

Table VI-1
COLON AND RECTUM CANCER (Invasive)

TRENDS IN SEER INCIDENCE AND U.S. MORTALITY, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>INCIDENCE TRENDS (expressed in percents)§:</u>									
<u>1973-94</u>									
All Ages									
Percent Change (PC)	-5.2	-1.9	-9.4	-7.6	-5.0	-11.5	22.5	34.6	14.1
Est. Annual PC (EAPC)	-0.2	0.1	-0.5*	-0.3	0.0	-0.7*	0.9*	1.4*	0.6*
Under 65									
Percent Change (PC)	-7.7	-0.9	-15.2	-11.8	-5.6	-19.3	26.9	37.1	18.5
Est. Annual PC (EAPC)	-0.4*	0.1	-0.9*	-0.6*	-0.1	-1.1*	1.0*	1.3*	0.8*
65 and over									
Percent Change (PC)	-3.9	-2.4	-6.0	-5.4	-4.7	-7.0	19.7	33.0	11.0
Est. Annual PC (EAPC)	-0.1	0.1	-0.4*	-0.2	0.0	-0.4*	0.9*	1.5*	0.4
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	2.3	3.7	1.3	2.2	3.9	0.7	7.0	4.8	10.9
Est. Annual PC (EAPC)	0.9	1.5	0.3	0.8	1.5	0.2	1.6	1.4	2.3
<u>1990-94 - ALL AGES</u>									
Percent Change (PC)	-6.6	-8.1	-5.5	-7.4	-9.0	-6.3	-3.4	-1.5	-4.9
Est. Annual PC (EAPC)	-2.3*◆	-2.7*◆	-2.0*◆	-2.5*◆	-3.0*◆	-2.3*◆	-1.1*◇	-0.4	-1.6
<u>MORTALITY TRENDS (expressed in percents)*:</u>									
<u>1973-94</u>									
All Ages									
Percent Change (PC)	-19.6	-14.2	-25.0	-21.8	-16.6	-27.2	9.3	22.3	-0.1
Est. Annual PC (EAPC)	-1.1*	-0.8*	-1.5*	-1.3*	-0.9*	-1.7*	0.5*	1.0*	0.0
Under 65									
Percent Change (PC)	-23.8	-16.4	-31.9	-26.5	-19.6	-34.4	0.5	17.8	-13.7
Est. Annual PC (EAPC)	-1.4*	-0.9*	-2.0*	-1.5*	-1.0*	-2.2*	0.0	0.7*	-0.6*
65 and over									
Percent Change (PC)	-17.6	-13.2	-21.6	-19.7	-15.4	-23.8	14.5	24.7	8.6
Est. Annual PC (EAPC)	-1.0*	-0.7*	-1.3*	-1.1*	-0.9*	-1.4*	0.7*	1.2*	0.4*
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	-0.4	1.2	-1.8	-0.6	1.1	-2.1	1.2	1.6	1.1
Est. Annual PC (EAPC)	-0.1	0.4	-0.6	-0.2	0.4	-0.7	0.7	0.7	0.7
<u>1990-94 - ALL AGES</u>									
Percent Change (PC)	-4.6	-5.5	-4.3	-4.9	-5.9	-4.5	-2.5	-1.9	-3.5
Est. Annual PC (EAPC)	-1.6*◆	-1.9*◆	-1.5*◆	-1.7*◆	-2.0*◆	-1.5*◇	-1.0◆	-0.8	-1.3◇

The Est. Annual PC is the Estimated Annual Percent Change (EAPC) over the time interval.
SEER Program.

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*

NCHS public use tape.

★

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

◆

The EAPC for 1990-94 is significantly different from the EAPC for 1975-79 (p<.05).

◇

The EAPC for 1990-94 is significantly different from the EAPC for 1975-79 (p<.10).

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Statistic could not be calculated.

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

TRENDS IN SEER INCIDENCE, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>INCIDENCE TRENDS FOR COLON (expressed in percents)§:</u>									
<u>1973-94</u>									
All Ages									
Percent Change (PC)	-0.3	5.6	-6.6	-2.9	2.7	-9.2	31.5	37.4	28.3
Est. Annual PC (EAPC)	0.0	0.4★	-0.4★	-0.1	0.3	-0.5★	1.2★	1.6★	0.9★
Under 65									
Percent Change (PC)	-4.4	6.6	-14.7	-8.5	2.8	-19.5	33.0	37.1	29.8
Est. Annual PC (EAPC)	-0.3	0.3	-0.9★	-0.5★	0.1	-1.2★	1.2★	1.4★	1.1★
65 and over									
Percent Change (PC)	1.8	5.2	-1.9	-0.1	2.6	-3.6	30.7	37.6	27.3
Est. Annual PC (EAPC)	0.2	0.5★	-0.1	0.1	0.4	-0.2	1.1★	1.7★	0.8★
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	3.1	5.8	0.9	2.8	6.1	0.1	7.9	5.3	11.8
Est. Annual PC (EAPC)	1.1	2.1	0.3	1.0	2.1★	0.0	2.0	1.5	2.8
<u>1990-94 - ALL AGES</u>									
Percent Change (PC)	-6.2	-7.2	-5.7	-6.8	-7.7	-6.6	-3.4	-1.9	-4.2
Est. Annual PC (EAPC)	-2.1★◆	-2.4★◆	-2.0★◆	-2.3★◆	-2.5★◆	-2.3★◆	-1.2★◆	-0.9	-1.3
<u>INCIDENCE TRENDS FOR RECTUM (expressed in percents)§:</u>									
<u>1973-94</u>									
All Ages									
Percent Change (PC)	-16.1	-15.9	-16.9	-18.0	-19.1	-17.5	-1.3	26.5	-21.8
Est. Annual PC (EAPC)	-0.8★	-0.6★	-1.0★	-0.9★	-0.8★	-1.1★	0.1	0.9★	-0.5
Under 65									
Percent Change (PC)	-13.8	-12.2	-16.1	-17.9	-17.7	-18.8	12.9	37.1	-6.7
Est. Annual PC (EAPC)	-0.6★	-0.3	-0.9★	-0.7★	-0.5★	-1.1★	0.5★	0.9★	0.1
65 and over									
Percent Change (PC)	-17.7	-18.2	-17.4	-18.1	-20.0	-16.7	-12.5	18.5	-34.2
Est. Annual PC (EAPC)	-0.9★	-0.8★	-1.1★	-1.0★	-0.9★	-1.1★	-0.2	0.9	-1.0★
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	0.5	-0.4	2.2	0.8	-0.2	2.2	4.2	3.5	7.7
Est. Annual PC (EAPC)	0.3	0.3	0.5	0.3	0.2	0.6	0.6	1.2	0.8
<u>1990-94 - ALL AGES</u>									
Percent Change (PC)	-7.6	-10.2	-5.1	-8.7	-12.0	-5.6	-3.6	-0.1	-7.8
Est. Annual PC (EAPC)	-2.7★◆	-3.5★◆	-2.0★◆	-3.1★◆	-4.2★◆	-2.2★◆	-0.8	1.2	-2.8

§ The Est. Annual PC is the Estimated Annual Percent Change (EAPC) over the time interval.
 SEER Program.

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

◆ The EAPC for 1990-94 is significantly different from the EAPC for 1975-79 ($p < .05$).

◇ The EAPC for 1990-94 is significantly different from the EAPC for 1975-79 ($p < .10$).

- Statistic could not be calculated.

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	46.4	53.2	41.6	46.9	54.3	41.7	42.4	42.8	41.8
1974	47.7	56.2	41.6	48.4	57.4	41.9	41.6	46.8	37.8
1975	47.4	54.1	42.7	47.8	55.1	42.9	45.4	47.6	43.5
1976	49.1	57.3	43.1	49.6	57.8	43.7	44.4	48.9	40.3
1977	49.5	58.0	43.5	50.0	58.7	43.9	47.9	58.1	41.3
1978	49.4	57.2	43.9	49.9	58.4	44.1	49.4	51.3	48.5
1979	49.3	58.3	43.0	49.6	59.0	43.1	46.7	49.9	44.5
1980	50.4	58.7	44.5	50.4	58.6	44.6	55.6	63.5	49.5
1981	50.9	59.9	44.4	51.2	60.3	44.8	50.4	58.2	44.9
1982	49.7	59.2	42.9	50.1	59.9	43.3	48.9	55.0	44.5
1983	50.4	59.9	43.6	50.7	60.4	43.8	53.8	61.0	49.0
1984	51.5	61.6	44.2	52.2	62.9	44.6	49.9	54.8	47.1
1985	52.8	63.0	45.2	53.2	63.4	45.8	52.2	60.7	46.0
1986	51.1	61.8	43.3	51.2	62.3	43.1	52.7	59.8	47.6
1987	49.8	61.2	41.6	49.6	61.3	41.2	53.3	61.3	48.0
1988	48.6	59.5	40.6	48.5	59.8	40.3	50.9	58.1	46.0
1989	48.8	59.4	41.0	48.7	59.2	41.0	52.6	64.4	44.5
1990	48.2	58.8	40.4	48.0	58.9	40.1	53.6	59.9	49.4
1991	47.3	57.9	39.4	46.9	57.8	38.9	53.0	62.5	46.2
1992	46.3	56.3	38.9	46.0	56.2	38.3	52.6	62.9	45.9
1993	45.2	54.4	38.2	44.6	53.8	37.6	51.5	61.4	44.5
1994	44.0	52.9	37.2	43.3	52.2	36.4	51.3	59.1	46.3
<u>AGE-ADJUSTED RATES, 1990-94</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	46.2	56.0	38.8	45.7	55.7	38.2	52.4	61.2	46.4
Under 65	17.7	20.7	14.9	17.0	20.1	14.2	22.9	25.3	20.9
65 and over	306.3	378.7	256.6	307.8	381.3	257.7	321.4	388.0	279.1
All ages (world std.) ⁸	34.8	42.0	29.2	34.3	41.6	28.6	40.3	46.6	35.9
<u>AGE-SPECIFIC RATES, 1990-94</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-14	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.2	0.0
15-19	0.1	0.1	0.2	0.1	0.1	0.2	0.0	0.0	0.0
20-24	0.5	0.6	0.4	0.5	0.5	0.4	0.5	0.5	0.5
25-29	1.6	1.6	1.5	1.4	1.4	1.3	1.7	2.3	1.2
30-34	3.3	3.8	2.8	3.0	3.6	2.4	4.1	2.9	5.1
35-39	6.4	6.9	6.0	5.8	6.2	5.4	9.9	10.6	9.3
40-44	12.7	12.8	12.6	11.9	12.0	11.8	17.3	18.1	16.6
45-49	24.7	27.0	22.5	22.7	24.8	20.6	36.5	41.3	32.2
50-54	49.9	57.2	42.8	46.5	54.5	38.7	71.9	71.8	72.0
55-59	88.4	106.5	71.6	86.5	105.4	68.3	112.6	127.7	100.4
60-64	140.3	168.5	115.1	138.6	166.1	113.5	166.3	192.5	145.7
65-69	206.4	260.4	161.9	207.0	261.7	161.3	224.2	268.8	190.1
70-74	281.5	346.0	232.0	281.2	345.5	231.7	318.4	374.3	279.7
75-79	367.8	452.5	310.6	369.9	453.8	313.6	375.0	464.5	319.9
80-84	457.5	569.8	395.3	461.4	577.2	399.1	466.4	588.6	401.8
85+	473.1	567.6	436.4	480.4	583.3	442.1	427.1	491.7	399.4

[§] SEER Program. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, except where noted.

⁸ SEER Program. Rates are per 100,000 and are age-adjusted to the world standard population.

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	31.7	34.2	30.2	32.0	34.8	30.3	30.9	31.7	30.0
1974	32.9	36.9	30.2	33.4	37.6	30.5	30.0	34.4	27.0
1975	32.6	35.5	30.8	32.9	36.1	30.9	33.7	34.7	32.7
1976	34.1	37.7	31.7	34.4	37.9	32.0	34.1	35.8	32.5
1977	34.6	38.8	31.8	35.1	39.2	32.3	35.4	43.9	30.0
1978	34.6	38.4	32.0	34.7	39.0	32.0	37.9	37.9	38.3
1979	34.3	39.0	31.0	34.4	39.5	30.9	35.3	36.3	34.6
1980	35.5	39.3	33.0	35.4	39.3	32.9	43.1	45.8	41.1
1981	35.6	40.0	32.6	35.8	40.3	32.8	37.7	40.7	35.7
1982	35.8	41.6	31.7	35.9	42.0	31.7	38.2	41.6	35.6
1983	36.0	41.3	32.3	36.2	41.5	32.5	40.1	46.4	36.1
1984	36.5	42.5	32.3	36.8	43.3	32.3	38.8	41.8	37.3
1985	37.6	43.2	33.6	37.8	43.4	33.9	40.7	46.9	36.1
1986	36.8	42.6	32.5	36.8	43.0	32.3	40.0	44.5	37.1
1987	35.4	42.4	30.6	35.1	42.1	30.3	41.3	47.5	37.2
1988	34.6	41.1	30.0	34.4	41.2	29.6	39.2	43.1	36.6
1989	34.6	40.8	30.1	34.5	40.5	30.2	40.0	48.9	34.1
1990	34.6	40.5	30.3	34.3	40.2	30.1	41.7	46.4	38.6
1991	34.2	40.6	29.5	33.8	40.4	28.9	41.2	46.3	37.7
1992	33.3	39.0	29.1	33.0	39.0	28.6	40.5	47.3	36.2
1993	32.7	38.3	28.5	32.1	37.8	27.8	40.6	47.0	36.2
1994	31.8	36.9	28.0	31.3	36.6	27.3	39.5	43.9	36.9
<u>AGE-ADJUSTED RATES, 1990-94</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	33.3	39.0	29.1	32.9	38.7	28.5	40.7	46.2	37.1
Under 65	11.9	13.3	10.5	11.4	12.9	9.9	16.8	18.0	15.8
65 and over	228.8	273.3	198.4	229.2	274.6	198.5	258.6	302.9	231.4
All ages (world std.) ⁸	24.8	28.9	21.6	24.4	28.6	21.1	31.0	34.7	28.4
<u>AGE-SPECIFIC RATES, 1990-94</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-14	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
15-19	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
20-24	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3
25-29	1.0	1.0	1.0	0.9	0.9	0.9	0.8	1.0	0.6
30-34	2.1	2.4	1.7	2.0	2.4	1.5	2.4	1.5	3.1
35-39	4.3	4.5	4.1	3.9	3.9	3.8	6.7	7.4	6.1
40-44	8.3	8.1	8.4	7.6	7.5	7.7	13.4	12.8	13.9
45-49	16.5	17.6	15.5	15.3	16.3	14.3	23.6	26.6	21.0
50-54	32.0	36.7	27.5	29.6	35.2	24.1	50.7	48.9	52.3
55-59	59.6	68.8	51.1	57.8	67.6	48.5	83.9	92.1	77.4
60-64	96.5	109.2	85.1	94.5	106.8	83.2	128.6	144.2	116.3
65-69	145.8	177.4	119.7	145.4	178.3	117.9	175.4	198.7	157.6
70-74	204.4	243.0	174.7	203.2	241.4	173.9	251.8	285.1	228.7
75-79	277.2	330.6	241.2	278.0	330.9	242.5	299.6	354.3	265.9
80-84	358.0	430.9	317.6	361.0	435.3	321.1	390.0	498.1	333.0
85+	382.5	442.9	359.1	387.9	453.5	363.4	366.3	424.1	341.4

[§] SEER Program. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, except where noted.

⁸ SEER Program. Rates are per 100,000 and are age-adjusted to the world standard population.

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	14.7	18.9	11.4	14.9	19.5	11.5	11.5	11.1	11.8
1974	14.8	19.2	11.4	15.0	19.8	11.4	11.5	12.4	10.9
1975	14.8	18.6	11.9	14.9	19.0	12.0	11.8	12.9	10.8
1976	15.0	19.6	11.5	15.2	19.9	11.8	10.2	13.1	7.8
1977	14.9	19.2	11.7	14.9	19.5	11.6	12.5	14.2	11.3
1978	14.8	18.8	11.9	15.2	19.4	12.1	11.5	13.4	10.2
1979	15.1	19.2	12.0	15.2	19.5	12.2	11.4	13.6	9.9
1980	14.9	19.4	11.5	15.0	19.3	11.8	12.5	17.7	8.5
1981	15.2	19.8	11.9	15.4	20.0	12.1	12.7	17.5	9.3
1982	13.9	17.6	11.3	14.2	17.9	11.5	10.7	13.4	8.9
1983	14.4	18.6	11.2	14.6	18.9	11.4	13.7	14.6	12.9
1984	15.1	19.1	12.0	15.5	19.6	12.3	11.1	13.0	9.8
1985	15.1	19.7	11.7	15.4	20.0	12.0	11.5	13.8	9.9
1986	14.4	19.2	10.7	14.4	19.3	10.8	12.7	15.4	10.5
1987	14.3	18.8	11.0	14.5	19.2	10.9	11.9	13.7	10.9
1988	13.9	18.4	10.6	14.0	18.6	10.7	11.8	15.0	9.4
1989	14.2	18.5	10.9	14.2	18.7	10.8	12.6	15.5	10.4
1990	13.6	18.4	10.1	13.7	18.7	10.1	11.9	13.6	10.8
1991	13.1	17.4	9.9	13.1	17.3	9.9	11.7	16.2	8.5
1992	13.1	17.3	9.8	13.0	17.3	9.7	12.1	15.5	9.7
1993	12.5	16.1	9.7	12.5	16.1	9.8	10.9	14.5	8.3
1994	12.2	16.0	9.2	12.0	15.7	9.1	11.8	15.3	9.4
<u>AGE-ADJUSTED RATES, 1990-94</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	12.9	17.0	9.7	12.9	17.0	9.7	11.7	15.0	9.3
Under 65	5.8	7.3	4.4	5.7	7.2	4.3	6.1	7.3	5.1
65 and over	77.5	105.4	58.2	78.5	106.7	59.2	62.8	85.1	47.7
All ages (world std.) ⁸	10.0	13.1	7.6	10.0	13.1	7.5	9.3	11.9	7.5
<u>AGE-SPECIFIC RATES, 1990-94</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-14	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0
15-19	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0
20-24	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2
25-29	0.6	0.7	0.4	0.5	0.5	0.4	0.9	1.2	0.6
30-34	1.2	1.3	1.1	1.1	1.2	0.9	1.7	1.4	1.9
35-39	2.2	2.4	1.9	1.9	2.2	1.6	3.2	3.2	3.2
40-44	4.4	4.6	4.2	4.3	4.5	4.1	3.9	5.3	2.7
45-49	8.2	9.4	7.0	7.4	8.5	6.3	12.8	14.7	11.2
50-54	17.8	20.5	15.3	16.9	19.3	14.6	21.2	23.0	19.6
55-59	28.8	37.7	20.5	28.6	37.8	19.8	28.6	35.6	23.0
60-64	43.8	59.3	30.0	44.1	59.3	30.2	37.7	48.3	29.3
65-69	60.7	83.0	42.2	61.6	83.4	43.4	48.8	70.2	32.5
70-74	77.1	103.0	57.3	77.9	104.1	57.8	66.6	89.2	51.0
75-79	90.6	121.9	69.4	91.9	122.9	71.1	75.4	110.2	54.0
80-84	99.5	138.8	77.7	100.4	141.9	78.0	76.3	90.6	68.8
85+	90.6	124.7	77.3	92.6	129.8	78.7	60.9	67.6	58.0

[§] SEER Program. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, except where noted.

⁸ SEER Program. Rates are per 100,000 and are age-adjusted to the world standard population.

Table VI-6
COLON AND RECTUM CANCER (Invasive)

U.S. MORTALITY RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES*, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
AGE-ADJUSTED RATES									
YEAR OF DEATH:									
1973	21.9	24.9	19.8	22.0	25.3	19.8	21.0	22.0	20.4
1974	22.2	25.8	19.7	22.3	26.0	19.8	21.2	23.6	19.5
1975	21.7	25.3	19.3	21.9	25.6	19.3	21.5	23.9	19.7
1976	22.0	25.6	19.5	22.1	25.9	19.5	22.3	24.4	20.8
1977	21.8	25.6	19.1	21.8	25.7	19.1	22.0	25.0	19.9
1978	21.9	25.9	19.2	22.0	26.1	19.2	21.9	24.4	20.2
1979	21.7	25.7	18.9	21.7	25.9	18.8	22.4	24.8	20.8
1980	21.5	25.8	18.6	21.5	25.9	18.5	22.7	26.1	20.3
1981	21.1	25.2	18.2	21.1	25.3	18.1	22.7	25.7	20.7
1982	20.9	25.2	18.0	20.8	25.2	17.8	23.0	26.4	20.6
1983	20.8	25.3	17.7	20.8	25.4	17.6	22.7	26.1	20.3
1984	21.0	25.3	18.0	20.9	25.3	17.8	23.3	27.3	20.6
1985	20.6	25.1	17.5	20.5	25.1	17.2	24.0	27.0	21.8
1986	20.1	24.5	17.0	19.9	24.5	16.7	23.3	27.5	20.6
1987	19.9	24.4	16.7	19.6	24.3	16.4	23.7	27.8	20.9
1988	19.3	23.7	16.3	19.1	23.6	16.0	22.9	27.0	20.2
1989	19.1	23.5	15.9	18.8	23.2	15.6	23.5	28.3	20.3
1990	18.8	23.4	15.6	18.4	23.1	15.2	24.0	29.2	20.7
1991	18.3	22.6	15.4	18.0	22.3	15.0	23.3	27.7	20.5
1992	18.0	22.3	15.0	17.7	22.0	14.6	23.0	28.0	19.8
1993	17.9	21.8	15.0	17.5	21.5	14.5	23.3	27.9	20.3
1994	17.6	21.7	14.6	17.2	21.3	14.3	22.8	27.9	19.4
AGE-ADJUSTED RATES, 1990-94									
AGE AT DEATH:									
All ages	18.1	22.4	15.1	17.8	22.0	14.7	23.3	28.1	20.2
Under 65	6.0	7.2	5.0	5.8	6.9	4.8	8.8	10.4	7.5
65 and over	128.4	161.1	107.1	127.0	160.2	105.3	155.6	189.6	135.3
All ages (world std.) ^N	13.3	16.4	11.1	13.0	16.1	10.7	17.5	21.0	15.1
AGE-SPECIFIC RATES, 1990-94									
AGE AT DEATH:									
0-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
15-19	0.1	0.1	0.1	0.1	0.1	0.0	0.2	0.2	0.1
20-24	0.2	0.2	0.1	0.2	0.2	0.1	0.3	0.4	0.2
25-29	0.5	0.5	0.4	0.4	0.5	0.4	0.8	1.1	0.6
30-34	0.9	1.0	0.9	0.9	0.9	0.8	1.4	1.7	1.2
35-39	2.0	2.1	1.8	1.8	2.0	1.6	3.2	3.4	3.0
40-44	4.1	4.4	3.8	3.8	4.1	3.5	6.7	7.4	6.1
45-49	8.3	9.3	7.4	7.8	8.7	6.8	13.9	15.7	12.4
50-54	16.9	19.6	14.3	16.0	18.7	13.4	26.9	30.7	23.7
55-59	30.2	35.8	25.1	29.1	34.6	23.8	44.3	52.5	37.7
60-64	49.1	60.5	39.0	48.1	59.4	37.9	64.1	78.9	52.9
65-69	74.1	93.7	58.2	72.6	92.5	56.2	97.7	118.0	82.7
70-74	105.8	132.7	85.5	104.2	131.6	83.3	135.0	161.3	117.4
75-79	147.4	186.9	121.3	146.1	185.8	119.7	177.9	221.7	151.9
80-84	205.2	258.5	176.3	203.8	258.3	174.3	241.6	295.3	214.1
85+	296.3	362.7	270.8	296.7	363.9	271.3	310.8	381.0	281.9

* NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, except where noted.

^N NCHS public use tape. Rates are per 100,000 and are age-adjusted to the world standard population.

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
<u>5-YR RELATIVE SURVIVAL RATES</u>									
YEAR OF DIAGNOSIS:									
1960-63 ^a	-	-	-	-	-	-	-	-	-
1970-73 ^a	-	-	-	-	-	-	-	-	-
1974-76 ^b	49.5	48.7	50.3	49.8	49.0	50.5	44.6	41.4	47.3
1977-79 ^b	51.8	50.5	53.0	52.2	51.1	53.2	45.5	43.5	47.1
1980-82 ^b	54.3	53.7	54.8	54.8	54.4	55.2	46.3	43.3	48.9
1983-85 ^b	57.4	57.6	57.2	58.3	58.6	58.0	47.7	46.8	48.5
1986-93 ^b	61.5S	62.0S	61.0S	62.3S	62.9S	61.8S	52.4S	51.5S	53.2S
1986-93 ^b									
ALL STAGES	61.5	62.0	61.0	62.3	62.9	61.8	52.4	51.5	53.2
LOCALIZED	91.6	92.3	90.8	92.2	93.0	91.4	85.8	86.7	85.0
REGIONAL	63.8	63.9	63.8	64.4	64.7	64.1	59.8	57.5	61.5
DISTANT	7.3	6.8	7.8	7.5	6.8	8.3	4.8	6.0	3.7
UNSTAGED	33.9	37.1	30.5	34.1	38.5	29.8	32.9	32.0	34.1

STAGE DISTRIBUTION (%) 1986-93^b

ALL STAGES									
Number of cases	82,623	42,284	40,339	71,167	36,381	34,786	6,812	3,255	3,557
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	37	38	36	38	39	37	32	32	33
REGIONAL	37	36	38	37	36	38	35	35	36
DISTANT	20	20	19	19	20	19	25	26	24
UNSTAGED	6	6	6	6	6	6	8	7	8

5-YR RELATIVE SURVIVAL RATES, 1986-93^b

AGE AT DIAGNOSIS:									
<45	57.1	55.7	58.7	58.4	56.7	60.2	52.3	49.7	54.7
45-54	61.9	60.4	63.6	62.9	61.7	64.5	54.8	50.7	59.4
55-64	63.2	63.1	63.5	63.6	63.5	63.7	57.9	56.6	59.1
65-74	63.4	65.0	61.6	64.4	66.1	62.5	51.9	52.9	51.1
75+	58.6	58.2	58.9	59.6	59.4	59.8	45.1	42.6	46.7
Under 65	62.1	61.5	62.8	62.7	62.2	63.4	56.0	53.6	58.3
65 and over	61.2	62.4	60.2	62.2	63.5	61.0	49.3	49.3	49.2

- ^a Rates are based on End Results data from a series of hospital registries and one population-based registry.
- ^b Rates are from the SEER Program. 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 through 1994.
- S** The difference in rates between 1974-76 and 1986-93 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-8
COLON CANCER (Invasive)

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

	<u>All Races</u>			<u>Whites</u>			<u>Blacks</u>		
	<u>Total</u>	<u>Males</u>	<u>Females</u>	<u>Total</u>	<u>Males</u>	<u>Females</u>	<u>Total</u>	<u>Males</u>	<u>Females</u>
<u>5-YR RELATIVE SURVIVAL RATES</u>									
YEAR OF DIAGNOSIS:									
1960-63 ^a	-	-	-	43	42	44	34	32	35
1970-73 ^a	-	-	-	49	47	50	37	36	38
1974-76 ^b	50.1	49.4	50.7	50.4	49.7	50.9	45.6	44.1	46.7
1977-79 ^b	52.7	51.5	53.7	52.9	51.7	53.8	47.9	45.4	49.8
1980-82 ^b	55.3	55.6	55.1	55.6	56.0	55.3	49.0	46.3	51.0
1983-85 ^b	58.2	58.9	57.6	59.1	59.9	58.4	48.9	48.3	49.5
1986-93 ^b	62.2 S	63.1 S	61.4 S	63.1 S	64.2 S	62.1 S	52.6 S	51.6 S	53.3 S
1986-93 ^b									
ALL STAGES	62.2	63.1	61.4	63.1	64.2	62.1	52.6	51.6	53.3
LOCALIZED	93.4	94.7	92.2	94.2	95.6	92.8	86.9	87.2	86.8
REGIONAL	67.0	67.2	66.9	67.5	68.0	67.0	64.1	61.9	65.6
DISTANT	8.0	7.7	8.2	8.3	7.8	8.7	4.9	6.0	3.8
UNSTAGED	31.5	36.0	27.5	32.0	38.0	27.0	29.1	30.9 [†]	27.8

STAGE DISTRIBUTION (%) 1986-93^b

ALL STAGES									
Number of cases	58,902	28,788	30,114	50,563	24,667	25,896	5,218	2,423	2,795
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	35	37	34	36	37	34	30	30	30
REGIONAL	38	37	40	39	37	40	36	35	37
DISTANT	21	22	21	21	21	20	27	29	26
UNSTAGED	5	5	6	5	5	6	7	6	7

5-YR RELATIVE SURVIVAL RATES, 1986-93^b

AGE AT DIAGNOSIS:									
<45	57.0	57.4	56.6	58.3	58.6	57.9	51.6	49.8	52.9
45-54	60.8	60.4	61.3	62.0	61.8	62.3	54.6	52.2	56.8
55-64	63.6	64.1	63.0	63.8	64.5	63.0	57.9	56.9	58.8
65-74	64.2	66.3	62.0	65.2	67.4	63.0	52.0	53.0	51.3
75+	60.3	59.9	60.6	61.3	61.2	61.4	46.6	42.2	49.4
Under 65	62.0	62.3	61.7	62.7	63.1	62.2	55.8	54.4	57.2
65 and over	62.3	63.7	61.2	63.3	64.9	62.1	49.9	49.2	50.5

^a

^b

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

Rates are from the SEER Program. 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 through 1994.

S

The difference in rates between 1974-76 and 1986-93 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

	<u>All Races</u>			<u>Whites</u>			<u>Blacks</u>		
	<u>Total</u>	<u>Males</u>	<u>Females</u>	<u>Total</u>	<u>Males</u>	<u>Females</u>	<u>Total</u>	<u>Males</u>	<u>Females</u>
<u>5-YR RELATIVE SURVIVAL RATES</u>									
YEAR OF DIAGNOSIS:									
1960-63 ^a	-	-	-	38	36	41	27	28	27
1970-73 ^a	-	-	-	45	43	48	30	20	40
1974-76 ^b	48.3	47.4	49.4	48.7	47.8	49.7	42.0	34.7	49.1
1977-79 ^b	49.8	48.8	51.0	50.6	49.8	51.6	38.6	38.4	38.9
1980-82 ^b	52.0	50.2	54.0	53.0	51.4	54.7	37.8	35.9	40.3
1983-85 ^b	55.5	55.0	56.2	56.5	56.0	57.0	43.9	42.4	45.3
1986-93 ^b	59.9 S	59.7 S	60.1 S	60.6 S	60.4 S	60.8 S	52.1 S	51.0 S	53.0
1986-93 ^b									
ALL STAGES	59.9	59.7	60.1	60.6	60.4	60.8	52.1	51.0	53.0
LOCALIZED	87.8	88.0	87.6	88.4	88.5	88.4	82.9	85.5	80.6
REGIONAL	55.4	56.7	53.7	56.3	57.6	54.6	45.7	46.1	45.0
DISTANT	5.2	4.7	6.0	5.2	4.4	6.5	4.6	5.9	2.9
UNSTAGED	37.5	38.6	36.1	37.2	39.2	34.6	40.9 [↑]	34.0 [↑]	50.2 [↑]
<u>STAGE DISTRIBUTION (%) 1986-93^b</u>									
ALL STAGES									
Number of cases	23,721	13,496	10,225	20,604	11,714	8,890	1,594	832	762
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	42	41	43	42	42	43	38	36	41
REGIONAL	35	35	34	35	35	34	34	36	31
DISTANT	16	16	15	16	16	15	18	19	17
UNSTAGED	8	7	8	8	7	8	10	10	10
<u>5-YR RELATIVE SURVIVAL RATES, 1986-93^b</u>									
AGE AT DIAGNOSIS:									
<45	57.4	52.4	63.2	58.5	52.9	64.8	54.3 [↑]	49.5 [↑]	60.0 [↑]
45-54	63.8	60.7	68.4	64.5	61.7	68.7	55.3	48.2 [↑]	65.9 [↑]
55-64	62.6	61.4	64.8	63.1	61.8	65.4	58.1	56.0	60.2
65-74	61.6	62.5	60.4	62.5	63.4	61.3	51.6	52.3	50.7
75+	53.3	53.8	53.0	54.3	54.7	54.0	39.0	44.2 [↑]	35.9 [↑]
Under 65	62.2	60.2	65.4	62.8	60.8	66.1	56.5	52.0	62.0
65 and over	58.2	59.4	56.9	59.1	60.2	57.8	46.9	49.7	44.6

^a

^b

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

Rates are from the SEER Program. 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 through 1994.

S

The difference in rates between 1974-76 and 1986-93 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-10
COLON AND RECTUM CANCER (Invasive)

INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Males and Females

	Year of Diagnosis/Death																					
	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Incidence																						
SEER	46.4	47.7	47.4	49.1	49.5	49.4	49.3	50.4	50.9	49.7	50.4	51.5	52.8	51.1	49.8	48.6	48.8	48.2	47.3	46.3	45.2	44.0
Mortality																						
U.S.	21.9	22.2	21.7	22.0	21.8	21.9	21.7	21.5	21.1	20.9	20.8	21.0	20.6	20.1	19.9	19.3	19.1	18.8	18.3	18.0	17.9	17.6
SEER	21.8	22.6	22.0	22.1	22.2	22.0	21.8	21.1	20.6	20.7	19.6	20.3	20.8	19.2	19.0	18.4	18.7	17.8	17.3	17.0	16.9	17.1
Relative Survival Rates (SEER)																						
1-year	70.9	72.2	73.1	74.7	74.6	74.9	76.0	75.6	78.5	78.4	78.2	79.1	80.0	81.5	81.1	80.7	81.5	82.1	82.7	81.9	80.9	
2-year	60.2	61.3	61.4	62.9	63.5	64.6	65.5	65.3	68.7	68.0	67.7	68.9	71.2	72.4	72.4	72.4	72.8	73.8	74.2	73.3		
3-year	53.8	54.6	55.7	56.8	57.3	58.2	58.8	58.5	62.0	62.2	61.6	62.8	65.5	67.2	66.9	67.1	68.2	69.0	68.8			
4-year	49.4	50.6	51.7	53.0	53.8	54.3	55.2	54.8	57.6	58.3	57.9	59.2	62.0	63.6	63.1	63.7	64.4	64.9				
5-year	46.8	48.2	49.1	51.1	51.1	51.5	52.8	52.2	55.3	55.3	55.9	56.5	59.7	61.3	60.9	61.3	61.8					
6-year	45.8	46.6	47.3	49.5	49.3	49.6	51.1	50.5	53.6	53.5	53.9	54.9	58.1	59.4	59.2	59.8						
7-year	44.8	45.4	46.2	48.6	48.4	48.6	49.8	49.4	52.1	52.4	52.7	53.6	56.9	58.1	57.5							
8-year	44.5	45.0	45.4	47.9	47.4	48.0	48.9	48.4	51.5	51.3	51.7	53.2	56.2	56.9								
9-year	44.0	44.3	45.1	47.4	46.6	47.6	48.5	47.9	50.8	51.1	51.0	52.5	55.3									
10-year	43.4	44.1	44.3	47.0	46.3	46.9	48.0	47.5	50.4	51.0	50.3	51.4										
11-year	43.3	43.6	44.0	46.7	46.3	46.6	47.4	47.0	50.4	50.5	49.5											
12-year	42.6	43.4	44.0	46.0	46.1	46.6	47.0	47.0	50.4	50.0												
13-year	42.5	43.4	43.7	45.6	46.1	46.4	46.9	47.0	50.4													
14-year	41.9	43.0	43.4	45.3	45.5	45.9	46.9	46.6														
15-year	41.3	42.9	42.9	45.0	45.4	45.9	46.9															
16-year	41.0	42.6	42.3	45.0	44.9	45.9																
17-year	40.4	42.6	42.1	45.0	44.5																	
18-year	40.3	42.6	42.0	45.0																		
19-year	40.1	42.6	42.0																			
20-year	40.1	42.6																				
21-year	39.9																					

Note: Incidence and mortality rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.

Survival rates are relative rates expressed as percents.

Table VI-11
COLON AND RECTUM CANCER (Invasive)
INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Males

	Year of Diagnosis/Death																						
	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	
Incidence																							
SEER	53.2	56.2	54.1	57.3	58.0	57.2	58.3	58.7	59.9	59.2	59.9	61.6	63.0	61.8	61.2	59.5	59.4	58.8	57.9	56.3	54.4	52.9	
Mortality																							
U.S.	24.9	25.8	25.3	25.6	25.6	25.9	25.7	25.8	25.2	25.2	25.3	25.3	25.1	24.5	24.4	23.7	23.5	23.4	22.6	22.3	21.8	21.7	
SEER	25.4	26.9	25.8	25.9	25.8	26.6	26.0	24.9	24.1	24.8	23.8	24.3	25.8	23.1	22.6	22.6	22.9	21.7	21.4	21.3	20.1	21.4	
Relative Survival Rates (SEER)																							
1-year	71.6	72.5	72.7	74.8	74.5	74.9	76.2	76.4	79.7	79.5	79.4	79.3	81.4	82.8	82.2	81.5	82.3	83.3	83.6	83.1	81.7		
2-year	60.5	61.6	61.8	62.6	62.9	65.0	65.5	66.0	69.1	68.5	68.8	68.5	72.7	73.8	73.7	74.1	73.9	74.8	75.3	74.4			
3-year	53.8	54.3	55.7	56.4	56.2	57.7	58.1	59.2	62.2	62.6	62.4	61.7	67.3	68.2	68.1	68.4	69.2	70.2	69.9				
4-year	48.6	50.1	51.6	52.5	52.6	53.2	53.8	55.0	57.6	57.9	58.8	57.9	63.3	64.6	63.7	63.9	65.2	65.7					
5-year	45.5	47.1	48.6	50.2	49.9	50.5	51.2	51.9	54.7	54.6	56.7	55.4	60.6	62.1	61.4	61.7	62.6						
6-year	44.4	45.4	46.2	48.2	47.9	48.2	49.3	50.1	52.5	52.9	54.5	53.4	58.9	59.8	60.2	60.1							
7-year	43.4	44.1	44.9	47.0	46.9	47.3	48.0	48.8	50.7	51.7	53.0	52.1	57.4	58.8	58.3								
8-year	43.1	43.7	43.9	46.1	46.1	46.7	46.8	47.9	50.6	50.6	51.3	51.6	57.0	58.0									
9-year	42.7	42.9	43.8	45.4	44.6	46.4	46.8	47.2	50.3	50.5	50.5	50.5	56.0										
10-year	41.9	42.6	42.8	44.9	44.4	45.6	46.1	47.1	49.8	50.2	49.8	49.7											
11-year	41.4	41.9	42.8	44.8	44.3	45.0	45.9	47.0	49.4	49.7	49.0												
12-year	40.8	41.1	42.7	44.1	44.0	45.0	45.2	46.8	49.4	49.4													
13-year	40.8	41.0	42.7	43.2	43.9	44.9	45.2	46.8	49.4														
14-year	40.8	40.9	42.5	42.7	43.2	44.2	45.0	46.8															
15-year	40.7	40.9	42.5	42.7	43.2	44.2	45.0																
16-year	39.9	40.9	42.3	42.7	42.8	44.2																	
17-year	38.9	40.9	42.3	42.7	42.7																		
18-year	38.8	40.9	42.3	42.7																			
19-year	38.8	40.9	42.3																				
20-year	38.6	40.9																					
21-year	38.6																						

Note: Incidence and mortality rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.

Survival rates are relative rates expressed as percents.

Table VI-12
COLON AND RECTUM CANCER (Invasive)
INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Females

Year of Diagnosis/Death

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Incidence																						
SEER	41.6	41.6	42.7	43.1	43.5	43.9	43.0	44.5	44.4	42.9	43.6	44.2	45.2	43.3	41.6	40.6	41.0	40.4	39.4	38.9	38.2	37.2
Mortality																						
U.S.	19.8	19.7	19.3	19.5	19.1	19.2	18.9	18.6	18.2	18.0	17.7	18.0	17.5	17.0	16.7	16.3	15.9	15.6	15.4	15.0	15.0	14.6
SEER	19.3	19.6	19.4	19.4	19.8	18.8	18.9	18.5	18.2	18.0	16.8	17.5	17.3	16.4	16.6	15.4	15.8	15.2	14.5	14.0	14.6	14.0
Relative Survival Rates (SEER)																						
1-year	70.3	72.0	73.4	74.5	74.8	74.9	75.8	74.8	77.4	77.2	77.1	78.9	78.7	80.1	80.0	79.8	80.7	80.9	81.8	80.7	80.0	
2-year	59.8	61.1	61.0	63.2	64.1	64.1	65.5	64.6	68.2	67.6	66.6	69.3	69.7	71.1	70.9	70.7	71.7	72.9	73.1	72.2		
3-year	53.7	55.0	55.8	57.2	58.3	58.7	59.6	57.9	61.8	61.8	60.8	63.8	63.8	66.1	65.8	65.8	67.2	67.8	67.7			
4-year	50.1	51.2	51.8	53.5	54.9	55.3	56.5	54.7	57.6	58.6	57.2	60.5	60.8	62.6	62.5	63.5	63.6	64.0				
5-year	47.9	49.3	49.6	52.0	52.2	52.3	54.3	52.5	55.9	56.0	55.1	57.6	58.9	60.6	60.3	60.9	61.0					
6-year	47.1	47.7	48.2	50.7	50.6	50.9	52.8	50.9	54.6	54.2	53.4	56.3	57.4	59.1	58.3	59.4						
7-year	46.1	46.6	47.4	50.1	49.8	49.8	51.4	49.8	53.3	53.1	52.4	55.0	56.5	57.4	56.6							
8-year	45.8	46.2	46.7	49.6	48.5	49.1	50.8	48.8	52.3	52.0	52.0	54.8	55.6	55.9								
9-year	45.0	45.6	46.3	49.2	48.3	48.6	50.1	48.5	51.2	51.5	51.5	54.3	54.7									
10-year	44.7	45.4	45.6	48.9	47.9	48.1	49.7	47.9	50.9	51.5	50.8	53.0										
11-year	44.7	45.2	45.0	48.3	47.9	48.0	48.8	47.0	50.9	51.3	49.9											
12-year	44.2	45.2	45.0	47.7	47.9	48.0	48.6	47.0	50.9	50.7												
13-year	43.5	45.2	44.5	47.7	47.9	47.8	48.5	46.7	50.9													
14-year	42.5	44.8	44.1	47.6	47.5	47.3	48.5	46.2														
15-year	41.7	44.4	43.2	46.9	47.1	47.3	48.5															
16-year	41.7	43.8	42.4	46.6	46.6	47.3																
17-year	41.7	43.8	42.0	46.6	46.0																	
18-year	41.4	43.7	41.5	46.5																		
19-year	40.9	43.7	41.5																			
20-year	40.9	43.7																				
21-year	40.9																					

Note: Incidence and mortality rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.

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 With Cancer and
 Lifetime Risk (Percent) of Dying From Cancer

SEER Areas, 1992-94

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	5.88	0.00	0.00	0.01	5.72
10	0.00	0.01	0.06	5.95	0.00	0.01	0.05	5.77
20	0.01	0.06	0.24	5.99	0.01	0.05	0.21	5.79
30	0.05	0.23	0.91	6.08	0.04	0.21	0.71	5.81
40	0.19	0.88	2.48	6.19	0.16	0.68	1.83	5.82
50	0.73	2.40	4.56	6.28	0.52	1.70	3.54	5.77
60	1.83	4.19	5.78	6.07	1.24	3.18	5.00	5.54

Lifetime Risk of Being Diagnosed = 5.88% Lifetime Risk of Being Diagnosed = 5.72%
 Lifetime Risk of Dying = 2.57% Lifetime Risk of Dying = 2.53%

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	5.99	0.00	0.00	0.01	5.74
10	0.00	0.01	0.06	6.05	0.00	0.01	0.05	5.78
20	0.01	0.06	0.23	6.09	0.01	0.05	0.19	5.80
30	0.05	0.22	0.88	6.16	0.04	0.19	0.66	5.82
40	0.18	0.86	2.48	6.26	0.15	0.63	1.78	5.83
50	0.71	2.40	4.57	6.32	0.49	1.66	3.52	5.78
60	1.83	4.20	5.82	6.09	1.23	3.18	5.03	5.55

Lifetime Risk of Being Diagnosed = 5.99% Lifetime Risk of Being Diagnosed = 5.74%
 Lifetime Risk of Dying = 2.63% Lifetime Risk of Dying = 2.53%

Blacks

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.02	4.42	0.00	0.00	0.01	5.19
10	0.00	0.02	0.07	4.54	0.00	0.01	0.08	5.30
20	0.01	0.07	0.31	4.61	0.01	0.08	0.32	5.32
30	0.06	0.31	1.03	4.78	0.08	0.32	1.05	5.37
40	0.26	1.02	2.37	5.01	0.25	1.00	2.21	5.41
50	0.84	2.34	4.11	5.27	0.79	2.07	3.75	5.43
60	1.80	3.94	5.08	5.33	1.42	3.28	4.61	5.14

Lifetime Risk of Being Diagnosed = 4.42% Lifetime Risk of Being Diagnosed = 5.19%
 Lifetime Risk of Dying = 2.14% Lifetime Risk of Dying = 2.68%

Table VI-14
COLON AND RECTUM CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY* RATES BY STATE, 1990-94

All Races, Males and Females

State	Rate	SE	Rank	PD
TOTAL U.S.	18.1	0.03		
High Five States				
District of Columbia	22.1*	0.80	(01)	22.1
New Jersey	21.4⊕*	0.21	(02)	18.2
Maryland	20.9⊕*	0.28	(03)	15.5
Massachusetts	20.9⊕*	0.23	(04)	15.5
Maine	20.8⊕*	0.52	(05)	14.9
Low Five States				
Hawaii	15.2⊕*	0.49	(47)	-16.0
Idaho	14.4⊕*	0.49	(48)	-20.4
Wyoming	14.4*	0.77	(49)	-20.4
New Mexico	14.0⊕*	0.41	(50)	-22.7
Utah	13.4⊕*	0.42	(51)	-26.0

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	15.7⊕*	0.25	(43)	-13.3	Montana	16.6	0.57	(36)	-8.3
Alaska	19.9	1.25	(12)	9.9	Nebraska	17.7	0.42	(27)	-2.2
Arizona	15.3⊕*	0.26	(46)	-15.5	Nevada	17.7	0.50	(28)	-2.2
Arkansas	17.6	0.33	(31)	-2.8	New Hampshire	19.4	0.56	(14)	7.2
California	16.1⊕*	0.10	(40)	-11.0	New Jersey	21.4⊕*	0.21	(02)	18.2
Colorado	15.8⊕*	0.30	(41)	-12.7	New Mexico	14.0⊕*	0.41	(50)	-22.7
Connecticut	18.2	0.29	(22)	0.6	New York	20.1⊕*	0.13	(09)	11.0
Delaware	20.8*	0.72	(06)	14.9	North Carolina	17.1⊕	0.21	(33)	-5.5
District of Columbia	22.1*	0.80	(01)	22.1	North Dakota	18.1	0.67	(24)	0.0
Florida	16.9⊕	0.13	(34)	-6.6	Ohio	19.9⊕	0.17	(11)	9.9
Georgia	15.8⊕*	0.22	(42)	-12.7	Oklahoma	16.4⊕	0.29	(38)	-9.4
Hawaii	15.2⊕*	0.49	(47)	-16.0	Oregon	15.5⊕*	0.29	(45)	-14.4
Idaho	14.4⊕*	0.49	(48)	-20.4	Pennsylvania	20.5⊕*	0.16	(07)	13.3
Illinois	20.3⊕*	0.17	(08)	12.2	Rhode Island	20.0*	0.55	(10)	10.5
Indiana	19.3⊕	0.24	(15)	6.6	South Carolina	17.6	0.30	(30)	-2.8
Iowa	18.9	0.31	(16)	4.4	South Dakota	18.0	0.63	(25)	-0.6
Kansas	17.1	0.33	(32)	-5.5	Tennessee	17.6	0.24	(29)	-2.8
Kentucky	19.8⊕	0.30	(13)	9.4	Texas	16.6⊕	0.14	(35)	-8.3
Louisiana	18.6	0.28	(19)	2.8	Utah	13.4⊕*	0.42	(51)	-26.0
Maine	20.8⊕*	0.52	(05)	14.9	Vermont	18.1	0.75	(23)	0.0
Maryland	20.9⊕*	0.28	(03)	15.5	Virginia	18.3	0.23	(21)	1.1
Massachusetts	20.9⊕*	0.23	(04)	15.5	Washington	15.7⊕*	0.23	(44)	-13.3
Michigan	18.7	0.19	(18)	3.3	West Virginia	18.9	0.39	(17)	4.4
Minnesota	16.5⊕	0.25	(37)	-8.8	Wisconsin	17.8	0.24	(26)	-1.7
Mississippi	16.3⊕	0.33	(39)	-9.9	Wyoming	14.4*	0.77	(49)	-20.4
Missouri	18.4	0.23	(20)	1.7					

* NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.

SE Standard error of the rate.

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

* Absolute 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).

Table VI-15
COLON AND RECTUM CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY* RATES BY STATE, 1990-94

All Races, Males

State	Rate	SE	Rank	PD
TOTAL U.S.	22.4	0.06		
High Five States				
New Jersey	26.9 \oplus *	0.36	(01)	20.1
Massachusetts	26.7 \oplus *	0.42	(02)	19.2
District of Columbia	26.4*	1.39	(03)	17.9
Rhode Island	25.9*	0.98	(04)	15.6
Pennsylvania	25.7 \oplus *	0.27	(05)	14.7
Low Five States				
Oregon	18.5 \oplus *	0.48	(47)	-17.4
Idaho	17.9 \oplus *	0.81	(48)	-20.1
New Mexico	17.0 \oplus *	0.68	(49)	-24.1
Utah	16.9 \oplus *	0.71	(50)	-24.6
Wyoming	16.3*	1.24	(51)	-27.2

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	19.3 \oplus *	0.44	(41)	-13.8	Montana	20.5	0.95	(36)	-8.5
Alaska	22.0	1.96	(28)	-1.8	Nebraska	22.8	0.72	(21)	1.8
Arizona	18.9 \oplus *	0.43	(44)	-15.6	Nevada	21.4	0.84	(32)	-4.5
Arkansas	22.2	0.57	(25)	-0.9	New Hampshire	23.8	0.96	(13)	6.3
California	19.3 \oplus *	0.17	(43)	-13.8	New Jersey	26.9 \oplus *	0.36	(01)	20.1
Colorado	18.9 \oplus *	0.51	(46)	-15.6	New Mexico	17.0 \oplus *	0.68	(49)	-24.1
Connecticut	23.1	0.51	(18)	3.1	New York	25.1 \oplus *	0.24	(10)	12.1
Delaware	25.2*	1.24	(09)	12.5	North Carolina	20.6	0.36	(35)	-8.0
District of Columbia	26.4*	1.39	(03)	17.9	North Dakota	22.0	1.09	(27)	-1.8
Florida	20.7 \oplus	0.22	(34)	-7.6	Ohio	25.0 \oplus *	0.30	(11)	11.6
Georgia	19.7 \oplus *	0.39	(40)	-12.1	Oklahoma	20.1*	0.49	(39)	-10.3
Hawaii	19.3*	0.81	(42)	-13.8	Oregon	18.5 \oplus *	0.48	(47)	-17.4
Idaho	17.9 \oplus *	0.81	(48)	-20.1	Pennsylvania	25.7 \oplus *	0.27	(05)	14.7
Illinois	25.6 \oplus *	0.30	(06)	14.3	Rhode Island	25.9*	0.98	(04)	15.6
Indiana	23.4	0.41	(14)	4.5	South Carolina	22.1	0.53	(26)	-1.3
Iowa	23.0	0.53	(19)	2.7	South Dakota	21.5	1.03	(31)	-4.0
Kansas	21.6	0.57	(30)	-3.6	Tennessee	21.7	0.42	(29)	-3.1
Kentucky	24.1	0.51	(12)	7.6	Texas	20.7 \oplus	0.24	(33)	-7.6
Louisiana	22.9	0.49	(20)	2.2	Utah	16.9 \oplus *	0.71	(50)	-24.6
Maine	25.3*	0.88	(08)	12.9	Vermont	22.4	1.28	(24)	0.0
Maryland	25.6 \oplus *	0.49	(07)	14.3	Virginia	22.5	0.41	(23)	0.4
Massachusetts	26.7 \oplus *	0.42	(02)	19.2	Washington	18.9 \oplus *	0.39	(45)	-15.6
Michigan	23.2	0.32	(16)	3.6	West Virginia	23.3	0.67	(15)	4.0
Minnesota	20.3	0.43	(38)	-9.4	Wisconsin	22.7	0.41	(22)	1.3
Mississippi	20.3	0.57	(37)	-9.4	Wyoming	16.3*	1.24	(51)	-27.2
Missouri	23.1	0.41	(17)	3.1					

* NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.

SE Standard error of the rate.

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

* Absolute difference between state rate and total U.S. rate is 10% or more.

\oplus Difference between state rate and total U.S. rate is statistically significant ($p \leq .0002$).

Table VI-16
COLON AND RECTUM CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY* RATES BY STATE, 1990-94

All Races, Females

State	Rate	SE	Rank	PD
TOTAL U.S.	15.1	0.04		
High Five States				
District of Columbia	19.4*	0.97	(01)	28.5
Alaska	17.7*	1.61	(02)	17.2
Maryland	17.7*	0.34	(03)	17.2
New Jersey	17.6*	0.25	(04)	16.6
Delaware	17.6*	0.88	(05)	16.6
Low Five States				
Arizona	12.5*	0.31	(47)	-17.2
Idaho	11.9*	0.60	(48)	-21.2
New Mexico	11.7*	0.50	(49)	-22.5
Hawaii	11.5*	0.59	(50)	-23.8
Utah	10.8*	0.51	(51)	-28.5

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	13.2*	0.30	(46)	-12.6	Montana	13.4*	0.68	(41)	-11.3
Alaska	17.7*	1.61	(02)	17.2	Nebraska	13.7	0.49	(36)	-9.3
Arizona	12.5*	0.31	(47)	-17.2	Nevada	14.4	0.62	(29)	-4.6
Arkansas	14.2	0.40	(31)	-6.0	New Hampshire	16.2	0.67	(15)	7.3
California	13.7*	0.13	(35)	-9.3	New Jersey	17.6*	0.25	(04)	16.6
Colorado	13.6	0.37	(39)	-9.9	New Mexico	11.7*	0.50	(49)	-22.5
Connecticut	14.9	0.35	(26)	-1.3	New York	16.9*	0.16	(10)	11.9
Delaware	17.6*	0.88	(05)	16.6	North Carolina	14.6	0.25	(27)	-3.3
District of Columbia	19.4*	0.97	(01)	28.5	North Dakota	15.3	0.84	(22)	1.3
Florida	14.1*	0.16	(32)	-6.6	Ohio	16.5*	0.20	(12)	9.3
Georgia	13.3*	0.26	(45)	-11.9	Oklahoma	13.9	0.35	(33)	-7.9
Hawaii	11.5*	0.59	(50)	-23.8	Oregon	13.3*	0.36	(43)	-11.9
Idaho	11.9*	0.60	(48)	-21.2	Pennsylvania	16.9*	0.19	(09)	11.9
Illinois	16.6*	0.20	(11)	9.9	Rhode Island	16.3	0.65	(14)	7.9
Indiana	16.4	0.29	(13)	8.6	South Carolina	14.6	0.35	(28)	-3.3
Iowa	16.0	0.39	(16)	6.0	South Dakota	15.3	0.79	(21)	1.3
Kansas	13.8	0.40	(34)	-8.6	Tennessee	14.9	0.29	(25)	-1.3
Kentucky	16.9*	0.36	(08)	11.9	Texas	13.6*	0.16	(38)	-9.9
Louisiana	15.6	0.34	(18)	3.3	Utah	10.8*	0.51	(51)	-28.5
Maine	17.5*	0.62	(06)	15.9	Vermont	15.1	0.90	(24)	0.0
Maryland	17.7*	0.34	(03)	17.2	Virginia	15.4	0.28	(20)	2.0
Massachusetts	17.1*	0.28	(07)	13.2	Washington	13.3*	0.29	(44)	-11.9
Michigan	15.4	0.22	(19)	2.0	West Virginia	15.7	0.46	(17)	4.0
Minnesota	13.7	0.31	(37)	-9.3	Wisconsin	14.3	0.29	(30)	-5.3
Mississippi	13.3*	0.39	(42)	-11.9	Wyoming	13.4*	1.01	(40)	-11.3
Missouri	15.1	0.28	(23)	0.0					

* NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.

SE Standard error of the rate.

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

* Absolute 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).

Table VI-17
COLON AND RECTUM CANCER (Invasive)

AGE-ADJUSTED SEER INCIDENCE RATES§, SEER MORTALITY RATES*, AND 5-YEAR RELATIVE SURVIVAL RATES‡
By Registry, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>SEER INCIDENCE RATES§, 1990-94</u>									
REGISTRY									
Standard 9 registries	46.2	56.0	38.8	45.7	55.7	38.2	52.4	61.2	46.4
San Francisco-Oakland	45.8	56.1	38.0	46.3	56.9	38.2	53.0	64.3	44.9
Connecticut	49.5	61.5	40.9	49.5	61.6	40.7	50.7	63.3	42.8
Metropolitan Detroit	49.7	61.8	41.2	48.3	61.8	38.8	53.5	60.7	48.6
Hawaii	46.8	58.0	36.7	51.2	61.4	41.2	-	-	-
Iowa	51.0	59.7	44.5	51.0	59.7	44.5	-	-	-
New Mexico	34.0	41.0	28.4	34.8	42.0	29.0	-	-	-
Seattle-Puget Sound	43.6	52.2	36.8	42.9	51.2	36.4	51.2	73.6	30.9
Utah	34.6	42.8	27.9	34.4	42.7	27.8	-	-	-
Metropolitan Atlanta	45.5	53.4	40.3	43.2	51.1	37.6	52.4	59.5	48.7
San Jose-Monterey	42.8	50.5	37.0	43.6	51.3	37.9	48.4	62.2	36.0
Los Angeles	42.2	51.6	35.2	41.5	51.3	34.2	50.2	57.4	45.1
<u>SEER MORTALITY RATES*, 1990-94</u>									
REGISTRY									
Standard 9 registries	17.2	21.2	14.4	17.0	21.1	14.2	22.8	26.7	20.2
San Francisco-Oakland	17.0	20.3	14.7	17.0	20.5	14.5	23.8	26.5	21.8
Connecticut	18.2	23.1	14.9	18.1	23.0	14.8	19.6	24.3	16.2
Metropolitan Detroit	19.3	24.5	15.8	18.3	23.9	14.7	23.1	26.9	20.5
Hawaii	15.2	19.3	11.5	17.7	22.1	13.7	-	-	-
Iowa	18.9	23.0	16.0	18.9	23.0	16.0	-	-	-
New Mexico	14.0	17.0	11.7	14.4	17.3	12.1	-	-	-
Seattle-Puget Sound	15.9	19.2	13.6	15.9	19.0	13.6	21.2	29.5	14.2
Utah	13.4	16.9	10.8	13.6	17.0	11.0	-	-	-
Metropolitan Atlanta	16.6	20.3	14.3	14.9	18.7	12.3	23.6	27.6	21.8
San Jose-Monterey	15.9	19.4	13.2	16.3	19.8	13.6	26.5	30.1	24.0
Los Angeles	16.2	19.5	13.8	15.8	19.2	13.3	22.8	26.5	20.2
<u>SURVIVAL RATES‡, 1986-93</u>									
REGISTRY									
Standard 9 registries	61.5	62.0	61.0	62.3	62.9	61.8	52.4	51.5	53.2
San Francisco-Oakland	61.8	62.9	60.7	63.4	65.0	61.9	53.0	52.1	53.7
Connecticut	61.8	62.4	61.1	62.0	62.6	61.4	58.1	59.0	57.3
Metropolitan Detroit	57.3	57.8	56.8	59.0	59.7	58.3	50.6	49.9	51.2
Hawaii	65.7	66.5	64.7	67.0	70.8	61.8	-	-	-
Iowa	62.5	61.6	63.4	62.6	61.7	63.5	-	-	-
New Mexico	60.5	61.1	59.9	60.7	61.6	59.7	-	-	-
Seattle-Puget Sound	64.2	65.3	63.2	64.6	65.8	63.5	58.1	54.7†	63.5†
Utah	62.1	63.6	60.4	62.1	63.7	60.3	-	-	-
Metropolitan Atlanta	61.3	60.2	62.2	64.6	63.4	65.8	51.5	49.0	53.1

Note: San Jose-Monterey and Los Angeles are new SEER areas as of 1992 and their data are only used in this table and not other tables in this section.

§ SEER Program. Incidence rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.

* NCHS public use tape. Mortality rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.

‡ Survival rates are relative rates expressed as percents and are based on follow-up of patients through 1994.

† 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 or populations are inadequate.

SEER Incidence and U.S. Mortality Colon & Rectum, Male By Race

White

Black

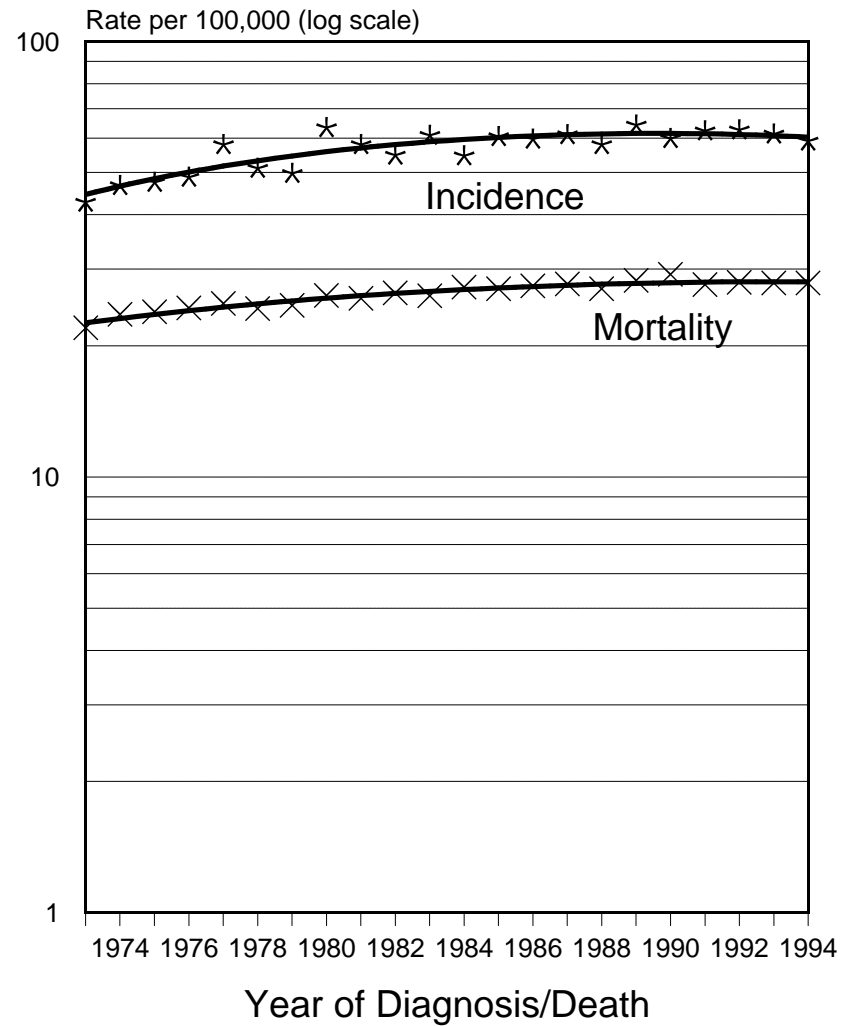
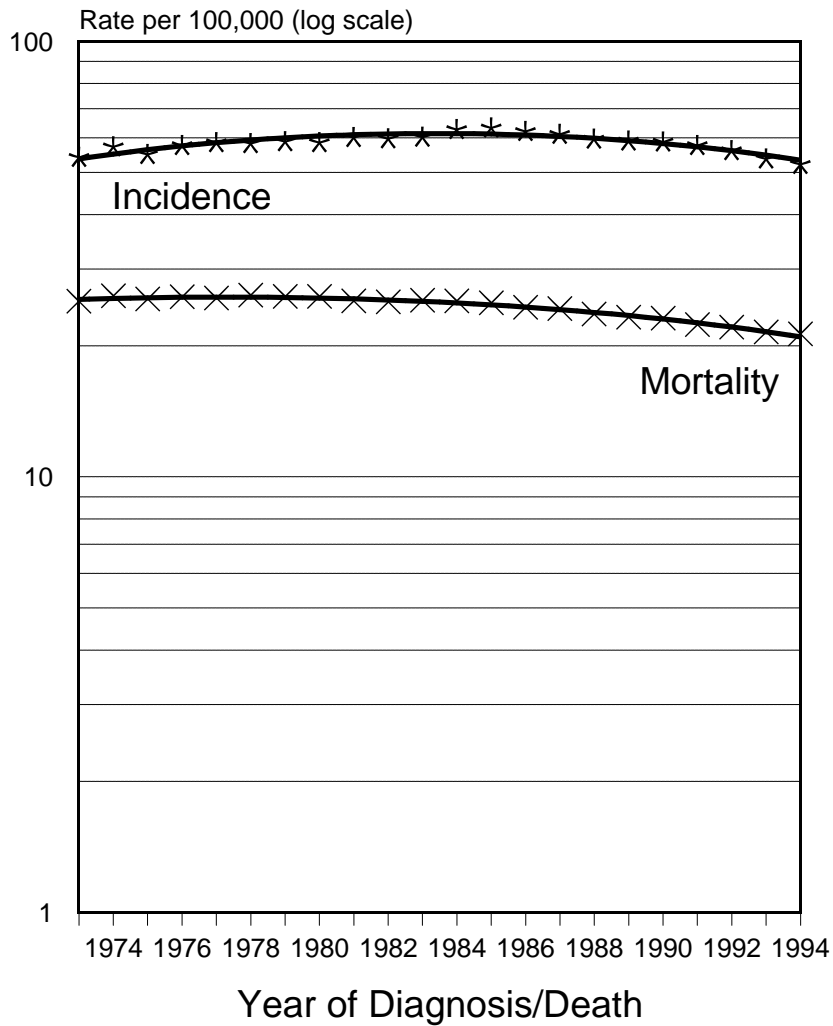


Figure VI-1

SEER Incidence and U.S. Mortality Colon & Rectum, Female By Race

White

Black

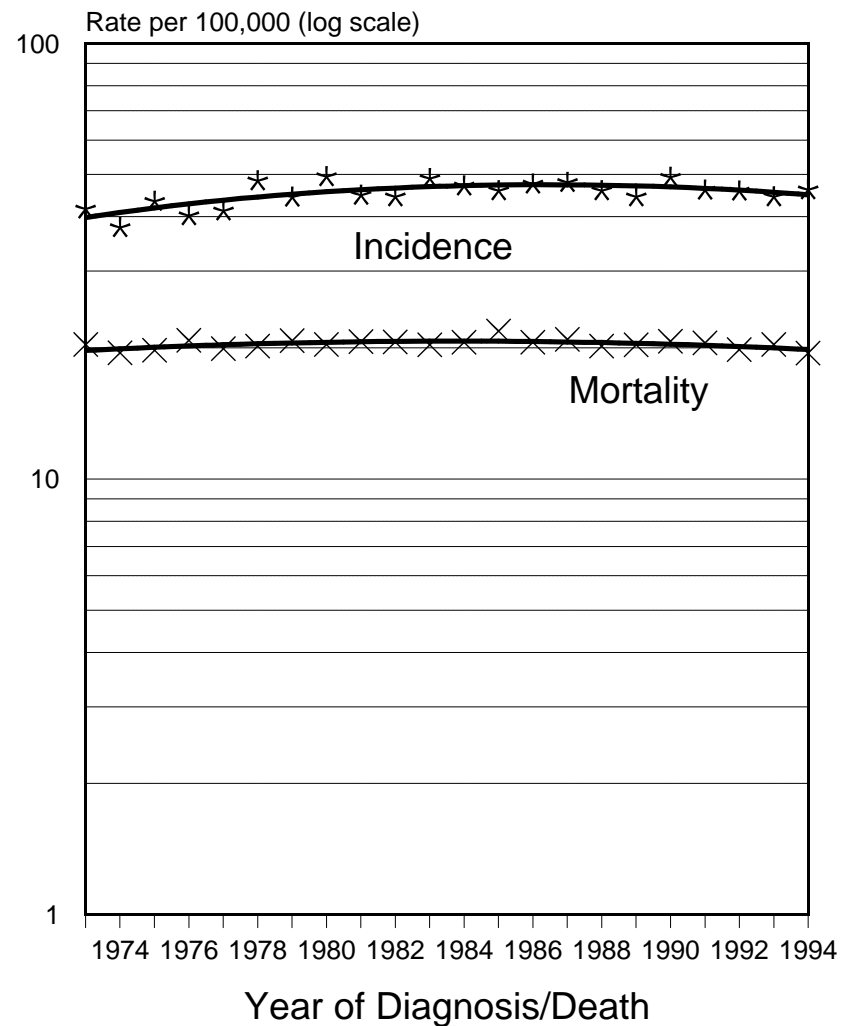
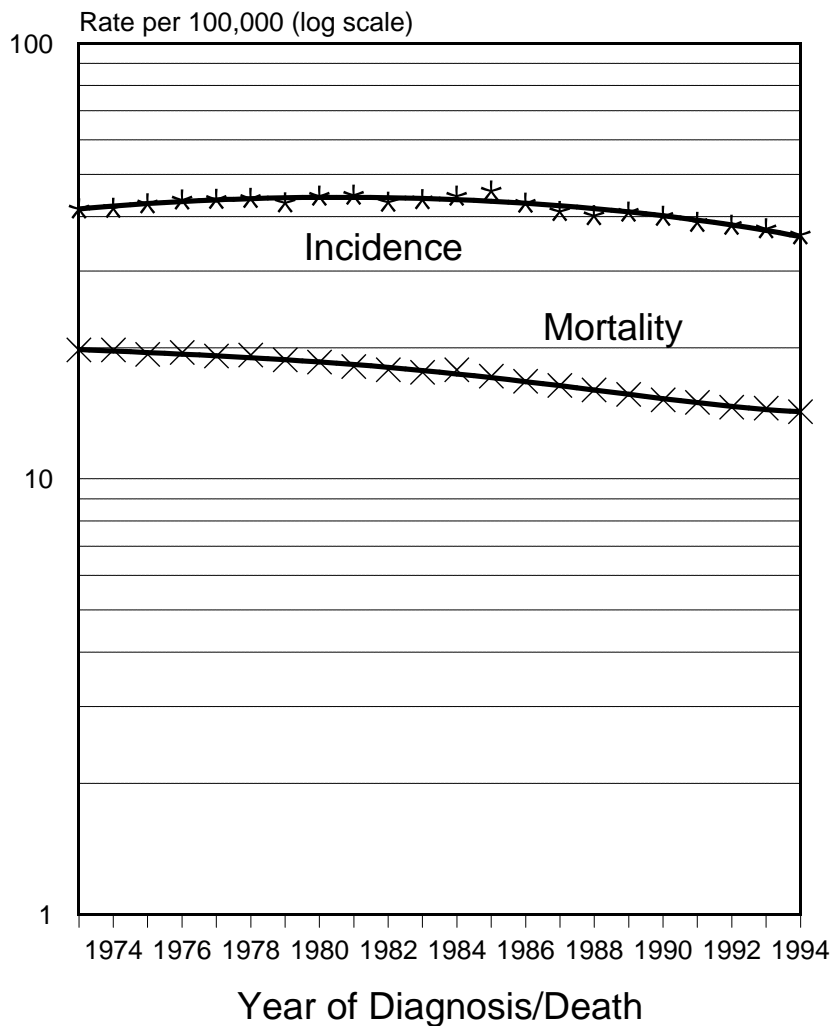


Figure VI-2