPECIFIC RATES, 1995-99</u>									
AGE AT DEATH:									
0-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19	0.1	0.1	0.1	0.1	0.1	-	-	-	-
20-24	0.2	0.2	0.2	0.2	0.2	0.1	0.3	-	-
25-29	0.5	0.5	0.4	0.4	0.5	0.4	0.7	0.9	0.5
30-34	1.0	1.1	0.9	0.9	0.9	0.8	1.6	2.0	1.2
35-39	1.9	1.9	1.8	1.7	1.8	1.6	3.3	3.4	3.1
40-44	3.9	4.1	3.6	3.6	3.8	3.3	6.3	6.8	5.8
45-49	8.1	9.0	7.1	7.4	8.4	6.5	13.6	15.3	12.1
50-54	15.0	17.6	12.6	14.1	16.6	11.6	24.6	29.2	20.9
55-59	27.0	32.4	22.1	25.8	30.9	21.0	41.6	52.3	33.3
60-64	45.3	56.2	35.5	43.7	54.3	34.0	66.1	83.0	53.5
65-69	67.5	85.0	52.8	66.1	83.9	50.9	88.5	106.8	74.8
70-74	97.4	121.8	78.6	95.1	119.6	75.9	136.3	164.6	116.8
75-79	131.8	161.6	110.9	130.1	159.8	109.0	168.7	203.9	146.4
80-84	185.8	226.7	161.8	183.5	225.4	159.0	236.2	278.3	214.3
85+	276.4	319.2	259.0	276.5	321.8	258.3	307.0	340.8	293.1

<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>ö</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 VI-7  
COLON AND RECTUM 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
<b>5-YR RELATIVE SURVIVAL RATES</b>									
<b>YEAR OF DIAGNOSIS:</b>									
1960-63 <sup>a</sup>	-	-	-	-	-	-	-	-	-
1970-73 <sup>a</sup>	-	-	-	-	-	-	-	-	-
1974-76 <sup>b</sup>	49.8	48.9	50.6	50.0	49.2	50.8	45.1	42.0	47.8
1977-79 <sup>b</sup>	51.9	50.7	53.0	52.3	51.2	53.3	45.8	43.9	47.3
1980-82 <sup>b</sup>	54.4	53.9	54.9	54.9	54.5	55.2	46.5	43.6	49.1
1983-85 <sup>b</sup>	56.9	56.8	56.9	57.6	57.7	57.6	48.0	47.0	48.9
1986-88 <sup>b</sup>	60.2	60.4	59.9	60.8	61.3	60.4	52.5	50.9	53.8
1989-91 <sup>b</sup>	61.8	61.9	61.6	62.3	62.6	62.1	54.0	54.3	53.7
1992-98 <sup>b</sup>	61.9 <sup>U</sup>	61.9 <sup>U</sup>	61.9 <sup>U</sup>	62.6 <sup>U</sup>	62.6 <sup>U</sup>	62.7 <sup>U</sup>	52.8 <sup>U</sup>	52.7 <sup>U</sup>	52.8 <sup>U</sup>
<b>1992-98<sup>b</sup></b>									
ALL STAGES	61.9	61.9	61.9	62.6	62.6	62.7	52.8	52.7	52.8
LOCALIZED	90.1	90.1	90.0	90.7	90.9	90.5	84.2	83.4	84.8
REGIONAL	65.2	64.6	65.7	65.9	65.2	66.7	57.4	58.4	56.7
DISTANT	8.8	8.6	9.0	9.0	8.8	9.1	7.6	5.9	8.8
UNSTAGED	36.2	40.8	31.7	36.5	41.6	31.5	35.4	40.5	31.3
<b>STAGE DISTRIBUTION (%) 1992-98<sup>b</sup></b>									
ALL STAGES									
Number of cases	72,538	36,534	36,004	60,749	30,599	30,150	6,414	2,997	3,417
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	37	38	37	38	38	37	34	34	34
REGIONAL	37	37	38	38	37	39	35	35	36
DISTANT	20	20	19	19	20	19	24	24	23
UNSTAGED	6	5	6	6	5	6	7	7	8
<b>5-YR RELATIVE SURVIVAL RATES, 1992-98<sup>b</sup></b>									
<b>AGE AT DIAGNOSIS:</b>									
<45	60.0	59.4	60.8	61.0	60.2	61.9	53.6	53.5	53.4
45-54	64.3	62.8	66.2	65.1	63.2	67.6	59.0	58.0	60.0
55-64	63.3	63.3	63.3	64.2	64.1	64.2	54.0	53.4	54.4
65-74	63.6	63.3	64.0	64.3	63.9	64.8	53.9	52.5	55.4
75+	58.8	59.1	58.5	59.7	60.0	59.5	45.7	47.7	44.5
Under 65	63.0	62.5	63.7	63.9	63.3	64.8	55.5	55.0	56.0
65 and over	61.3	61.7	61.1	62.1	62.4	61.9	50.4	50.9	50.2

<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 1999.

The difference in rates between 1974-76 and 1992-98 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.

Statistic could not be calculated.

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Table VI-8  
COLON 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
<b>5-YR RELATIVE SURVIVAL RATES</b>									
<b>YEAR OF DIAGNOSIS:</b>									
1960-63 <sup>a</sup>	-	-	-	43	42	44	34	32	35
1970-73 <sup>a</sup>	-	-	-	49	47	50	37	36	38
1974-76 <sup>b</sup>	50.4	49.5	51.1	50.6	49.8	51.2	46.2	44.9	47.3
1977-79 <sup>b</sup>	52.9	51.7	53.8	53.0	52.0	53.9	48.1	45.9	49.9
1980-82 <sup>b</sup>	55.4	55.6	55.2	55.7	56.0	55.4	49.3	46.7	51.3
1983-85 <sup>b</sup>	57.7	58.1	57.3	58.4	58.9	58.0	49.3	48.3	50.1
1986-88 <sup>b</sup>	60.9	61.6	60.2	61.6	62.5	60.7	52.9	52.6	53.1
1989-91 <sup>b</sup>	62.5	63.0	62.0	63.1	63.7	62.5	53.9	53.8	53.9
1992-98 <sup>b</sup>	61.9 <sup>†</sup>	62.3 <sup>†</sup>	61.5 <sup>†</sup>	62.7 <sup>†</sup>	63.0 <sup>†</sup>	62.4 <sup>†</sup>	52.8 <sup>†</sup>	53.2 <sup>†</sup>	52.5 <sup>†</sup>
<b>1992-98<sup>b</sup></b>									
ALL STAGES	61.9	62.3	61.5	62.7	63.0	62.4	52.8	53.2	52.5
LOCALIZED	91.6	92.3	91.0	92.1	93.0	91.4	86.4	86.1	86.2
REGIONAL	67.7	67.9	67.6	68.5	68.2	68.7	60.0	62.8	58.0
DISTANT	9.0	8.8	9.3	9.3	9.0	9.5	7.3	6.0	8.3
UNSTAGED	32.8	38.4	27.9	33.1	39.5	27.5	32.4	34.8 <sup>†</sup>	30.3 <sup>†</sup>
<b>STAGE DISTRIBUTION (%) 1992-98<sup>b</sup></b>									
ALL STAGES									
Number of cases	51,885	24,909	26,976	43,443	20,895	22,548	4,852	2,172	2,680
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	35	36	34	36	37	34	32	32	32
REGIONAL	39	37	40	39	37	40	36	36	37
DISTANT	21	22	21	21	22	20	26	26	25
UNSTAGED	5	5	6	5	5	6	7	6	7
<b>5-YR RELATIVE SURVIVAL RATES, 1992-98<sup>b</sup></b>									
<b>AGE AT DIAGNOSIS:</b>									
<45	57.9	58.8	56.8	58.3	58.5	58.0	51.9	55.8	48.6
45-54	62.7	61.3	64.3	63.6	61.3	66.5	57.9	58.4	57.3
55-64	62.6	63.2	61.9	63.5	64.2	62.6	52.5	51.1	53.5
65-74	63.8	64.2	63.5	64.5	64.9	64.1	55.4	54.1	56.7
75+	60.1	60.6	59.8	61.0	61.5	60.8	47.1	49.4	45.9
Under 65	61.9	62.0	61.7	62.8	62.6	63.0	54.1	54.4	53.8
65 and over	62.0	62.8	61.5	62.8	63.6	62.3	51.8	52.5	51.5

<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 1999.  
 The difference in rates between 1974-76 and 1992-98 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.  
 Statistic could not be calculated.

Table VI-9  
RECTUM 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
<b>5-YR RELATIVE SURVIVAL RATES</b>									
<b>YEAR OF DIAGNOSIS:</b>									
1960-63 <sup>a</sup>	-	-	-	38	36	41	27	28	27
1970-73 <sup>a</sup>	-	-	-	45	43	48	30	20	40
1974-76 <sup>b</sup>	48.5	47.7	49.5	48.9	48.0	49.8	42.0	34.7	49.3
1977-79 <sup>b</sup>	49.8	48.8	51.0	50.6	49.8	51.6	39.0	38.5	39.4
1980-82 <sup>b</sup>	52.2	50.6	54.0	53.1	51.7	54.7	37.9	36.1	40.2
1983-85 <sup>b</sup>	55.0	54.3	55.8	55.9	55.2	56.7	43.9	43.1	44.7
1986-88 <sup>b</sup>	58.5	57.9	59.2	59.1	58.8	59.5	51.1	46.2	56.0
1989-91 <sup>b</sup>	60.1	59.7	60.5	60.5	60.2	60.8	54.3	56.0	52.6
1992-98 <sup>b</sup>	61.7 <sup>†</sup>	60.9 <sup>†</sup>	62.8 <sup>†</sup>	62.4 <sup>†</sup>	61.6 <sup>†</sup>	63.5 <sup>†</sup>	52.7 <sup>†</sup>	51.6 <sup>†</sup>	53.8
<b>1992-98<sup>b</sup></b>									
ALL STAGES	61.7	60.9	62.8	62.4	61.6	63.5	52.7	51.6	53.8
LOCALIZED	87.1	86.3	87.9	87.9	87.1	88.7	78.9	78.0	80.0
REGIONAL	58.4	57.8	59.3	59.2	58.8	59.8	48.3	46.6	50.6
DISTANT	8.0	8.1	7.8	7.9	8.3	7.4	9.0	5.1	11.3
UNSTAGED	41.4	43.7	38.6	41.7	44.0	38.9	41.2 <sup>†</sup>	49.1 <sup>†</sup>	33.0 <sup>†</sup>
<b>STAGE DISTRIBUTION (%) 1992-98<sup>b</sup></b>									
ALL STAGES									
Number of cases	20,653	11,625	9,028	17,306	9,704	7,602	1,562	825	737
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	43	42	44	43	42	44	40	38	41
REGIONAL	35	35	34	35	35	34	32	34	30
DISTANT	15	16	15	15	16	15	18	19	18
UNSTAGED	7	7	8	7	7	8	10	9	11
<b>5-YR RELATIVE SURVIVAL RATES, 1992-98<sup>b</sup></b>									
AGE AT DIAGNOSIS:									
<45	63.7	60.2	67.9	65.4	62.9	68.4	57.1	48.9 <sup>†</sup>	66.3 <sup>†</sup>
45-54	66.9	64.9	70.0	67.4	66.0	69.7	61.3	56.6 <sup>†</sup>	67.1 <sup>†</sup>
55-64	64.6	63.3	66.8	65.5	64.1	68.0	58.1	58.8	57.1 <sup>†</sup>
65-74	63.0	61.2	65.6	63.7	61.6	66.7	48.5	47.5 <sup>†</sup>	49.9 <sup>†</sup>
75+	54.2	54.9	53.7	55.0	55.5	54.7	39.9	42.4 <sup>†</sup>	38.2 <sup>†</sup>
Under 65	65.1	63.3	67.9	66.0	64.4	68.5	59.0	56.1	62.6
65 and over	59.3	59.0	59.7	60.1	59.5	60.7	45.0	45.7	44.4

<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 1999.

The difference in rates between 1974-76 and 1992-98 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.

Statistic could not be calculated.

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Table VI-10  
COLON AND RECTUM CANCER (Invasive)  
INCIDENCE, DEATH, AND SURVIVAL RATES◊  
 By Year of Diagnosis/Death  
 All Races, Males and Females

	Year of Diagnosis/Death																				
	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>Incidence</b>																					
SEER <sup>a</sup>	59.4	63.7	64.2	62.8	63.6	64.8	66.2	64.2	62.7	61.4	61.7	60.7	59.5	58.0	56.8	55.7	54.0	54.6	56.2	56.3	54.3
<b>Mortality</b>																					
U.S. <sup>b</sup>	28.1	28.1	27.5	27.2	27.1	27.3	26.9	26.2	25.9	25.3	25.0	24.7	24.0	23.7	23.4	23.0	22.7	22.0	21.6	21.4	21.1
SEER <sup>a</sup>	28.6	27.4	26.8	27.1	25.8	26.5	27.1	25.0	24.8	24.0	24.9	23.3	22.7	22.4	22.1	22.2	21.0	20.6	20.5	20.1	19.0
<b>Relative Survival Rates (SEER<sup>a</sup>)</b>																					
1-year	73.4	75.7	78.6	78.5	78.3	79.3	80.1	81.3	80.8	80.3	81.2	81.8	82.5	81.7	80.9	81.7	80.2	82.0	81.1	82.6	
2-year	61.7	65.5	68.7	68.1	67.9	69.1	70.9	71.9	71.8	71.8	72.3	73.4	73.9	73.3	72.7	73.0	72.1	74.2	73.3		
3-year	56.0	58.8	62.2	62.2	61.8	62.7	65.0	66.5	66.2	66.4	67.6	68.3	68.4	67.8	67.8	68.3	66.7	69.4			
4-year	52.0	55.0	57.8	58.3	57.8	58.9	61.4	62.7	62.3	62.8	63.6	64.1	64.9	64.3	63.9	64.2	62.9				
5-year	49.4	52.5	55.5	55.2	55.6	55.9	59.0	60.3	59.9	60.3	60.9	61.9	62.6	62.2	61.3	61.4					
6-year	47.6	50.8	53.6	53.3	53.5	54.1	57.2	58.2	58.2	58.7	59.5	60.5	60.7	60.7	60.7	59.8					
7-year	46.6	49.5	51.9	52.0	52.0	52.7	55.9	56.7	56.5	57.4	58.1	59.1	59.3	59.1							
8-year	45.8	48.3	51.1	50.8	50.9	52.1	55.1	55.6	55.8	56.4	57.0	57.8	58.1								
9-year	45.4	47.7	50.3	50.3	50.1	51.2	54.1	54.9	55.1	55.7	56.1	57.1									
10-year	44.7	47.2	49.7	50.0	49.3	50.2	53.5	54.6	54.4	55.0	55.3										
11-year	44.4	46.6	49.6	49.5	48.3	49.7	53.0	54.3	54.3	54.3	54.3										
12-year	44.2	46.4	49.4	48.9	48.2	49.0	52.8	54.3	53.7												
13-year	43.9	46.4	49.3	48.9	47.4	48.9	52.5	53.7													
14-year	43.4	46.0	49.0	48.6	46.7	48.6	52.1														
15-year	42.6	46.0	48.6	48.5	46.3	48.4															
16-year	42.0	45.8	47.9	47.3	46.0																
17-year	41.6	45.7	47.8	47.0																	
18-year	41.2	45.2	47.8																		
19-year	41.2	44.6																			
20-year	41.2																				
21-year	41.0																				
22-year	40.7																				
23-year	39.8																				
24-year	39.8																				

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

<sup>b</sup> 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 VI-11  
COLON AND RECTUM CANCER (Invasive)  
INCIDENCE, DEATH, AND SURVIVAL RATES◊

By Year of Diagnosis/Death

All Races, Males

Year of Diagnosis/Death

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>Incidence</b>																					
SEER <sup>a</sup>	68.2	74.5	75.8	75.1	75.6	77.6	79.0	77.8	77.4	75.3	74.9	74.4	72.9	70.4	68.3	66.2	63.3	65.0	67.5	65.9	63.7
<b>Mortality</b>																					
U.S. <sup>b</sup>	32.8	33.7	33.0	33.0	33.1	33.0	32.7	32.0	31.9	31.1	30.8	30.8	29.6	29.3	28.5	28.2	27.6	26.7	26.2	25.6	25.4
SEER <sup>a</sup>	33.9	32.6	31.3	32.7	31.4	31.6	33.8	30.1	29.6	29.4	30.2	28.5	28.0	28.2	26.3	27.9	25.1	24.3	25.0	23.9	23.0
<b>Relative Survival Rates (SEER<sup>a</sup>)</b>																					
1-year	73.0	76.5	79.7	79.5	79.5	79.4	81.3	82.4	81.7	81.1	82.0	83.0	83.3	82.8	81.7	82.8	81.6	83.4	82.1	83.0	
2-year	62.2	66.2	69.2	68.6	68.9	68.6	72.3	73.1	72.9	73.3	73.2	74.2	74.9	74.2	73.4	74.1	73.4	76.0	74.6		
3-year	55.9	59.5	62.4	62.7	62.6	61.5	66.5	67.2	67.0	67.4	68.4	69.5	69.2	68.5	68.4	69.5	67.7	70.8			
4-year	51.8	55.3	57.8	58.0	58.5	57.4	62.3	63.4	62.5	62.7	64.1	64.9	65.1	64.5	64.1	64.7	64.1				
5-year	48.8	52.2	55.0	54.5	56.2	54.6	59.5	60.7	60.0	60.5	61.3	62.1	62.4	62.1	61.3	61.3					
6-year	46.5	50.4	52.5	52.6	53.9	52.4	57.6	58.2	58.6	58.7	59.8	60.5	59.9	60.7	60.0						
7-year	45.1	48.9	50.5	51.2	52.2	51.0	55.8	57.0	56.7	57.3	58.4	58.8	58.2	59.4							
8-year	44.2	47.7	50.1	50.0	50.3	50.2	55.2	56.1	55.9	56.4	57.8	57.6	56.9								
9-year	43.9	46.8	49.6	49.6	49.3	48.9	54.2	55.2	55.2	55.5	56.7	57.3									
10-year	43.0	46.5	48.8	49.1	48.4	48.1	53.6	55.2	54.8	55.2	55.9										
11-year	43.0	46.1	48.2	48.5	47.6	47.4	53.3	55.1	54.7	55.2											
12-year	42.6	45.7	47.8	47.9	47.4	47.1	53.1	54.9	53.9												
13-year	42.6	45.7	47.8	47.9	46.9	46.9	52.8	54.6													
14-year	42.2	45.7	47.4	47.7	46.0	46.6	52.5														
15-year	41.8	45.7	47.4	47.5	45.9	46.6															
16-year	41.5	45.7	47.3	46.2	45.9																
17-year	41.2	45.5	47.1	45.7																	
18-year	41.1	44.6	47.1																		
19-year	41.0	44.6																			
20-year	41.0																				
21-year	41.0																				
22-year	40.7																				
23-year	40.0																				
24-year	39.9																				

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

<sup>b</sup> 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 VI-12  
COLON AND RECTUM CANCER (Invasive)  
INCIDENCE, DEATH, AND SURVIVAL RATES◊

By Year of Diagnosis/Death

All Races, Females

Year of Diagnosis/Death

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>Incidence</b>																					
SEER <sup>a</sup>	53.7	56.5	56.4	54.5	55.5	56.1	57.4	54.7	52.7	51.8	52.5	51.3	50.1	49.2	48.4	47.8	47.1	46.7	47.9	49.1	47.1
<b>Mortality</b>																					
U.S. <sup>b</sup>	25.0	24.4	24.0	23.6	23.2	23.6	23.1	22.3	22.0	21.5	21.2	20.6	20.3	19.9	19.9	19.4	19.3	18.7	18.3	18.3	18.0
SEER <sup>a</sup>	25.3	24.1	23.8	23.6	22.2	23.0	22.7	21.6	21.7	20.3	21.3	20.0	19.1	18.6	19.2	18.4	18.0	17.9	17.3	17.4	16.2
<b>Relative Survival Rates (SEER<sup>a</sup>)</b>																					
1-year	73.7	74.9	77.5	77.4	77.1	79.2	78.8	80.1	79.9	79.4	80.5	80.6	81.7	80.6	80.1	80.5	78.8	80.5	80.1	82.3	
2-year	61.3	64.9	68.3	67.7	66.8	69.6	69.6	70.8	70.6	70.2	71.4	72.5	72.9	72.4	72.1	72.0	70.9	72.4	71.9		
3-year	56.1	58.1	61.9	61.8	61.0	63.8	63.6	65.7	65.4	65.4	66.8	67.1	67.6	67.1	67.2	67.0	65.6	68.0			
4-year	52.2	54.8	57.8	58.6	57.1	60.4	60.5	62.0	62.0	62.9	63.1	63.4	64.7	64.1	63.8	63.8	61.8				
5-year	50.0	52.7	56.1	55.9	54.9	57.2	58.5	59.9	59.7	60.2	60.4	61.6	62.8	62.3	61.4	61.5					
6-year	48.6	51.1	54.5	53.8	53.2	55.7	56.9	58.2	57.8	58.8	59.2	60.5	61.5	60.7	59.6						
7-year	47.9	50.0	53.1	52.7	51.9	54.3	56.0	56.5	56.3	57.5	57.7	59.3	60.4	58.8							
8-year	47.2	48.8	52.0	51.5	51.4	54.0	55.0	55.1	55.7	56.5	56.2	58.0	59.2								
9-year	46.7	48.4	50.9	50.9	50.9	53.4	54.1	54.6	55.0	55.8	55.6	56.8									
10-year	46.1	47.8	50.6	50.9	50.0	52.1	53.4	53.9	54.1	54.8	54.8										
11-year	45.5	47.0	50.6	50.5	49.1	51.8	52.8	53.6	54.1	53.3											
12-year	45.5	47.0	50.6	49.8	48.9	50.7	52.5	53.6	53.6												
13-year	44.8	46.7	50.5	49.8	47.9	50.7	52.2	52.8													
14-year	44.3	46.2	50.3	49.4	47.2	50.4	51.8														
15-year	43.2	46.2	49.3	49.4	46.6	49.7															
16-year	42.3	45.7	48.5	48.2	45.7																
17-year	41.9	45.7	48.3	48.2																	
18-year	41.3	45.6	48.3																		
19-year	41.3	44.7																			
20-year	41.2																				
21-year	41.1																				
22-year	40.7																				
23-year	39.7																				
24-year	39.7																				

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

<sup>b</sup> 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 VI-13  
COLON AND RECTUM 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

1997-1999

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	0.01	6.00	0.00	0.00	0.01	5.66
10	0.00	0.01	0.06	6.06	0.00	0.01	0.06	5.70
20	0.01	0.06	0.25	6.09	0.01	0.06	0.24	5.72
30	0.05	0.24	0.93	6.16	0.05	0.23	0.74	5.73
40	0.19	0.89	2.40	6.22	0.18	0.70	1.81	5.73
50	0.72	2.29	4.40	6.25	0.53	1.67	3.44	5.67
60	1.70	3.99	5.64	5.99	1.19	3.06	4.87	5.41

Lifetime Risk of Being Diagnosed = 6.00%      Lifetime Risk of Being Diagnosed = 5.66%  
 Lifetime Risk of Dying = 2.43%      Lifetime Risk of Dying = 2.36%

Whites								
Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.01	6.05	0.00	0.00	0.01	5.66
10	0.00	0.01	0.06	6.10	0.00	0.01	0.06	5.69
20	0.01	0.06	0.23	6.13	0.01	0.06	0.22	5.71
30	0.05	0.23	0.89	6.19	0.05	0.21	0.69	5.72
40	0.18	0.86	2.37	6.25	0.17	0.65	1.75	5.72
50	0.70	2.26	4.39	6.27	0.49	1.62	3.41	5.65
60	1.69	3.98	5.66	6.00	1.18	3.06	4.89	5.42

Lifetime Risk of Being Diagnosed = 6.05%      Lifetime Risk of Being Diagnosed = 5.66%  
 Lifetime Risk of Dying = 2.44%      Lifetime Risk of Dying = 2.34%

Blacks								
Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.01	4.90	0.00	0.00	0.01	5.41
10	0.00	0.01	0.06	4.99	0.00	0.01	0.08	5.51
20	0.01	0.06	0.30	5.04	0.01	0.08	0.30	5.53
30	0.05	0.30	1.11	5.17	0.06	0.29	1.03	5.56
40	0.25	1.10	2.55	5.29	0.23	0.98	2.27	5.59
50	0.91	2.48	4.24	5.45	0.78	2.13	3.90	5.60
60	1.85	3.93	5.14	5.36	1.48	3.43	4.87	5.30

Lifetime Risk of Being Diagnosed = 4.90%      Lifetime Risk of Being Diagnosed = 5.41%  
 Lifetime Risk of Dying = 2.39%      Lifetime Risk of Dying = 2.65%

Table VI-14  
COLON AND RECTUM CANCER (Invasive)  
AGE-ADJUSTED SEER INCIDENCE AND U.S. DEATH RATES  
By Race/Ethnicity and Sex

Incidence<sup>i</sup>

RACE/ETHNICITY	Rate 1992-1999 Rate per 100,000 persons			Trend 1992-1999 EAPC (%)		
	Total	Males	Females	Total	Males	Females
All Races	54.3	64.6	46.7	-0.6	-1.0★	-0.3
White	53.9	64.4	46.1	-0.7	-1.1★	-0.4
White Hispanic	37.5	46.2	31.1	-0.4	-0.2	-0.7
White Non-Hispanic	55.2	65.4	47.6	-0.6	-1.0★	-0.3
Black	61.9	70.7	55.8	-0.5	-1.1	0.0
Asian/Pacific Islander	47.9	58.7	39.5	-0.2	0.0	-0.1
Amer Ind/Alaska Nat	35.2	40.7	30.8	1.7	0.3	3.3
Hispanic <sup>o</sup>	35.7	43.9	29.7	-0.4	-0.3	-0.7

Mortality<sup>♦</sup>

RACE/ETHNICITY	Rate 1992-1999 Rate per 100,000 persons			Trend 1992-1999 EAPC (%)		
	Total	Males	Females	Total	Males	Females
All Races	22.3	27.1	18.9	-1.7★	-2.1★	-1.6★
White	21.9	26.7	18.4	-1.9★	-2.2★	-1.7★
White Hispanic	13.7	17.4	11.0	-0.7★	-0.6	-0.8
White Non-Hispanic	22.0	26.9	18.6	-1.8★	-2.1★	-1.6★
Black	29.1	34.8	25.4	-0.5★	-1.0★	-0.3
Asian/Pacific Islander	13.7	16.5	11.6	-2.3★	-2.6★	-1.9★
Amer Ind/Alaska Nat	12.8	14.6	11.3	2.8	5.5	0.7
Hispanic <sup>o</sup>	13.2	16.6	10.6	-0.7★	-0.6	-0.9

The EAPC is the Estimated Annual Percent Change over the time interval.

<sup>-</sup> 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>i</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>o</sup> Hispanic is not mutually exclusive from whites, blacks, Asian Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics does 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>♦</sup> Mortality data are analyzed from a public use file provided by the National Center for Health Statistics (NCHS).

<sup>\*</sup> The EAPC is significantly different from zero ( $p < .05$ ).

**Table VI-15**  
**COLON CANCER (Invasive) and RECTUM CANCER (Invasive)**

**AGE-ADJUSTED SEER INCIDENCE**

By Race/Ethnicity and Sex

**Colon Incidence<sup>i</sup>**

RACE/ETHNICITY	Rate 1992-1999 Rate per 100,000 persons			Trend 1992-1999 EAPC (%)		
	Total	Males	Females	Total	Males	Females
All Races	39.4	45.3	35.0	-0.8*	-1.3*	-0.5
White	39.1	45.3	34.5	-0.9*	-1.4*	-0.6
White Hispanic	25.6	30.2	22.3	-0.2	0.5	-1.1
White Non-Hispanic	40.3	46.3	35.8	-0.7	-1.2*	-0.4
Black	47.8	52.9	44.3	-0.6	-1.2	-0.3
Asian/Pacific Islander	32.5	37.9	28.3	-0.1	-0.4	0.5
Amer Ind/Alaska Nat	25.3	28.5	22.8	0.6	-1.6	2.5
Hispanic <sup>o</sup>	24.5	28.8	21.3	-0.2	0.4	-1.0

**Rectum Incidence<sup>i</sup>**

RACE/ETHNICITY	Rate 1992-1999 Rate per 100,000 persons			Trend 1992-1999 EAPC (%)		
	Total	Males	Females	Total	Males	Females
All Races	14.9	19.3	11.6	-0.1	-0.4	0.2
White	14.8	19.1	11.6	-0.1	-0.6	0.2
White Hispanic	11.8	15.9	8.8	-0.7	-1.5	0.3
White Non-Hispanic	14.9	19.0	11.7	-0.2	-0.6	0.1
Black	14.2	17.8	11.5	0.1	-0.7	0.9
Asian/Pacific Islander	15.4	20.8	11.1	-0.3	0.8	-1.6
Amer Ind/Alaska Nat	9.9	12.2	8.0	4.1	-	-
Hispanic <sup>o</sup>	11.2	15.1	8.4	-0.8	-1.7	0.1

The EAPC is the Estimated 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>i</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>o</sup> Hispanic is not mutually exclusive from whites, blacks, Asian Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics does 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>♦</sup> Mortality data are analyzed from a public use file provided by the National Center for Health Statistics (NCHS).

\* The EAPC is significantly different from zero ( $p < .05$ ).

Table VI-16  
COLON AND RECTUM CANCER (Invasive)

AGE-ADJUSTED SEER INCIDENCE RATES\$ AND SEER DEATH RATESä  
By Registry, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<b>SEER INCIDENCE RATES\$, 1995-99</b>									
REGISTRY									
11 registries	53.6	63.4	46.2	53.2	63.1	45.7	61.3	69.3	55.6
9 registries	55.1	65.1	47.6	54.8	65.0	47.1	61.4	69.0	56.1
San Francisco-Oakland	52.6	62.4	45.3	53.1	63.0	45.6	53.8	60.0	48.9
Connecticut	60.5	71.4	52.7	60.0	71.2	52.1	62.2	68.4	58.4
Metropolitan Detroit	57.7	69.6	49.3	56.3	69.1	47.3	63.9	73.0	57.5
Hawaii	54.9	67.0	44.5	57.5	70.3	45.1	-	-	-
Iowa	64.1	75.8	55.3	64.1	76.0	55.3	61.4	68.8	57.5
New Mexico	43.1	51.7	36.0	44.0	52.6	36.9	38.0	50.1	-
Seattle-Puget Sound	52.3	61.5	45.3	52.4	61.6	45.4	58.9	65.7	52.2
Utah	42.3	48.6	37.2	42.5	48.8	37.3	-	-	-
Metropolitan Atlanta	51.7	59.4	46.3	47.7	55.8	41.8	66.7	75.3	61.7
San Jose-Monterey	48.9	57.8	42.0	49.5	58.9	42.3	54.3	73.3	40.0
Los Angeles	50.0	59.4	43.0	48.6	57.7	41.8	61.3	69.9	55.0
<b>SEER DEATH RATESä, 1995-99</b>									
REGISTRY									
11 registries	19.7	23.6	16.8	19.5	23.6	16.5	26.6	30.8	23.7
9 registries	20.2	24.3	17.3	20.1	24.2	17.0	27.1	31.3	24.2
San Francisco-Oakland	19.5	23.9	16.3	19.7	24.5	16.2	25.1	28.9	22.1
Connecticut	20.8	25.3	17.8	20.8	25.3	17.7	21.8	25.8	19.0
Metropolitan Detroit	22.1	27.0	18.8	20.8	26.4	17.1	27.7	30.6	25.8
Hawaii	16.2	19.7	13.1	18.2	21.5	15.0	-	-	-
Iowa	22.9	27.6	19.6	22.9	27.5	19.6	28.4	-	-
New Mexico	18.5	22.1	15.6	18.7	22.2	15.7	21.8	-	-
Seattle-Puget Sound	19.2	22.9	16.3	19.3	22.9	16.4	26.6	33.1	20.5
Utah	16.7	18.8	15.1	16.6	18.5	15.1	-	-	-
Metropolitan Atlanta	20.4	23.5	18.2	17.8	20.2	16.0	31.1	38.8	27.0
San Jose-Monterey	18.0	21.5	15.5	18.5	22.0	15.9	33.2	43.3	-
Los Angeles	18.2	22.1	15.4	17.6	21.6	14.8	25.3	29.1	22.5

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.

ä 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 VI-17  
COLON AND RECTUM CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH<sup>a</sup> RATES BY STATE, 1995-99

All Races, Males and Females

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
TOTAL U.S.	21.7	0.04							
High Five States									
District of Columbia	26.0 <sup>⊕</sup>	0.96	(01)	19.8					
Vermont	25.2 <sup>⊕</sup>	0.94	(02)	16.1					
New Jersey	24.7 <sup>⊕</sup>	0.24	(03)	13.8					
Pennsylvania	24.7 <sup>⊕</sup>	0.19	(04)	13.8					
New Hampshire	24.6 <sup>⊕</sup>	0.67	(05)	13.4					
Low Five States									
California	18.6 <sup>⊕</sup>	0.12	(47)	-14.3					
Colorado	18.5 <sup>⊕</sup>	0.34	(48)	-14.7					
New Mexico	18.5 <sup>⊕</sup>	0.50	(49)	-14.7					
Utah	16.7 <sup>⊕</sup>	0.49	(50)	-23.0					
Hawaii	16.2 <sup>⊕</sup>	0.53	(51)	-25.3					
State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	19.8 <sup>⊕</sup>	0.30	(41)	-8.8	Montana	19.2 <sup>⊕</sup>	0.65	(44)	-11.5
Alaska	20.0	1.35	(40)	-7.8	Nebraska	23.0	0.51	(20)	6.0
Arizona	18.6 <sup>⊕</sup>	0.29	(46)	-14.3	Nevada	22.9	0.58	(22)	5.5
Arkansas	21.3	0.39	(32)	-1.8	New Hampshire	24.6 <sup>⊕</sup>	0.67	(05)	13.4
California	18.6 <sup>⊕</sup>	0.12	(47)	-14.3	New Jersey	24.7 <sup>⊕</sup>	0.24	(03)	13.8
Colorado	18.5 <sup>⊕</sup>	0.34	(48)	-14.7	New Mexico	18.5 <sup>⊕</sup>	0.50	(49)	-14.7
Connecticut	20.8	0.34	(34)	-4.1	New York	23.5 <sup>⊕</sup>	0.16	(17)	8.3
Delaware	24.1 <sup>⊕</sup>	0.83	(11)	11.1	North Carolina	21.3	0.25	(31)	-1.8
District of Columbia	26.0 <sup>⊕</sup>	0.96	(01)	19.8	North Dakota	21.3	0.77	(30)	-1.8
Florida	20.2 <sup>⊕</sup>	0.15	(38)	-6.9	Ohio	24.3 <sup>⊕</sup>	0.21	(09)	12.0
Georgia	19.6 <sup>⊕</sup>	0.26	(42)	-9.7	Oklahoma	20.8	0.35	(33)	-4.1
Hawaii	16.2 <sup>⊕</sup>	0.53	(51)	-25.3	Oregon	20.0 <sup>⊕</sup>	0.35	(39)	-7.8
Idaho	18.9 <sup>⊕</sup>	0.59	(45)	-12.9	Pennsylvania	24.7 <sup>⊕</sup>	0.19	(04)	13.8
Illinois	23.5 <sup>⊕</sup>	0.20	(16)	8.3	Rhode Island	24.4 <sup>⊕</sup>	0.65	(07)	12.4
Indiana	24.0 <sup>⊕</sup>	0.29	(14)	10.6	South Carolina	21.8	0.35	(27)	0.5
Iowa	22.9	0.37	(21)	5.5	South Dakota	23.0	0.76	(19)	6.0
Kansas	20.3 <sup>⊕</sup>	0.38	(36)	-6.5	Tennessee	22.0	0.29	(24)	1.4
Kentucky	24.0 <sup>⊕</sup>	0.36	(13)	10.6	Texas	20.7 <sup>⊕</sup>	0.16	(35)	-4.6
Louisiana	24.2 <sup>⊕</sup>	0.35	(10)	11.5	Utah	16.7 <sup>⊕</sup>	0.49	(50)	-23.0
Maine	24.3 <sup>⊕</sup>	0.60	(08)	12.0	Vermont	25.2 <sup>⊕</sup>	0.94	(02)	16.1
Maryland	24.4 <sup>⊕</sup>	0.33	(06)	12.4	Virginia	21.9	0.27	(25)	0.9
Massachusetts	24.1 <sup>⊕</sup>	0.27	(12)	11.1	Washington	19.2 <sup>⊕</sup>	0.27	(43)	-11.5
Michigan	21.9	0.22	(26)	0.9	West Virginia	23.8 <sup>⊕</sup>	0.48	(15)	9.7
Minnesota	20.3 <sup>⊕</sup>	0.30	(37)	-6.5	Wisconsin	21.5	0.28	(28)	-0.9
Mississippi	21.4	0.41	(29)	-1.4	Wyoming	23.3	1.05	(18)	7.4
Missouri	22.6	0.28	(23)	4.1					

<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.

SE Standard error of the rate.

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

<sup>⊕</sup> Absolute percent difference between state rate and total U.S. rate is 10% or more.

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

Table VI-18  
COLON AND RECTUM CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH<sup>a</sup> RATES BY STATE, 1995-99

All Races, Males

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
TOTAL U.S.	26.3	0.07							
High Five States									
Rhode Island	30.8 <sup>⊕</sup> *	1.20	(01)	17.1					
District of Columbia	30.7*	1.72	(02)	16.7					
Louisiana	30.3 <sup>⊕</sup> *	0.64	(03)	15.2					
New Jersey	30.2 <sup>⊕</sup> *	0.43	(04)	14.8					
Pennsylvania	30.0 <sup>⊕</sup> *	0.33	(05)	14.1					
Low Five States									
Colorado	22.3 <sup>⊕</sup> *	0.60	(47)	-15.2					
New Mexico	22.1 <sup>⊕</sup> *	0.84	(48)	-16.0					
Alaska	21.3*	2.11	(49)	-19.0					
Hawaii	19.7 <sup>⊕</sup> *	0.86	(50)	-25.1					
Utah	18.8 <sup>⊕</sup> *	0.79	(51)	-28.5					
State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	24.1 <sup>⊕</sup>	0.55	(38)	-8.4	Montana	23.7	1.11	(40)	-9.9
Alaska	21.3*	2.11	(49)	-19.0	Nebraska	28.4	0.89	(14)	8.0
Arizona	22.4 <sup>⊕</sup> *	0.49	(45)	-14.8	Nevada	28.0	1.00	(19)	6.5
Arkansas	25.2	0.68	(34)	-4.2	New Hampshire	28.2	1.14	(18)	7.2
California	22.3 <sup>⊕</sup> *	0.20	(46)	-15.2	New Jersey	30.2 <sup>⊕</sup> *	0.43	(04)	14.8
Colorado	22.3 <sup>⊕</sup> *	0.60	(47)	-15.2	New Mexico	22.1 <sup>⊕</sup> *	0.84	(48)	-16.0
Connecticut	25.3	0.60	(33)	-3.8	New York	28.7 <sup>⊕</sup>	0.28	(12)	9.1
Delaware	28.4	1.44	(15)	8.0	North Carolina	25.8	0.45	(31)	-1.9
District of Columbia	30.7*	1.72	(02)	16.7	North Dakota	26.8	1.34	(24)	1.9
Florida	24.1 <sup>⊕</sup>	0.25	(39)	-8.4	Ohio	29.5 <sup>⊕</sup> *	0.37	(08)	12.2
Georgia	23.5 <sup>⊕</sup> *	0.47	(42)	-10.6	Oklahoma	25.0	0.61	(35)	-4.9
Hawaii	19.7 <sup>⊕</sup> *	0.86	(50)	-25.1	Oregon	23.7 <sup>⊕</sup>	0.58	(41)	-9.9
Idaho	23.4*	1.01	(43)	-11.0	Pennsylvania	30.0 <sup>⊕</sup> *	0.33	(05)	14.1
Illinois	29.1 <sup>⊕</sup> *	0.36	(10)	10.6	Rhode Island	30.8 <sup>⊕</sup> *	1.20	(01)	17.1
Indiana	28.3 <sup>⊕</sup>	0.51	(17)	7.6	South Carolina	27.1	0.65	(22)	3.0
Iowa	27.6	0.65	(20)	4.9	South Dakota	27.4	1.28	(21)	4.2
Kansas	24.6	0.67	(36)	-6.5	Tennessee	26.6	0.52	(26)	1.1
Kentucky	29.7 <sup>⊕</sup> *	0.64	(06)	12.9	Texas	25.5	0.29	(32)	-3.0
Louisiana	30.3 <sup>⊕</sup> *	0.64	(03)	15.2	Utah	18.8 <sup>⊕</sup> *	0.79	(51)	-28.5
Maine	28.5	1.05	(13)	8.4	Vermont	28.9	1.64	(11)	9.9
Maryland	29.5 <sup>⊕</sup> *	0.59	(09)	12.2	Virginia	25.9	0.49	(29)	-1.5
Massachusetts	29.6 <sup>⊕</sup> *	0.49	(07)	12.5	Washington	22.8 <sup>⊕</sup> *	0.47	(44)	-13.3
Michigan	27.1	0.39	(23)	3.0	West Virginia	28.3	0.84	(16)	7.6
Minnesota	24.4 <sup>⊕</sup>	0.51	(37)	-7.2	Wisconsin	26.4	0.50	(27)	0.4
Mississippi	26.0	0.72	(28)	-1.1	Wyoming	25.9	1.73	(30)	-1.5
Missouri	26.8	0.49	(25)	1.9					

<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.

SE Standard error of the rate.

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

\* 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 ( $p \leq .0002$ ).

Table VI-19  
COLON AND RECTUM CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH<sup>a</sup> RATES BY STATE, 1995-99

All Races, Females

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
TOTAL U.S.	18.5	0.05							
High Five States									
District of Columbia	22.8 <sup>⊕</sup> *	1.15	(01)	23.2					
Vermont	22.6*	1.16	(02)	22.2					
New Hampshire	21.8 <sup>⊕</sup> *	0.83	(03)	17.8					
Maine	21.4 <sup>⊕</sup> *	0.74	(04)	15.7					
Wyoming	21.1*	1.31	(05)	14.1					
Low Five States									
Montana	15.6 <sup>⊕</sup> *	0.77	(47)	-15.7					
Arizona	15.6 <sup>⊕</sup> *	0.35	(48)	-15.7					
Idaho	15.5 <sup>⊕</sup> *	0.71	(49)	-16.2					
Utah	15.1 <sup>⊕</sup> *	0.61	(50)	-18.4					
Hawaii	13.1 <sup>⊕</sup> *	0.65	(51)	-29.2					
State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	16.9 <sup>⊕</sup>	0.36	(42)	-8.6	Montana	15.6 <sup>⊕</sup> *	0.77	(47)	-15.7
Alaska	18.6	1.74	(26)	0.5	Nebraska	19.2	0.62	(22)	3.8
Arizona	15.6 <sup>⊕</sup> *	0.35	(48)	-15.7	Nevada	18.6	0.70	(25)	0.5
Arkansas	18.5	0.48	(27)	0.0	New Hampshire	21.8 <sup>⊕</sup> *	0.83	(03)	17.8
California	15.7 <sup>⊕</sup> *	0.14	(45)	-15.1	New Jersey	20.9 <sup>⊕</sup> *	0.29	(08)	13.0
Colorado	15.8 <sup>⊕</sup> *	0.41	(44)	-14.6	New Mexico	15.6 <sup>⊕</sup> *	0.61	(46)	-15.7
Connecticut	17.8	0.41	(34)	-3.8	New York	20.0 <sup>⊕</sup>	0.19	(16)	8.1
Delaware	20.8*	1.00	(09)	12.4	North Carolina	18.2	0.29	(29)	-1.6
District of Columbia	22.8 <sup>⊕</sup> *	1.15	(01)	23.2	North Dakota	17.5	0.93	(35)	-5.4
Florida	17.2 <sup>⊕</sup>	0.18	(37)	-7.0	Ohio	20.8 <sup>⊕</sup> *	0.25	(10)	12.4
Georgia	17.0 <sup>⊕</sup>	0.31	(41)	-8.1	Oklahoma	17.9	0.42	(32)	-3.2
Hawaii	13.1 <sup>⊕</sup> *	0.65	(51)	-29.2	Oregon	17.0	0.42	(40)	-8.1
Idaho	15.5 <sup>⊕</sup> *	0.71	(49)	-16.2	Pennsylvania	21.0 <sup>⊕</sup> *	0.22	(06)	13.5
Illinois	19.8 <sup>⊕</sup>	0.24	(18)	7.0	Rhode Island	20.4*	0.77	(13)	10.3
Indiana	20.9 <sup>⊕</sup> *	0.35	(07)	13.0	South Carolina	18.2	0.42	(31)	-1.6
Iowa	19.6	0.45	(20)	5.9	South Dakota	19.7	0.93	(19)	6.5
Kansas	17.1	0.46	(39)	-7.6	Tennessee	18.7	0.35	(24)	1.1
Kentucky	20.1 <sup>⊕</sup>	0.42	(15)	8.6	Texas	17.2 <sup>⊕</sup>	0.19	(38)	-7.0
Louisiana	19.9	0.41	(17)	7.6	Utah	15.1 <sup>⊕</sup> *	0.61	(50)	-18.4
Maine	21.4 <sup>⊕</sup> *	0.74	(04)	15.7	Vermont	22.6*	1.16	(02)	22.2
Maryland	20.7 <sup>⊕</sup> *	0.39	(12)	11.9	Virginia	19.2	0.33	(23)	3.8
Massachusetts	20.4 <sup>⊕</sup> *	0.32	(14)	10.3	Washington	16.5 <sup>⊕</sup> *	0.34	(43)	-10.8
Michigan	18.3	0.26	(28)	-1.1	West Virginia	20.8 <sup>⊕</sup> *	0.58	(11)	12.4
Minnesota	17.3	0.36	(36)	-6.5	Wisconsin	17.9	0.34	(33)	-3.2
Mississippi	18.2	0.49	(30)	-1.6	Wyoming	21.1*	1.31	(05)	14.1
Missouri	19.6	0.34	(21)	5.9					

<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.

SE Standard error of the rate.

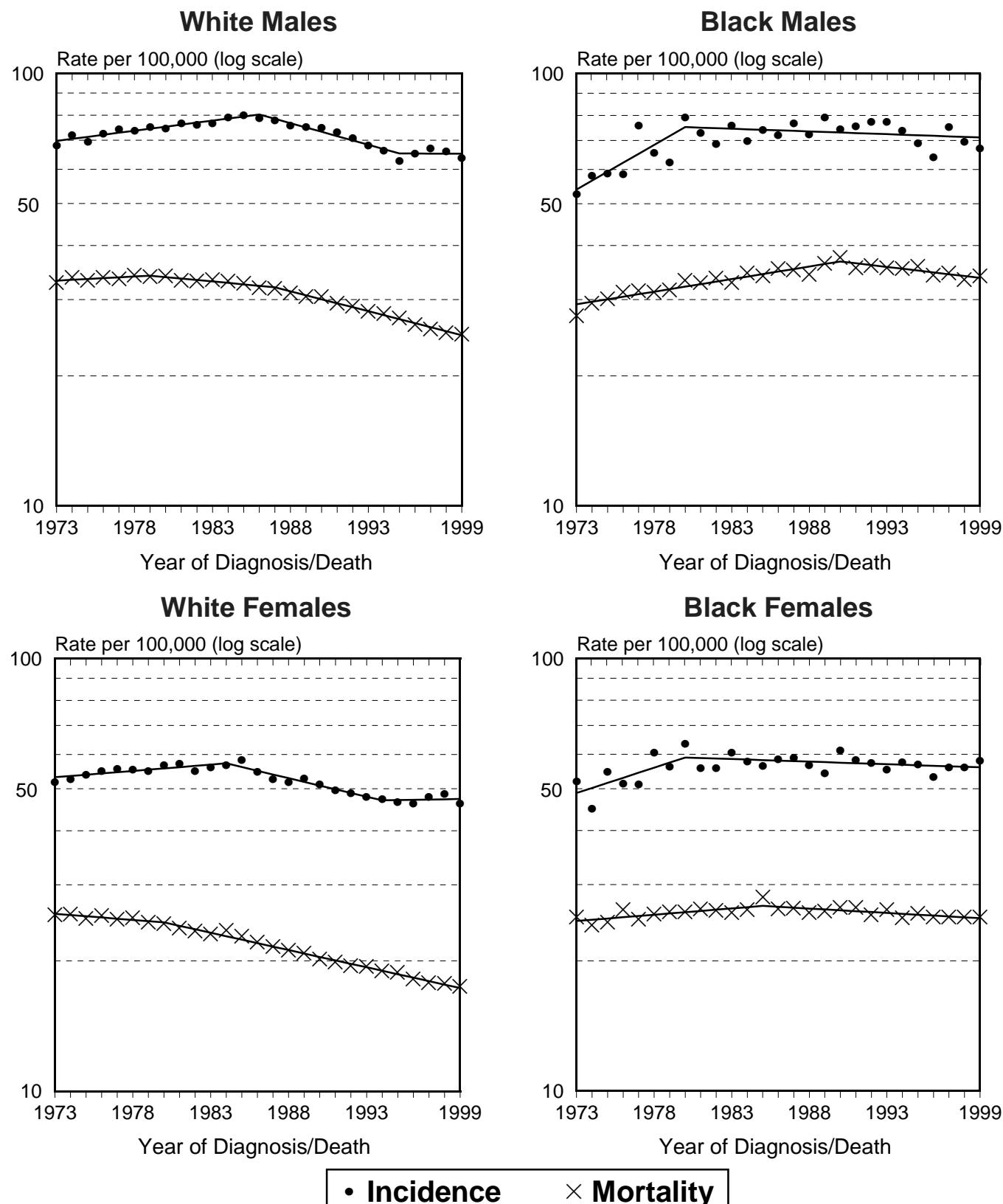
PD Percent difference between state rate and total U.S. rate.

\* 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 ( $p \leq .0002$ ).

Figure VI-1

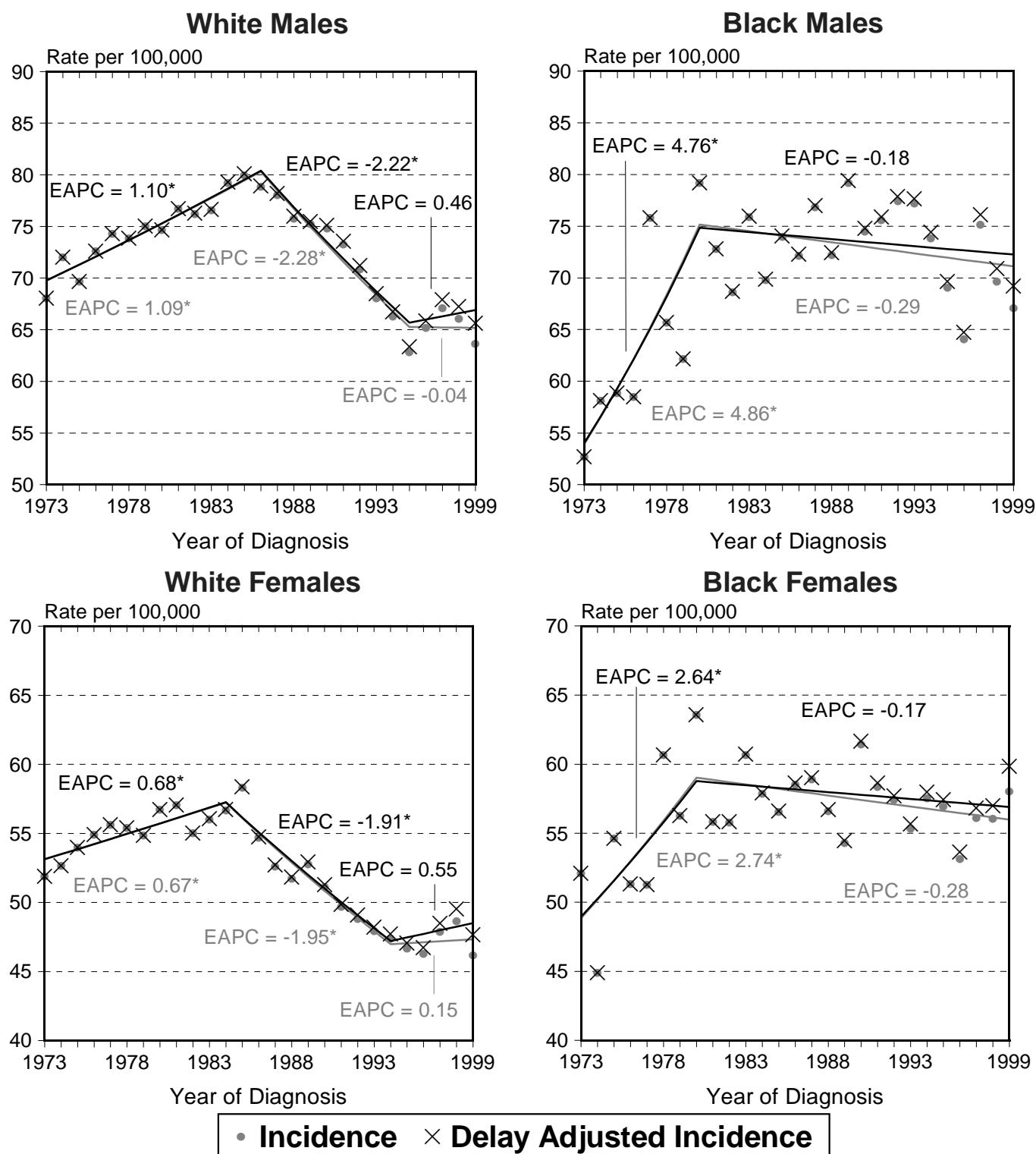
# SEER Incidence and U.S. Death Rates<sup>+</sup> Colon & Rectum



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

Figure VI-2

# SEER Incidence and Delay Adjusted Incidence Rates<sup>+</sup> Colon & Rectum By Race and Sex



Source: SEER 9 areas.

<sup>+</sup> Rates are age-adjusted to the 2000 U.S. standard million population by 5-year age groups. Regression lines are calculated using the Joinpoint Regression Program. The EAPC is the Estimated Annual Percent Change for the regression line segments. The EAPC is calculated by the Joinpoint Regression Program.

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