Table 18.1 Myeloma

Trends in SEER Incidence^{ab} and U.S. Mortality^c Using the Joinpoint Regression Program, 1975-2006 With up to Four Joinpoints, 1992-2006 With up to Two Joinpoints, Both Sexes by Race/Ethnicity

	<u>Joir</u>	npoint 1	<u>Frend 1</u>	Joinpoint 1	<u>Frend 2</u>	Joinpoint	Trend 3	Joinpoint	Trend 4	Joinpoint	Trend 5	AAI	
	Ye	ears	APC	Years	APC	Years	APC	Years	APC	Years	APC	1997-2006	2002-2006
<u>SEER 9 De</u> l	lay-Adjuste	ed Incid	lence ^a , 1	<u>1975-2006</u>									
All Races	197	5-1991	1.2*	1991-2006	0.2							0.2	0.2
White	197	5-2006	0.7*									0.7*	0.7*
Black	197	5-2006	0.7*									0.7*	0.7*
SEER 13 De	elay-Adjust	ted Inci	idence ^b ,	1992-2006									
All Races		2-2006	0.2									0.2	0.2
White	1993	2-2006	0.2									0.2	0.2
Black	199:	2-2006	0.2									0.2	0.2
<u>SEER 9 Obs</u>	served Inci	idence ^a ,	1975-20	006									
All Races	197	5-1997	1.0*	1997-2006	-0.8							-0.8*	-0.8*
White	197	5-1997	1.0*	1997-2006	-0.7							-0.7	-0.7
Black	197	5-1994	1.3*	1994-2006	-0.8							-0.8	-0.8
SEER 13 Ob	bserved Inc	cidence ^b	, 1992-2	2006									
All Races	1993	2-2006	-0.3									-0.3	-0.3
White	1993	2-2006	-0.2									-0.2	-0.2
White NH	H ^{ef} 1992	2-2006	-0.2									-0.2	-0.2
Black	1993	2-2006	-0.3									-0.3	-0.3
Black NH	H ^{ef} 1992	2-2006	-0.3									-0.3	-0.3
API ^e	1993	2-2006	-0.7									-0.7	-0.7
AI/AN ^{eg}		2-2006	1.2									1.2	1.2
Hispanic ^e	1993	2-2006	-0.4									-0.4	-0.4
-	er Mortalit	ty ^c , 197	5-2006										
All Races													
White													
Black													
U.S. Cance	er Mortalit	ty ^c , 199	2-2006										
All Races													
White													
White NH	H ^{ef}												
Black													
Black NH	H ^{ei}												
API ^e													
AI/AN ^{eg}													
Hispanic ^e													
							_						
				n Version 3.3. ht Change base									\ \
				areas (San Fra									
				areas (SEER 9									
c Tre				/ Files, Natio									
				al Percent Ch									
AP.				r, AI/AN - Ame re not mutuall									

Hispanic and Non-Hispanic are not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics and Non-Hispanics are based on NHIA and exclude cases from the Alaska Native Registry. The Hispanic and Non-Hispanic mortality trends exclude deaths from CT, ME, MD, MN, NH, NY, ND, OK and VT.

Data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.

- The APC/AAPC is significantly different from zero (p<.05).
- Joinpoint regression line analysis could not be performed on data series.

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Table 18.2 Myeloma

Trends in SEER Incidence^{ab} and U.S. Mortality^c Using the Joinpoint Regression Program, 1975-2006 With up to Four Joinpoints, 1992-2006 With up to Two Joinpoints, Males by Race/Ethnicity

	Joinpoint		<u>Joinpoint</u>		<u>Joinpoint</u>		<u>Joinpoint</u>		Joinpoint			PC ^d
	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	1997-2006	2002-2006
SEER 9 Delay-A			975-2006									
All Races	1975-2006	0.7*									0.7*	0.7*
White	1975-2006	0.8*									0.8*	0.8*
Black	1975-2006	0.5*									0.5*	0.5*
SEER 13 Delay-	-Adjusted Inc	idence ^b , 1	1992-2006									
All Races	1992-2006	0.1									0.1	0.1
White	1992-2006	0.2									0.2	0.2
Black	1992-2006	0.5									0.5	0.5
SEER 9 Observe	ed Incidence ^a	1975-200	06									
All Races	1975-2002	0.8*	2002-2006	-3.0							-0.9	-3.0
White	1975-2002	0.9*	2002-2006	-3.2							-0.9	-3.2
Black	1975-2006	0.3									0.3	0.3
SEER 13 Observ	ved Incidence	^b , 1992-20	006									
All Races	1992-2006	-0.3									-0.3	-0.3
White	1992-2006	-0.3									-0.3	-0.3
White NH ^{ef}	1992-2006	-0.2									-0.2	-0.2
Black	1992-2006	0.0									0.0	0.0
Black NH ^{ef}	1992-2006	0.0									0.0	0.0
API ^e	1992-2006	-1.4									-1.4*	-1.4*
AI/AN ^{eg}	1992-2006	-1.3									-1.3	-1.3
Hispanic ^e	1992-2006	-0.7									-0.7	-0.7
U.S. Cancer Mo	ortality ^c , 197	75-2006										
All Races	± ,											
White												
Black												
U.S. Cancer Mo	ortality ^c 190	2-2006										
All Races	<u> </u>	2000										
White												
White NH ^{ef}												
Black												
Black NH ^{ef}												
API ^e												
AI/AN ^{eg}												
Hispanic ^e												
IIISpanic												
Joinpoi	int Regression	1 Program	Version 3 3	1. April	2008. Nation	al Cancer	Institute (http://sra	ab.cancer.gov	/ioinpoin	t/).	
	C is the Annua).
^a Trends	are from the											
	are from the											•
	are from US I									l Preventi	on.	
Ille AA	PC is the Ave:				is based on lian/Alaska N							

API - Asian/Pacific Islander, AI/AN - American Indian/Alaska Native, NH - Non-Hispanic Hispanic and Non-Hispanic are not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics and Non-Hispanics are based on NHIA and exclude cases from the Alaska Native Registry. The Hispanic and Non-Hispanic mortality trends exclude deaths from CT, ME, MD, MN, NH, NY, ND, OK and VT.

Data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.

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

_ Joinpoint regression line analysis could not be performed on data series.

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Table 18.3 Myeloma

Trends in SEER Incidence^{ab} and U.S. Mortality^c Using the Joinpoint Regression Program, 1975-2006 With up to Four Joinpoints, 1992-2006 With up to Two Joinpoints, Females by Race/Ethnicity

	Joinpoint Trend 1 Joinpoint Trend 2 Joinpoint Trend 3 Joinpoint Trend 4 Join			- • • •	_ 1_	AA	ad					
	<u>Joinpoint Trend</u> Years AP			APC	Joinpoint Years	APC	Joinpoint Years	APC	<u>Joinpoint</u> Years	APC		-
	Adjusted Incidence			AFC	ICars	AFC	iears	AFC	Iears	AFC	1997 2000	2002 2000
All Races	1975-2006 0.		<u>0</u>								0.6*	0.6*
White	1975-2006 0.										0.5*	0.5*
Black	1975-2006 0.										0.9*	0.9*
											019	0.5
	-Adjusted Incidenc		06								0 1	0 1
All Races	1992-2006 0.										0.1	0.1
White Black	1992-2006 0. 1992-2006 -0.										0.0 -0.1	0.0 -0.1
BIACK	1992-2000 -0.	T									-0.1	-0.1
<u>SEER 9 Observe</u>		5-2006										
All Races	1975-1997 0.			-1.1							-1.1*	-1.1*
White	1975-1997 0.			-1.1							-1.1	-1.1
Black	1975-1996 1.	6* 1996-	-2006	-1.4							-1.4	-1.4
SEER 13 Observ	ved Incidence ^b , 199	92-2006										
All Races	1992-2006 -0.	3									-0.3	-0.3
White	1992-2006 -0.	4									-0.4	-0.4
White NH ^{ef}	1992-2006 -0.										-0.5	-0.5
Black	1992-2006 -0.										-0.7	-0.7
Black NH ^{ef}	1992-2006 -0.										-0.7	-0.7
API ^e	1992-2006 0.										0.3	0.3
AI/AN ^{eg}	1992-2006 3.										3.6	3.6
Hispanic ^e	1992-2006 -0.										-0.1	-0.1
U.S. Cancer Mo	ortality ^c , 1975-200	<u> </u>										
All Races												
White												
Black												
U.S. Cancer Mo	ortality ^c , 1992-200	06										
All Races												
White												
White NH ^{ef}												
Black												
Black NH ^{ef}												
API ^e												
AI/AN ^{eg}												
Hispanic ^e												
	int Regression Prog											\ \
	C is the Annual Per are from the SEER).
	are from the SEER											
^c Trends	are from US Morta											
	PC is the Average A								t.			
API - A	Asian/Pacific Islam								down and "	migan Trad	iong / Nlogl	
нıspan	ic and Non-Hispanio	c are not m	ucually	exclusi	ve from white	es, piacks	, Aslan/Pacil	LIC ISIAN	uers, and Ame	rican ind	1ans/Alaska	

Hispanic and Non-Hispanic are not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics and Non-Hispanics are based on NHIA and exclude cases from the Alaska Native Registry. The Hispanic and Non-Hispanic mortality trends exclude deaths from CT, ME, MD, MN, NH, NY, ND, OK and VT.

Data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.

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

- Joinpoint regression line analysis could not be performed on data series.

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Table 18.4

Myeloma

Age-adjusted SEER Incidence^a Rates by Year, Race and Sex

Year of Diagnosis: 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984	Total 4.91 5.02 5.06 4.74 4.88 4.79 5.02 5.29	Males 6.43 6.08 6.38 5.93 6.00 5.77 6.00	Females 3.86 4.37 4.16 3.94 4.09	Total 4.61 4.76 4.85 4.43	Males 6.17 5.77 6.19	Females 3.57 4.14	Total 9.72 9.20	Males 10.86 11.22	Females 8.61
1975 1976 1977 1978 1979 1980 1981 1982 1983	5.02 5.06 4.74 4.88 4.79 5.02	6.08 6.38 5.93 6.00 5.77	4.37 4.16 3.94	4.76 4.85	5.77				
1975 1976 1977 1978 1979 1980 1981 1982 1983	5.02 5.06 4.74 4.88 4.79 5.02	6.08 6.38 5.93 6.00 5.77	4.37 4.16 3.94	4.76 4.85	5.77				
1976 1977 1978 1979 1980 1981 1982 1983	5.02 5.06 4.74 4.88 4.79 5.02	6.08 6.38 5.93 6.00 5.77	4.37 4.16 3.94	4.76 4.85	5.77				
1977 1978 1979 1980 1981 1982 1983	5.06 4.74 4.88 4.79 5.02	6.38 5.93 6.00 5.77	4.16 3.94	4.85		4.14	9.20		
1978 1979 1980 1981 1982 1983	4.74 4.88 4.79 5.02	5.93 6.00 5.77	3.94			2 05	0 00		7.90
1979 1980 1981 1982 1983	4.88 4.79 5.02	6.00 5.77				3.95	9.09	11.00	7.75
1980 1981 1982 1983	4.79 5.02	5.77	4.09		5.60	3.65	9.61	10.97	8.66
1981 1982 1983	5.02			4.50	5.41	3.83	10.99	15.26	8.23
1982 1983		6 00	4.12	4.43	5.44	3.75	9.89	10.83	9.05
1983	5.29		4.33	4.62	5.46	4.00	11.01	15.23	8.19
		6.28	4.67	4.89	5.87	4.32	11.57	13.93	9.72
1984	5.31	6.93	4.22	4.74	6.30	3.73	13.72	16.22	11.92
	5.41	6.98	4.33	5.05	6.44	4.11	10.84	15.35	7.71
1985	5.20	6.32	4.35	4.94	5.95	4.19	9.38	12.58	7.13
1986	5.33	6.31	4.65	4.89	6.02	4.13	11.01	11.57	10.42
1987	5.93	7.37	5.02	5.66	7.18	4.71	11.13	13.48	9.69
1988	5.33	6.57	4.51	5.03	6.37	4.18	10.81	12.17	9.72
1989	5.44	6.73	4.49	5.10	6.35	4.17	10.74	13.46	8.96
1990	5.65	7.25	4.56	5.25	6.93	4.10	11.96	14.74	10.18
1991	6.03	7.67	4.85	5.57	7.18	4.41	12.78	15.92	10.64
1992	5.96	7.28	5.07	5.63	6.99	4.76	11.51	13.04	10.40
1993	5.60	7.33	4.34	5.15	6.82	3.97	12.74	15.72	10.50
1994	5.72	6.80	5.03	5.20	6.34	4.44	12.76	15.16	11.82
1995	5.73	7.23	4.69	5.32	6.79	4.32	12.18	15.13	10.30
1996	5.81	7.18	4.77	5.42	6.87	4.29	12.54	13.39	11.87
1997	6.11	7.36	5.24	5.68	7.02	4.74	12.71	14.42	11.94
1998	5.90	7.29	4.87	5.56	7.08	4.41	11.73	13.20	10.82
1999	5.58	7.06	4.49	5.12	6.56	4.06	12.10	15.35	10.06
2000	6.02	7.49	4.92	5.72	7.49	4.40	10.81	10.47	10.81
2001	5.85	7.22	4.82	5.44	6.81	4.38	12.05	14.58	10.53
2002	5.91	7.67	4.59	5.58	7.42	4.20	10.78	13.87	8.77
2003	5.70	7.18	4.58	5.44	6.95	4.27	10.49	13.68	8.36
2004	5.66	7.10	4.59	5.15	6.61	4.08	12.17	14.96	10.20
2004	5.00	7.32	4.65	5.36	6.96	4.14	11.90	13.89	10.20
2005	5.79	6.48	4.54	5.04	6.25	4.14	11.90	12.98	10.80
1975-2006	5.37	6.48 6.90	4.54	5.17	6.25 6.54	4.19	11.42	12.98	10.43 9.88

Table 18.6 Myeloma

SEER Incidence^a and U.S. Death^b Rates, Age-Adjusted and Age-Specific Rates, by Race and Sex

	metel	All Races	Demaler	matal.	Whites	Demaler	mata 1	Blacks	Deme 1 -
	Total	Males	Females	Total	Males	Females	Total	Males	Female
SEER Incidence									
Age at Diagnosis									
Age-Adjusted Rates, 2002-2006									
All ages	5.6	7.1	4.6	5.2	6.6	4.1	11.7	14.3	10.0
Under 65	2.1	2.5	1.8	1.9	2.3	1.5	4.7	5.4	4.1
65 and over	29.9	38.5	23.8	28.0	36.8	21.9	60.2	75.5	50.7
All ages (IARC world std) $^{\circ}$	3.5	4.4	2.9	3.2	4.1	2.5	7.5	9.0	6.4
ge-Specific Rates, 2002-2006									
<1	-	-	-	-	-	-	-	-	-
1 - 4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	_	-	-	-	-	-	-	-	_
15-19 20-24	_	_	_	-	_	_	-	_	_
25-29	0.1	-	-	_	_	-	-	_	_
30-34	0.1	0.4	0.2	0.3	0.4	_	0.6	_	_
35-39	0.7	0.8	0.6	0.6	0.7	0.4	2.0	2.0	1.9
40-44	1.6	1.8	1.4	1.4	1.8	1.1	3.4	3.0	3.8
45-49	3.3	3.9	2.7	2.8	3.4	2.1	7.4	8.7	6.3
50-54	6.0	6.7	5.2	5.2	5.9	4.5	14.5	16.5	12.8
55-59	9.5	11.3	7.8	8.8	10.5	7.1	19.3	24.3	15.1
60-64	14.7	17.7	11.9	13.2	16.4	10.3	32.1	36.3	28.7
65-69	21.4	26.3	17.1	19.7	24.5	15.4	44.6	54.6	37.0
70-74	28.2	35.9	22.0	25.9	33.8	19.5	60.5	75.7	49.8
75-79	34.9	44.6	27.9	33.1	42.9	25.9	68.9	85.0	59.0
80-84	38.5	49.9	31.4	36.8	48.6	29.5	73.1	93.6	61.8
85+	33.3	47.3	26.8	31.8	46.2	25.2	63.9	84.1	55.6
Age-Adjusted Rates, 2002-2006 All ages Under 65 65 and over All ages (IARC world std) ^c Age-Specific Rates, 2002-2006 <1 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74									

National Cancer Institute

- unless noted.
- b
- US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups Census P25-1130), unless noted. Rates are per 100,000 and are age-adjusted to the IARC world standard population. Statistic not shown. Rate based on less than 16 cases for the time interval.
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Table 18.7 Myeloma

Survival Rates, by Race, Sex, Diagnosis Year and Age

		All Races			Whites			Blacks	
	Total	Males	Females	Total	Males	Females	Total	Males	Females
5-Year Relative Survival F	Pater								
Year of Diagnosis:	acco								
1960–1963 ^a	_	_	_	12	13	10	_	-	_
1970-1973 ^a	_	_	-	19	20	17	_	-	-
1975–1977 ^b	25.9	25.5	26.2	25.4	25.1	25.7	30.7	31.6	29.7
1978-1980 ^b	27.0	25.5	28.5	25.4	25.5	26.5	32.5	26.9	37.9
1981-1983 ^b	27.0	25.5	30.7	28.5	25.5	30.3	29.6	30.3	28.8
1981-1985 1984-1986 ^b	28.5	20.0	27.9	28.5	27.3	27.4	32.4	34.0	20.0 30.6
1984-1986 1987-1989 ^b		30.2	27.9 26.8	27.4 28.2		27.4			30.6
	28.5				30.5		31.0	30.7	
1990-1992 ^b	30.6	31.8	29.2	29.7	30.9	28.5	35.6	40.1	31.5
1993-1995 ^b	33.0	33.7	32.2	32.1	33.1	30.9	35.9	35.0	36.3
1996-1998 ^b	33.4	35.7	30.9	33.3	35.7	30.5	31.7	33.1	30.6
1999-2005 ^b	37.1 ^e	39.3 ^e	34.6 ^e	37.5 ^e	40.1 ^e	34.3 ^e	35.5 ^e	37.2	33.8
5-Year Period Survival Rat	ces ^{cd}								
Year of Diagnosis:									
1999-2005	38.4	39.2	37.5	38.1	39.4	36.4	37.5	36.6	38.3
Stage Distribution (%) 199	99-2005°								
All Stages									
Number of cases	21,769	11,619	10,150	16,552	9,062	7,490	3,743	1,824	1,919
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
Localized	5	5	4	5	6	4	3	3	3
Regional	0	0	0	0	0	0	0	0	0
Distant	95	94	96	95	94	96	97	97	97
Unstaged	0	0	0	0	0	0	0	0	0
5-Year Relative Survival F	Rates, 1999-	2005 ^c							
Age at Diagnosis:								-	-
Ages <45	60.3	61.3	58.6	61.5	63.6	57.3	57.2	55.2 ^f	58.9 ^f
Ages 45-54	52.7	52.2	53.3	55.0	54.9	55.2	46.4	41.2	52.2
Ages 55-64	44.4	45.1	43.5	45.7	46.2	44.9	38.0	38.7	37.7
Ages 65-74	33.7	32.6	35.0	33.7	32.8	34.8	31.9	31.0	32.7
Ages 75+	20.3	20.3	20.3	19.7	19.8	19.5	22.0	21.5	22.0
Ages <65	49.3	49.8	48.7	50.7	51.4	49.6	44.0	42.0	46.4
Ages 65+	27.3	27.4	27.1	26.8	27.1	26.3	27.7	27.6	27.6
Stage:									
All Stages	37.1	38.3	35.7	36.9	38.6	34.9	36.6	36.0	37.2
Localized	71.0	78.0	57.8	71.0	77.9	57.0	65.0 ^f	77.4 ^f	49.2 ^g
Regional	_	_	_	_	_	_	_	-	-
	25 2		24 0	24.0	25 0	24.0	25 5	24 5	26.0
Distant	35.3	35.7	34.9	34.9	35.8	34.0	35.7	34.5	36.8

b

С

d

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g

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

Rates are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Rates are based on follow-up of patients into 2006.

Rates are from the SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Mative Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey). California excluding SF/SJM/LA, Kentucky, Louisiana, and New Jersey contribute cases for diagnosis years 2000-2005. The remaining 13 SEER Areas contribute cases for the entire period 1999-2005. Rates are based on follow-up of patients into 2006. Period survival provides a more up-to-date estimate of survival by piecing together the most recent conditional survival estimates from several cohorts. It is computed here using three year calendar blocks (2003-2005: 0-1 year survival),

(2002-2004: 1-2 year survival), (2001-2003: 2-3 year survival), (2000-2002: 3-4 year survival), (1999-2001: 4-5 years survival). The difference in rates between 1975-1977 and 1999-2005 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 due to fewer than 25 cases during the time period.

Table 18.8 Myeloma

Survival Rates^a By Year of Diagnosis

All Races, Males and Females

Year of Diagnosis

	1975- 1979	1980- 1984	1985- 1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Relative Survival	l Rates	(SEER ^b)																	
1-year	69.0	70.9	73.2	71.6	75.8	69.7	73.2	73.7	75.0	71.1	74.8	75.2	74.4	73.2	73.1	74.6	77.3	74.1	75.3
2-year	53.0	55.6	58.8	57.0	60.6	57.1	59.5	59.6	59.6	58.6	61.4	62.7	60.8	60.8	60.1	63.0	65.1	66.0	
3-year	40.9	44.0	46.5	44.8	48.8	46.5	47.6	49.0	48.7	46.3	49.5	52.0	49.0	50.6	49.9	53.4	55.8		
4-year	32.5	35.4	37.1	38.8	39.2	35.9	38.8	38.3	41.3	38.9	39.6	40.4	39.7	42.2	44.5	46.8			
5-year	26.3	28.1	28.7	31.4	32.1	28.3	32.2	32.2	34.5	32.6	32.7	34.8	32.3	35.5	37.8				
6-year	21.1	22.3	23.4	25.4	25.9	22.2	28.1	27.3	29.3	28.1	27.2	30.5	28.2	30.4					
7-year	17.3	17.9	18.9	20.0	22.3	19.8	23.6	22.1	24.7	25.1	23.5	25.0	24.6						
8-year	14.6	14.4	16.3	18.1	18.7	16.9	19.3	19.4	21.5	22.9	20.9	23.0							
9-year	12.4	12.4	13.2	16.5	17.4	15.1	17.5	16.7	19.5	21.6	18.4								
10-year	11.0	10.7	11.8	14.9	15.9	13.2	16.1	15.0	18.6	19.1									
11-year	9.7	9.8	10.6	13.5	14.3	12.1	15.3	14.6	17.5										
12-year	8.9	8.8	9.8	12.8	12.8	10.3	13.9	13.1											
13-year	7.6	7.9	9.1	12.1	12.4	9.6	12.6												
14-year	7.0	7.2	8.6	11.0	11.8	9.3													
15-year	6.2	6.9	7.9	10.4	11.5														
16-year	5.8	6.4	7.3	10.0															
17-year	5.5	6.0	7.2																
18-year	4.9	5.7																	
19-year	4.7	5.0																	
20-year	4.1	4.8																	

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Survival rates are relative rates expressed as percents. Rates are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

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Table 18.9 Myeloma

Survival Rates^a By Year of Diagnosis

All Races, Males

Year of Diagnosis

	1975- 1979	1980- 1984	1985- 1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Relative Survival	l Rates	(SEER ^b)																	
1-year	68.9	71.1	74.0	71.2	76.9	73.5	71.0	74.9	75.6	71.9	74.5	76.2	76.1	74.6	74.4	75.3	77.4	76.2	75.6
2-year	53.4	56.1	60.4	57.4	62.5	60.7	58.6	60.6	60.4	59.9	61.6	63.8	62.2	62.7	61.9	61.8	66.2	67.9	
3-year	40.4	44.0	47.3	45.7	49.9	49.7	46.1	48.4	50.2	46.4	51.3	54.4	52.2	53.1	51.0	52.1	57.2		
4-year	32.1	35.0	38.1	38.2	40.5	37.4	37.3	38.5	42.6	40.5	41.8	44.2	44.1	44.4	46.5	46.9			
5-year	25.7	27.0	29.7	31.5	34.0	29.8	31.3	32.1	37.5	34.6	33.6	38.9	36.1	37.2	40.0				
6-year	20.4	22.0	24.9	23.8	28.2	23.1	28.4	29.6	32.8	30.6	27.7	34.5	31.4	31.2					
7-year	16.7	18.0	20.7	19.4	23.9	20.4	23.8	25.0	27.3	27.1	23.6	28.4	27.6						
8-year	14.2	14.8	17.7	18.6	21.1	18.5	19.2	22.0	23.5	25.6	21.9	26.1							
9-year	12.2	12.8	14.3	16.9	19.6	17.0	17.9	18.6	21.6	23.2	20.2								
10-year	10.6	10.8	12.8	15.5	17.8	14.6	16.9	16.5	20.9	20.4									
11-year	8.7	10.0	11.4	13.1	16.1	14.2	15.6	15.9	20.0										
12-year	8.1	8.7	11.0	13.1	14.4	13.0	13.7	13.1											
13-year	6.9	7.9	10.2	12.5	14.2	12.3	12.3												
14-year	6.3	7.0	9.7	11.4	14.1	12.2													
15-year	5.7	6.6	9.0	11.4	13.6														
16-year	5.4	6.1	8.6	11.1															
17-year	5.0	5.8	8.5																
18-year	4.4	5.4																	
19-year	4.2	5.1																	
20-year	3.3	4.8																	

National Cancer Institute

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Survival rates are relative rates expressed as percents. Rates are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Table 18.10 Myeloma

Survival Rates^a By Year of Diagnosis

All Races, Females

Year of Diagnosis

	1975- 1979	1980- 1984	1985- 1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Relative Surviva	al Rates	(SEER ^b)																	
1-year	69.1	70.8	72.4	72.0	74.5	65.8	76.0	72.5	74.2	70.3	75.1	74.1	72.4	71.5	71.7	73.7	77.3	71.5	75.0
2-year	52.7	55.2	57.3	56.5	58.3	53.5	60.7	58.8	58.8	57.2	61.1	61.6	59.1	58.5	58.1	64.5	63.9	63.7	
3-year	41.5	44.1	45.7	43.8	47.6	43.2	49.4	49.5	46.9	46.1	47.5	49.2	45.3	47.8	48.7	54.9	54.2		
4-year	32.8	35.9	36.0	39.6	37.7	34.4	40.7	38.2	39.9	37.3	37.3	36.1	34.7	39.7	42.3	46.7			
5-year	27.0	29.3	27.7	31.3	29.9	26.8	33.2	32.3	31.2	30.5	31.7	30.3	28.0	33.5	35.4				
6-year	21.7	22.5	22.0	27.2	23.3	21.3	27.6	25.1	25.4	25.4	26.8	25.9	24.3	29.4					
7-year	17.9	17.8	17.1	20.6	20.4	19.2	23.4	19.4	21.8	22.8	23.2	21.2	21.1						
8-year	14.9	14.1	14.9	17.7	15.9	15.3	19.5	16.8	19.3	20.0	19.9	19.5							
9-year	12.7	12.0	12.1	16.0	14.9	13.0	17.0	14.8	17.2	19.8	16.3								
10-year	11.5	10.5	10.9	14.1	13.7	11.7	15.0	13.6	16.2	17.7									
11-year	10.7	9.7	9.8	13.9	12.3	9.9	14.8	13.3	14.8										
12-year	9.6	8.9	8.6	12.4	10.7	7.6	14.1	12.8											
13-year	8.2	7.9	8.0	11.6	10.0	7.0	12.7												
14-year	7.7	7.3	7.5	10.6	9.1	6.3													
15-year	6.8	7.2	6.7	9.2	9.0														
16-year	6.1	6.6	6.0	8.9															
17-year	6.0	6.2	5.9																
18-year	5.3	5.9																	
19-year	5.1	4.9																	
20-year	4.8	4.6																	

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Survival rates are relative rates expressed as percents. Rates are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Table 18.12 Myeloma

SEER Incidence and U.S. Mortality Age-Adjusted Rates and Trends^a By Race/Ethnicity and Sex

SEER Incidence	Rate	R 17 Are 2002-2 100,00			ER 13 Ar nd 1997-: AAPC (%	2006°	Tren	CR 9 Are d 1997-: AAPC (%	2006 ^d
RACE/ETHNICITY	Total	Males	Females		Males	Females	Total	Males	Females
RACE/EIHNICIII									
All Races	5.6	7.1	4.6	-0.3	-0.3	-0.3	-0.8*	-0.9	-1.1*
White	5.2	6.6	4.1	-0.2	-0.3	-0.4	-0.7	-0.9	-1.1
White Hispanic ^e	5.5	6.6	4.7	-0.5	-0.8	-0.1	-	-	-
White Non-Hispanic ^e	5.1	6.6	4.0	-0.2	-0.2	-0.5	-	-	-
Black	11.7	14.3	10.0	-0.3	0.0	-0.7	-0.8	0.3	-1.4
Asian/Pacific Islander	3.3	3.9	2.8	-0.7	-1.4*	0.3	-	-	-
Amer Ind/Alaska Nat ^f	4.8	4.6	5.1	_	_	-	-	-	-
Hispanic ^e	5.4	6.4	4.7	-0.4	-0.7	-0.1	-	-	-
U.S. Mortality ^g				_	1 4 9 9 7 1				

Rate	2002-20	06	Tren	nd 1997-	2006 ^h
Rate per	100,000	persons		AAPC (%)
Total	Males	Females	Total	Males	Females

RACE/ETHNICITY

All Races

White White Hispanic^e White Non-Hispanic^e

Black

Asian/Pacific Islander

Amer Ind/Alaska Nat Total U.S. CHSDA Counties Non-CHSDA Counties

Hispanic^e

	The AAPC is the Average Annual Percent Change over the time interval. The AAPCs are calculated by the Joinpoint Regression Program Version 3.3, April 2008, National Cancer Institute.
_	Statistic not shown. Rate based on less than 16 cases for the time interval.
	Trend based on less than 10 cases for at least one year within the time interval.
a	Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends
	are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).
b	The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah
	and Atlanta.
	The SEER 13 areas comprise the SEER 9 areas plus San Jose-Monterey, Los Angeles, the Alaska
	Native Registry and Rural Georgia.
	The SEER 17 areas comprise the SEER 13 areas plus California excluding SF/SJM/LA, Kentucky,
	Louisiana and New Jersey.
с	The 1997-2006 AAPC estimates are based on a Joinpoint analysis with up to 2 Joinpoints over
	diagnosis years 1992-2006.
d	The 1997-2006 AAPC estimates are based on a Joinpoint analysis with up to 4 Joinpoints over
	diagnosis years 1975-2006.
e	Hispanic and Non-Hispanic are not mutually exclusive from whites, blacks, Asian/Pacific
	Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics and Non-Hispanics
	are based on NHIA and exclude cases from the Alaska Native Registry. The 2002-2006 Hispanic and
	Non-Hispanic death rates exclude deaths from Minnesota, New Hampshire and North Dakota. The
	1997-2006 Hispanic and Non-Hispanic mortality trends exclude deaths from Connecticut, Maine,
f	Maryland, Minnesota, New Hampshire, New York, North Dakota, Oklahoma and Vermont.
T	Incidence data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service
	Delivery Area) counties.
g	US Mortality Files, National Center for Health Statistics, CDC.
h	The 1997-2006 mortality AAPCs are based on a Joinpoint analysis using years of death 1992-2006.
^	The APC is significantly different from zero (p<.05).

Table 18.13

Myeloma

Age-Adjusted SEER Incidence Rates^a By Registry, Race and Sex

	All Races				Whites		Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
SEER Incidence Rates ^a , 2002-2006									
Atlanta & Rural Georgia	6.24	7.76	5.11	4.83	6.07	3.91	10.32	13.41	8.23
Atlanta	6.23	7.68	5.18	4.95	6.20	4.04	10.11	12.81	8.25
Rural Georgia	6.75	9.80	4.27	-	_	-	14.16	22.36	-
California	5.24	6.52	4.24	5.02	6.34	3.97	11.37	13.43	9.90
Greater Bay Area	5.48	6.68	4.51	5.46	6.80	4.37	11.35	12.39	10.58
San Francisco-Oakland	5.37	6.47	4.50	5.16	6.45	4.10	11.25	12.02	10.64
San Jose-Monterey	5.70	7.15	4.54	6.03	7.45	4.88	12.31	16.30	-
Los Angeles	5.43	6.58	4.59	4.94	6.15	4.05	12.01	13.99	10.66
Greater California	5.07	6.45	3.97	4.92	6.29	3.82	10.46	13.51	8.19
Connecticut	5.63	7.11	4.58	5.20	6.56	4.24	10.69	14.58	8.02
Detroit	6.88	8.55	5.76	5.53	7.15	4.36	12.43	14.87	10.95
Hawaii	4.14	5.22	3.28	5.53	7.98	3.63	-	-	-
Iowa	5.31	6.92	4.15	5.18	6.79	4.00	16.21	-	16.19
Kentucky	5.85	7.49	4.72	5.43	7.07	4.28	12.72	15.58	11.02
Louisiana	6.72	8.51	5.43	4.80	6.17	3.78	12.72	16.38	10.32
New Jersey	6.13	7.61	5.05	5.49	7.09	4.28	11.86	13.10	11.05
New Mexico	5.29	6.57	4.26	5.32	6.72	4.19	-	-	-
Seattle-Puget Sound	5.99	7.95	4.47	5.92	7.86	4.40	11.72	16.14	7.87
Utah	4.60	5.71	3.66	4.66	5.74	3.72	-	-	-
9 SEER Areas ^b	5.68	7.14	4.59	5.31	6.83	4.16	11.36	13.87	9.69
11 SEER Areas ^b	5.63	7.02	4.59	5.28	6.73	4.18	11.53	13.93	9.93
13 SEER Areas ^b	5.63	7.02	4.59	5.27	6.72	4.17	11.56	14.03	9.90
17 SEER Areas ^b	5.63	7.06	4.56	5.19	6.65	4.08	11.73	14.26	10.03

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130) The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah and Atlanta. The SEER 11 areas comprise the SEER 9 areas plus San Jose-Monterey and Los Angeles. The SEER 13 areas comprise the SEER 11 areas plus the Alaska Native Registry and Rural Georgia. The SEER 17 areas comprise the SEER 13 areas plus California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey. Statistic not shown. Rate based on less than 16 cases for the time interval.

а b

Table 18.18 Myeloma (Invasive)

Estimated United States Cancer Prevalence Counts^a on January 1, 2006 By Race/Ethnicity, Sex and Years Since Diagnosis

Years Since Diagnosis		0 to <5	5 to <10	10 to <15	15 to <20	20 to <25	25 to <30	0 to <16 ^e	0 to <31 ^e	>=31 ^g	$Complete^h$
Race	Sex										
All Races ^b	Both Sexes	39,615	12,048	4,647	1,740	622	195	56,829	58,905	298	59,203
	Males	21,534	6,777	2,616	1,054	301	88	31,232	32,370	113	32,483
	Females	18,081	5,271	2,031	686	321	107	25,597	26,535	185	26,720
White ^b	Both Sexes	30,902	9,472	3,556	1,265	363	182	44,323	45,751	87	45,838
	Males	17,260	5,545	2,024	783	163	84	25,068	25,859	0 ⁱ	25,859
	Females	13,642	3,927	1,532	482	200	98	19,255	19,892	87 ⁱ	19,979
Black ^b	Both Sexes	7,133	2,118	911	403	229	0	10,275	10,819	+	+
	Males	3,467	995	510	241	126	0	5,034	5,338	+	+
	Females	3,666	1,123	401	162	103	0	5,241	5,481	+	+
Asian/	Both Sexes	862	291	110	+	+	+	1,270	+	+	+
Pacific	Males	433	156	56	+	+	+	647	+	+	+
Islander ^c	Females	429	135	54	+	+	+	623	+	+	+
Hispanic ^d	Both Sexes	2,700	823	275	+	+	+	3,833	+	+	+
	Males	1,399	470	161	+	+	+	2,054	+	+	+
	Females	1,301	353	114	+	+	+	1,779	+	+	+

Estimated prevalence percent^a on January 1, 2006, of the SEER 11 population diagnosed in the previous 16 years By Age at Prevalence, Race/Ethnicity and Sex

		Age Specific (Crude)									Age-Adjusted ^f	
Age at Prevalence		All Ages	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80+	All Ages
Race_	<u>Sex</u>											
All Races ^c	Both Sexes Males Females	0.0173% 0.0190% 0.0156%		- -	0.0002% 0.0003% -	0.0020% 0.0027% 0.0013%	0.0082% 0.0092% 0.0071%	0.0288% 0.0338% 0.0240%	0.0655% 0.0802% 0.0523%	0.0926% 0.1140% 0.0760%	0.0852% 0.1044% 0.0745%	0.0178% 0.0216% 0.0147%
White ^c	Both Sexes Males Females	0.0168% 0.0188% 0.0148%	- -	- -	- -	0.0019% 0.0028% 0.0010%	0.0077% 0.0087% 0.0067%	0.0260% 0.0308% 0.0213%	0.0616% 0.0769% 0.0474%	0.0880% 0.1113% 0.0696%	0.0780% 0.0971% 0.0675%	0.0166% 0.0206% 0.0134%
Black ^c	Both Sexes Males Females	0.0259% 0.0270% 0.0249%	- - -	- -	0.0007% - -	0.0039% 0.0040% 0.0037%	0.0155% 0.0175% 0.0138%	0.0611% 0.0698% 0.0540%	0.1252% 0.1557% 0.1014%	0.1703% 0.1944% 0.1542%	0.1732% 0.2041% 0.1583%	0.0348% 0.0407% 0.0305%
Asian/ Pacific Islander ^c	Both Sexes Males Females	0.0106% 0.0112% 0.0101%	- - -	- - -	- - -	0.0007% - -	0.0037% 0.0043% 0.0033%	0.0176% 0.0217% 0.0140%	0.0407% 0.0417% 0.0399%	0.0565% 0.0652% 0.0501%	0.0713% 0.0926% 0.0572%	0.0113% 0.0131% 0.0099%
Hispanic ^d	Both Sexes Males Females	0.0088% 0.0090% 0.0085%	- - -	- - -	- - -	0.0025% 0.0035% 0.0013%	0.0080% 0.0080% 0.0080%	0.0224% 0.0272% 0.0178%	0.0599% 0.0676% 0.0533%	0.0931% 0.1061% 0.0836%	0.0755% 0.0955% 0.0638%	0.0166% 0.0193% 0.0144%

US 2006 cancer prevalence counts are based on 2006 cancer prevalence proportions from the SEER registries and 1/1/2006 US population estimates based on the average of 2005 and 2006 population estimates from the US Bureau of the Census. Prevalence was calculated using the First Malignant Primary Only for a person. Statistics based on (b) SEER 9 Areas (c) SEER 11 Areas and Rural Georgia (d) NHIA for Hispanic for SEER 11 Areas and а

bcd Rural Georgia. e

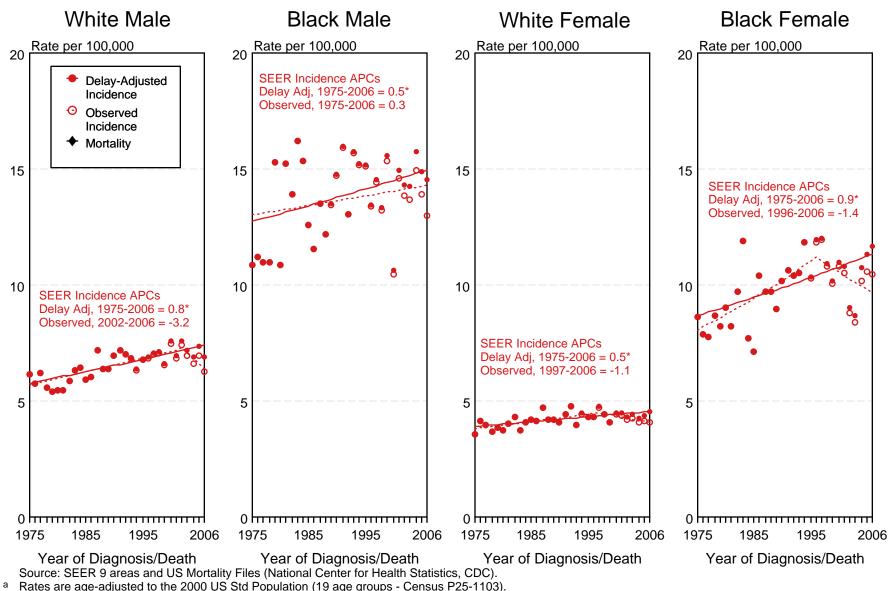
f

Maximum limited-duration prevalence: 31 years for 1975-2006 SEER 9 data; 16 years for 1990-2006 SEER 11 data (used to calculate prevalence for Hispanics and Asian Pacific Islanders). Percentages are age-adjusted to the 2000 US Standard Population (19 age groups - Census P25-1130) by 5-year age groups. (g) Cases diagnosed more than 31 years ago were estimated using the completeness index method (Capocaccia et. al. 1997, Merrill et. al. 2000). (h) Complete prevalence is obtained by summing 0 to <31 and >=31. (i) Age-specific completeness index was approximated using empirical data from historical Connecticut tumor registry. ghi _

Statistic not shown. Statistic based on fewer than 5 cases estimated alive in SEER for the time interval.

+ Not available.

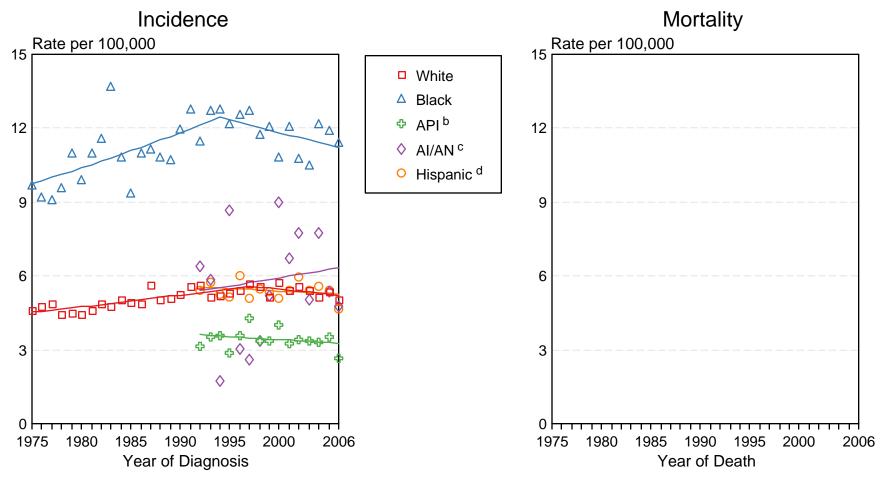
SEER Observed Incidence, SEER Delay Adjusted Incidence and US Death Rates^a Myeloma, by Race and Sex



Regression lines and APCs are calculated using the Joinpoint Regression Program Version 3.3.1, April 2008, National Cancer Institute. The APC is the Annual Percent Change for the regression line segments. The APC shown on the graph is for the most recent trend. The APC is significantly different from zero (p < 0.05).

SEER Incidence and US Death Rates^a Myeloma, Both Sexes Joinpoint Analyses for Whites and Blacks from 1975-2006

and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 1992-2006



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 13 Areas (SEER 9 Areas, San Jose-Monterey, Los Angeles, Alaska Native Registry and Rural Georgia). Mortality data are from US Mortality Files, National Center for Health Statistics, CDC. ^a Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).

- ^b API = Asian/Pacific Islander. c Al/AN = American Indian/Alaska Native. Rates for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.
- d Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry. Mortality data for Hispanics exclude cases from Connecticut, Maine, Maryland, Minnesota, New Hampshire, New York,

Regression lines are calculated using the Joinpoint Regression Program Version 3.3.1, April 2008, National Cancer Institute. Joinpoint analyses for Whites and Blacks during the

1975-2006 period allow a maximum of 4 joinpoints. Analyses for other ethnic groups during the period 1992-2006 allow a maximum of 2 joinpoints.

North Dakota, Oklahoma, and Vermont.