

Table 27.1
Cancer of the Urinary Bladder (Invasive and *In Situ*)

Trends in SEER Incidence^{ab} and U.S. Mortality^c Using the Joinpoint Regression Program,
1975-2016 With up to Five Joinpoints, 2000-2016 With up to Three Joinpoints,
Both Sexes by Race/Ethnicity

	JP Trend 1		JP Trend 2		JP Trend 3		JP Trend 4		JP Trend 5		JP Trend 6		AAPC ^d	
	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	2007-16	2012-16
<u>SEER 9 Delay-Adjusted Incidence^a, 1975-2016</u>														
All Races	1975-86	0.7*	1986-07	0.2*	2007-16	-1.0*							-1.0*	-1.0*
White	1975-86	0.9*	1986-07	0.3*	2007-16	-0.9*							-0.9*	-0.9*
Black	1975-16	0.3*											0.3*	0.3*
<u>SEER 21 Delay-Adjusted Incidence^b, 2000-2016</u>														
All Races	2000-05	0.5	2005-16	-1.1*									-1.1*	-1.1*
White	2000-05	0.6	2005-16	-1.0*									-1.0*	-1.0*
White NH ^{ef}	2000-05	0.7	2005-16	-0.8*									-0.8*	-0.8*
Black	2000-16	-0.1											-0.1	-0.1
Black NH ^{ef}	2000-16	0.0											0.0	0.0
API ^e	2000-16	-0.5*											-0.5*	-0.5*
AI/AN ^{eg}	2000-16	1.5											1.5	1.5
Hispanic ^f	2000-16	-1.1*											-1.1*	-1.1*
<u>U.S. Cancer Mortality^c, 1975-2016</u>														
All Races	1975-77	0.2	1977-87	-2.2*	1987-16	0.0*							0.0*	0.0*
White	1975-77	0.3	1977-87	-2.2*	1987-16	0.1*							0.1*	0.1*
Black	1975-16	-1.0*											-1.0*	-1.0*
<u>U.S. Cancer Mortality^c, 2000-2016</u>														
All Races	2000-16	0.0											0.0	0.0
White	2000-16	0.2*											0.2*	0.2*
White NH ^{ef}	2000-16	0.3*											0.3*	0.3*
Black	2000-16	-0.7*											-0.7*	-0.7*
Black NH ^{ef}	2000-16	-0.6*											-0.6*	-0.6*
API ^e	2000-16	-0.3											-0.3	-0.3
AI/AN ^{eg}	2000-16	2.2											2.2	2.2
Hispanic ^f	2000-16	-0.7*											-0.7*	-0.7*

Joinpoint Regression Program Version 4.7, February 2019, National Cancer Institute. (<https://surveillance.cancer.gov/joinpoint/>).

The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

^a Trends are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

^b Trends are from the SEER 21 areas (SEER 9 areas, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

^c Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

^d The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.

^e API - Asian/Pacific Islander, AI/AN - American Indian/Alaska Native, NH - Non-Hispanic

^f 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.

^g Data for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) counties.

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

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

Table 27.2
Cancer of the Urinary Bladder (Invasive and *In Situ*)

Trends in SEER Incidence^{ab} and U.S. Mortality^c Using the Joinpoint Regression Program,
1975-2016 With up to Five Joinpoints, 2000-2016 With up to Three Joinpoints,
Males by Race/Ethnicity

	JP Trend 1		JP Trend 2		JP Trend 3		JP Trend 4		JP Trend 5		JP Trend 6		AAPC ^d	
	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	2007-16	2012-16
<u>SEER 9 Delay-Adjusted Incidence^a, 1975-2016</u>														
All Races	1975-86	0.8*	1986-07	0.1	2007-16	-1.1*							-1.1*	-1.1*
White	1975-87	1.2*	1987-94	-0.4	1994-06	0.4*	2006-16	-1.0*					-1.0*	-1.0*
Black	1975-16	0.4*											0.4*	0.4*
<u>SEER 21 Delay-Adjusted Incidence^b, 2000-2016</u>														
All Races	2000-07	0.1	2007-16	-1.5*									-1.5*	-1.5*
White	2000-07	0.1	2007-16	-1.4*									-1.4*	-1.4*
White NH ^{ef}	2000-07	0.3	2007-16	-1.1*									-1.1*	-1.1*
Black	2000-13	0.5	2013-16	-3.5									-0.9	-2.5
Black NH ^{ef}	2000-12	0.7*	2012-16	-2.6									-0.8	-2.6
API ^e	2000-16	-0.5*											-0.5*	-0.5*
AI/AN ^{eg}	2000-16	1.2											1.2	1.2
Hispanic ^f	2000-16	-1.2*											-1.2*	-1.2*
<u>U.S. Cancer Mortality^c, 1975-2016</u>														
All Races	1975-83	-1.4*	1983-87	-2.8*	1987-93	0.2	1993-97	-1.1	1997-10	0.1	2010-16	-0.4*	-0.3*	-0.4*
White	1975-82	-1.4*	1982-87	-2.3*	1987-03	-0.2*	2003-06	0.8	2006-16	-0.2			-0.2	-0.2
Black	1975-16	-0.9*											-0.9*	-0.9*
<u>U.S. Cancer Mortality^c, 2000-2016</u>														
All Races	2000-06	0.4	2006-16	-0.3*									-0.3*	-0.3*
White	2000-16	0.0											0.0	0.0
White NH ^{ef}	2000-16	0.2*											0.2*	0.2*
Black	2000-16	-0.3											-0.3	-0.3
Black NH ^{ef}	2000-16	-0.2											-0.2	-0.2
API ^e	2000-16	-0.1											-0.1	-0.1
AI/AN ^{eg}	2000-05	-5.8	2005-08	21.4	2008-14	-8.6*	2014-16	40.1*					3.7	13.1*
Hispanic ^f	2000-16	-0.8*											-0.8*	-0.8*

Joinpoint Regression Program Version 4.7, February 2019, National Cancer Institute. (<https://surveillance.cancer.gov/joinpoint/>).

The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

^a Trends are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

^b Trends are from the SEER 21 areas (SEER 9 areas, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

^c Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

^d The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.

^e API - Asian/Pacific Islander, AI/AN - American Indian/Alaska Native, NH - Non-Hispanic

^f 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.

^g Data for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) counties.

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

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

Table 27.3
Cancer of the Urinary Bladder (Invasive and *In Situ*)

Trends in SEER Incidence^{ab} and U.S. Mortality^c Using the Joinpoint Regression Program,
1975-2016 With up to Five Joinpoints, 2000-2016 With up to Three Joinpoints,
Females by Race/Ethnicity

	JP Trend 1		JP Trend 2		JP Trend 3		JP Trend 4		JP Trend 5		JP Trend 6		AAPC ^d	
	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	2007-16	2012-16
<u>SEER 9 Delay-Adjusted Incidence^a, 1975-2016</u>														
All Races	1975-02	0.2*	2002-16	-1.0*									-1.0*	-1.0*
White	1975-02	0.4*	2002-16	-0.9*									-0.9*	-0.9*
Black	1975-16	0.1											0.1	0.1
<u>SEER 21 Delay-Adjusted Incidence^b, 2000-2016</u>														
All Races	2000-16	-1.0*											-1.0*	-1.0*
White	2000-16	-0.9*											-0.9*	-0.9*
White NH ^{ef}	2000-16	-0.7*											-0.7*	-0.7*
Black	2000-16	-0.6											-0.6	-0.6
Black NH ^{ef}	2000-16	-0.5											-0.5	-0.5
API ^e	2000-16	-0.6											-0.6	-0.6
AI/AN ^{eg}	2000-16	2.6											2.6	2.6
Hispanic ^f	2000-16	-1.5*											-1.5*	-1.5*
<u>U.S. Cancer Mortality^c, 1975-2016</u>														
All Races	1975-86	-1.6*	1986-16	-0.4*									-0.4*	-0.4*
White	1975-86	-1.7*	1986-16	-0.3*									-0.3*	-0.3*
Black	1975-16	-1.0*											-1.0*	-1.0*
<u>U.S. Cancer Mortality^c, 2000-2016</u>														
All Races	2000-16	-0.5*											-0.5*	-0.5*
White	2000-16	-0.3*											-0.3*	-0.3*
White NH ^{ef}	2000-16	-0.2*											-0.2*	-0.2*
Black	2000-16	-1.4*											-1.4*	-1.4*
Black NH ^{ef}	2000-16	-1.3*											-1.3*	-1.3*
API ^e	2000-16	-0.8											-0.8	-0.8
AI/AN ^{eg}	-	-											-	-
Hispanic ^f	2000-16	-0.8											-0.8	-0.8

Joinpoint Regression Program Version 4.7, February 2019, National Cancer Institute. (<https://surveillance.cancer.gov/joinpoint/>).

The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

^a Trends are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

^b Trends are from the SEER 21 areas (SEER 9 areas, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

^c Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

^d The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.

^e API - Asian/Pacific Islander, AI/AN - American Indian/Alaska Native, NH - Non-Hispanic

^f 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.

^g Data for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) counties.

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

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

Table 27.4
Cancer of the Urinary Bladder (Invasive and *In Situ*)

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

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-1979	19.60	34.59	9.20	20.68	36.97	9.53	11.69	18.40	6.96
1980	20.42	37.14	8.92	21.53	39.81	9.07	13.27	18.23	9.87
1981	20.69	36.36	9.73	21.95	38.80	10.29	11.60	20.72	5.48
1982	20.08	35.79	9.52	21.37	38.30	10.15	12.19	21.77	5.60
1983	20.04	35.99	9.01	21.32	38.71	9.41	12.17	18.70	7.57
1984	20.85	37.72	9.17	22.35	40.89	9.63	11.49	18.93	6.24
1985	20.67	36.37	9.86	22.12	39.30	10.38	13.06	20.33	8.14
1986	21.02	37.92	9.42	22.45	40.83	9.95	12.94	22.16	6.63
1987	21.65	39.51	9.24	23.16	42.79	9.58	13.22	21.78	7.41
1988	20.85	38.09	8.99	22.71	41.83	9.68	11.29	17.99	6.45
1989	21.03	37.42	9.64	22.73	40.91	10.18	11.37	17.61	7.16
1990	21.08	37.49	9.64	22.63	40.79	10.02	12.69	18.59	8.75
1991	20.92	37.64	9.32	22.73	41.30	9.88	12.85	19.53	8.50
1992	21.25	37.52	9.81	22.96	40.73	10.53	12.54	20.95	6.89
1993	21.26	37.68	9.72	22.86	40.57	10.39	14.43	25.00	7.85
1994	20.81	36.88	9.46	22.64	40.29	10.20	12.34	20.30	6.89
1995	20.64	36.24	9.55	22.46	39.52	10.29	11.85	18.23	7.39
1996	20.83	36.74	9.52	22.69	40.17	10.24	12.58	20.64	7.28
1997	21.11	37.21	9.58	23.01	40.76	10.22	12.76	20.15	8.21
1998	21.63	38.60	9.44	23.65	42.31	10.15	12.03	20.54	6.52
1999	21.78	38.27	9.95	23.70	41.82	10.56	14.61	22.56	9.55
2000	21.86	38.82	9.57	23.97	42.57	10.37	13.21	20.33	8.62
2001	21.80	38.63	9.66	24.12	42.63	10.63	11.94	18.97	7.40
2002	21.29	37.21	9.71	23.35	40.73	10.56	12.78	18.26	9.02
2003	21.62	37.86	9.79	23.84	41.64	10.65	12.97	21.26	7.48
2004	21.56	38.03	9.56	23.70	41.71	10.37	13.80	22.84	8.30
2005	22.01	38.91	9.62	24.14	42.72	10.30	14.05	23.13	8.11
2006	21.42	37.98	9.23	23.64	41.90	9.96	11.89	18.26	7.68
2007	21.94	39.29	8.99	24.24	43.19	9.81	13.16	21.41	7.87
2008	21.45	37.73	9.37	23.62	41.39	10.20	12.80	22.09	6.71
2009	20.97	37.17	8.82	22.98	40.54	9.52	13.32	23.12	7.02
2010	21.45	37.68	9.23	23.97	41.92	10.09	12.51	20.92	6.99
2011	20.49	35.93	8.79	22.96	39.98	9.73	12.77	21.63	7.12
2012	20.86	36.58	9.00	23.14	40.17	10.01	13.10	23.78	6.04
2013	20.21	35.45	8.57	22.45	39.17	9.31	14.63	23.74	8.71
2014	20.52	35.55	9.01	22.74	39.38	9.65	14.36	22.85	8.67
2015	20.18	35.47	8.34	22.55	39.32	9.18	12.05	20.39	6.72
2016	19.79	34.29	8.47	22.21	38.28	9.26	12.93	21.62	7.25

Reference: [Cancer Incidence Rates Adjusted for Reporting Delay](#).

Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

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Table 27.5
Cancer of the Urinary Bladder (Invasive and *In Situ*)
Age-adjusted SEER Incidence^a Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	20.85	37.00	9.24	22.69	40.41	9.89	12.75	20.77	7.47
1975-1979	19.60	34.59	9.20	20.68	36.97	9.53	11.69	18.40	6.96
1980	20.42	37.14	8.92	21.53	39.81	9.07	13.27	18.23	9.87
1981	20.69	36.36	9.73	21.95	38.80	10.29	11.60	20.72	5.48
1982	20.08	35.79	9.52	21.37	38.30	10.15	12.19	21.77	5.60
1983	20.04	35.99	9.01	21.32	38.71	9.41	12.17	18.70	7.57
1984	20.85	37.72	9.17	22.35	40.89	9.63	11.49	18.93	6.24
1985	20.67	36.37	9.86	22.12	39.30	10.38	13.06	20.33	8.14
1986	21.02	37.92	9.42	22.45	40.83	9.95	12.94	22.16	6.63
1987	21.65	39.51	9.24	23.16	42.79	9.58	13.22	21.78	7.41
1988	20.85	38.09	8.99	22.71	41.83	9.68	11.29	17.99	6.45
1989	21.03	37.42	9.64	22.73	40.91	10.18	11.37	17.61	7.16
1990	21.08	37.49	9.64	22.63	40.79	10.02	12.69	18.59	8.75
1991	20.92	37.64	9.32	22.73	41.30	9.88	12.85	19.53	8.50
1992	21.25	37.52	9.81	22.96	40.73	10.53	12.54	20.95	6.89
1993	21.26	37.68	9.72	22.86	40.57	10.39	14.43	25.00	7.85
1994	20.81	36.88	9.46	22.64	40.29	10.20	12.34	20.30	6.89
1995	20.64	36.24	9.55	22.46	39.52	10.29	11.85	18.23	7.39
1996	20.83	36.74	9.52	22.69	40.17	10.24	12.58	20.64	7.28
1997	21.11	37.21	9.58	23.01	40.76	10.22	12.76	20.15	8.21
1998	21.63	38.60	9.44	23.65	42.31	10.15	12.03	20.54	6.52
1999	21.78	38.27	9.95	23.70	41.82	10.56	14.61	22.56	9.55
2000	21.86	38.82	9.57	23.97	42.57	10.37	13.21	20.33	8.62
2001	21.80	38.63	9.66	24.12	42.63	10.63	11.94	18.97	7.40
2002	21.29	37.21	9.71	23.35	40.73	10.56	12.78	18.26	9.02
2003	21.62	37.86	9.79	23.84	41.64	10.65	12.97	21.26	7.48
2004	21.56	38.03	9.56	23.70	41.71	10.37	13.80	22.84	8.30
2005	22.01	38.91	9.62	24.14	42.72	10.30	14.05	23.13	8.11
2006	21.42	37.98	9.23	23.64	41.90	9.96	11.89	18.26	7.68
2007	21.94	39.29	8.99	24.24	43.19	9.81	13.16	21.41	7.87
2008	21.43	37.69	9.37	23.59	41.33	10.19	12.77	22.03	6.69
2009	20.93	37.10	8.81	22.92	40.43	9.50	13.24	22.99	6.98
2010	21.40	37.58	9.21	23.86	41.74	10.05	12.41	20.75	6.94
2011	20.42	35.80	8.76	22.83	39.76	9.68	12.63	21.38	7.04
2012	20.76	36.42	8.96	22.97	39.89	9.94	12.93	23.47	5.97
2013	20.10	35.26	8.53	22.26	38.84	9.23	14.43	23.41	8.58
2014	20.35	35.26	8.93	22.46	38.90	9.54	14.07	22.39	8.50
2015	19.92	35.02	8.23	22.15	38.62	9.02	11.75	19.88	6.55
2016	19.35	33.54	8.28	21.56	37.15	8.99	12.48	20.86	7.00

^a Individual rates for diagnosis years 1975-1979 available in web browser version of [Cancer Statistics Review](#).
SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 27.6
Cancer of the Urinary Bladder (Invasive)

Age-adjusted U.S. Death^a Rates by Year, Race and Sex

Year of Death:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975-2016	4.56	8.01	2.35	4.69	8.35	2.33	4.06	5.99	2.91
1975-1979	5.46	9.62	2.82	5.52	9.90	2.76	5.08	7.42	3.48
1980	5.17	9.16	2.73	5.24	9.51	2.66	4.72	6.21	3.71
1981	5.07	9.02	2.66	5.13	9.28	2.61	4.89	7.20	3.40
1982	4.99	8.95	2.58	5.04	9.23	2.50	4.86	6.83	3.56
1983	4.88	8.79	2.54	4.93	9.04	2.50	4.72	7.17	3.19
1984	4.74	8.49	2.49	4.78	8.73	2.43	4.74	6.89	3.39
1985	4.67	8.43	2.44	4.73	8.67	2.40	4.48	6.86	3.02
1986	4.53	8.10	2.41	4.60	8.41	2.34	4.25	5.83	3.29
1987	4.41	7.87	2.34	4.46	8.09	2.28	4.37	6.50	3.11
1988	4.41	7.76	2.41	4.47	8.02	2.34	4.30	5.89	3.33
1989	4.48	7.99	2.37	4.52	8.18	2.31	4.61	7.02	3.20
1990	4.49	7.97	2.42	4.55	8.22	2.37	4.44	6.44	3.24
1991	4.42	7.89	2.34	4.48	8.14	2.28	4.40	6.58	3.12
1992	4.46	7.89	2.43	4.52	8.11	2.38	4.35	6.66	3.08
1993	4.47	8.05	2.31	4.55	8.32	2.27	4.17	6.36	2.93
1994	4.47	7.86	2.42	4.54	8.13	2.37	4.34	6.36	3.19
1995	4.35	7.78	2.28	4.45	8.08	2.23	4.05	5.77	3.09
1996	4.41	7.79	2.37	4.51	8.08	2.33	4.16	5.89	3.14
1997	4.39	7.59	2.42	4.50	7.88	2.40	4.00	5.88	2.98
1998	4.38	7.71	2.32	4.49	8.02	2.29	3.95	5.58	3.03
1999	4.36	7.66	2.28	4.47	7.95	2.24	4.01	5.84	2.96
2000	4.32	7.60	2.27	4.48	7.94	2.27	3.74	5.68	2.69
2001	4.35	7.62	2.27	4.48	7.97	2.24	3.74	5.17	2.93
2002	4.43	7.61	2.39	4.56	7.94	2.36	3.99	5.67	3.08
2003	4.30	7.49	2.23	4.45	7.82	2.22	3.76	5.60	2.72
2004	4.42	7.73	2.28	4.60	8.13	2.28	3.69	5.20	2.82
2005	4.42	7.73	2.25	4.58	8.07	2.26	3.78	6.00	2.60
2006	4.41	7.72	2.22	4.57	8.09	2.21	3.87	5.79	2.81
2007	4.44	7.72	2.25	4.62	8.10	2.25	3.84	5.59	2.82
2008	4.41	7.62	2.25	4.61	8.04	2.28	3.38	4.83	2.52
2009	4.37	7.67	2.16	4.57	8.05	2.18	3.60	5.56	2.46
2010	4.43	7.72	2.20	4.63	8.12	2.22	3.66	5.62	2.53
2011	4.42	7.63	2.22	4.64	8.06	2.24	3.59	5.19	2.63
2012	4.38	7.63	2.13	4.61	8.06	2.18	3.46	5.27	2.36
2013	4.43	7.69	2.14	4.66	8.14	2.17	3.52	5.40	2.39
2014	4.34	7.51	2.12	4.55	7.93	2.14	3.63	5.57	2.46
2015	4.36	7.49	2.17	4.62	7.95	2.23	3.37	5.24	2.24
2016	4.37	7.53	2.14	4.62	8.00	2.17	3.50	5.30	2.46

^a Individual rates for years of death 1975-1979 available in web browser version of [Cancer Statistics Review](#).
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).
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 27.7
Cancer of the Urinary Bladder (Invasive and *In Situ*)

SEER Incidence^a and U.S. Death^b 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>SEER Incidence</u>									
<u>Age at Diagnosis</u>									
Age-Adjusted Rates, 2012-2016									
All ages	20.1	35.2	8.7	22.2	38.5	9.5	11.8	19.7	6.6
Under 65	5.2	8.1	2.5	5.8	8.9	2.8	3.3	5.2	1.7
65 and over	123.2	222.3	51.7	135.5	243.6	55.7	70.3	120.4	40.0
All ages (WHO world std) ^c	13.6	23.1	5.9	15.0	25.3	6.5	8.0	13.2	4.4
Age-Specific Rates, 2012-2016									
<1	-	-	-	-	-	-	-	-	-
1-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19	0.1	0.1	-	0.1	-	-	-	-	-
20-24	0.2	0.3	0.1	0.3	0.4	0.1	-	-	-
25-29	0.4	0.5	0.2	0.4	0.6	0.3	-	-	-
30-34	0.8	1.1	0.5	0.9	1.2	0.6	0.3	-	-
35-39	1.4	2.1	0.8	1.6	2.3	0.9	0.9	1.3	-
40-44	2.9	4.2	1.6	3.2	4.6	1.8	2.0	3.2	1.0
45-49	6.0	9.1	3.0	6.8	10.1	3.5	3.8	5.9	1.9
50-54	13.2	20.0	6.7	14.7	21.9	7.5	8.5	12.6	4.9
55-59	25.0	38.9	11.9	27.7	42.7	13.2	16.0	24.8	8.6
60-64	42.0	67.5	18.6	46.5	73.9	20.8	26.0	42.7	12.5
65-69	71.4	117.4	30.6	78.8	128.8	33.5	42.0	69.1	21.5
70-74	106.5	181.5	43.7	118.6	200.9	48.1	60.3	102.3	30.7
75-79	143.6	252.5	58.9	159.0	278.7	64.0	79.5	131.2	46.3
80-84	175.5	322.9	73.6	191.6	352.0	78.2	99.6	173.2	58.9
85+	176.4	369.1	76.8	189.5	399.0	80.4	103.7	191.0	67.4
<u>U.S. Mortality</u>									
<u>Age at Death</u>									
Age-Adjusted Rates, 2012-2016									
All ages	4.4	7.6	2.1	4.6	8.0	2.2	3.5	5.4	2.4
Under 65	0.7	1.0	0.4	0.7	1.1	0.4	0.7	0.9	0.5
65 and over	30.0	53.0	14.5	31.7	56.2	14.8	22.9	35.9	15.6
All ages (WHO world std) ^c	2.1	3.5	1.0	2.2	3.7	1.0	1.8	2.7	1.2
Age-Specific Rates, 2012-2016									
<1	-	-	-	-	-	-	-	-	-
1-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19	-	-	-	-	-	-	-	-	-
20-24	-	-	-	-	-	-	-	-	-
25-29	0.0	-	-	-	-	-	-	-	-
30-34	0.0	0.1	0.0	0.1	0.1	-	-	-	-
35-39	0.1	0.1	0.1	0.1	0.1	0.1	0.2	-	-
40-44	0.3	0.3	0.2	0.3	0.4	0.2	0.3	0.3	0.3
45-49	0.7	0.9	0.5	0.7	1.0	0.5	0.7	0.9	0.5
50-54	1.6	2.4	0.9	1.7	2.6	0.8	1.7	2.2	1.2
55-59	3.3	5.1	1.7	3.5	5.4	1.6	3.5	4.9	2.4
60-64	5.9	9.3	2.8	6.2	9.8	2.8	5.9	8.7	3.7
65-69	10.1	16.2	4.6	10.6	17.1	4.6	9.1	14.0	5.4
70-74	17.7	28.7	8.4	18.8	30.5	8.5	14.9	21.1	10.5
75-79	29.2	48.6	13.8	30.9	51.7	14.1	23.1	34.7	15.6
80-84	47.8	83.5	22.6	50.6	88.5	23.3	33.0	52.9	21.9
85+	80.4	156.9	40.7	84.4	165.5	41.6	57.6	96.9	41.3

^a SEER 21 areas. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130), unless noted.

^b US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

^c 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 world (WHO 2000-2025) standard million.

- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 27.8
Cancer of the Urinary Bladder (Invasive and *In Situ*)

5-Year Relative and Period Survival (Percent) by Race, Sex, Diagnosis Year, Stage and Age

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
5-Year Relative Survival (Percent)									
Year of Diagnosis:									
1960-1963 ^a	-	-	-	53	53	53	24	24	24
1970-1973 ^a	-	-	-	61	61	60	36	38	27
1975-1977 ^b	72.3	73.7	68.3	73.3	74.3	70.3	50.3	56.5	38.1 ^g
1978-1980 ^b	73.9	75.1	70.4	74.7	75.4	72.3	54.5	62.6	40.1
1981-1983 ^b	76.7	78.1	72.8	77.4	78.6	74.0	59.5	64.9	47.0 ^g
1984-1986 ^b	76.7	78.1	72.7	77.2	78.4	73.6	59.4	62.3	52.8
1987-1989 ^b	79.0	81.3	71.9	79.8	82.0	73.1	62.6	67.5	52.9
1990-1992 ^b	79.2	81.7	71.9	80.2	82.6	73.1	63.3	66.0	58.5
1993-1995 ^b	80.2	82.1	75.0	81.1	82.5	76.9	60.8	68.1	46.2
1996-1998 ^b	79.1	80.4	75.4	79.8	81.1	76.0	62.9	65.9	56.0
1999-2001 ^b	80.0	80.9	77.2	81.0	81.5	79.4	67.7	72.1	60.1
2002-2004 ^b	79.9	81.7	74.7	80.8	82.3	76.3	61.4	66.7	52.1
2005-2008 ^b	79.4	80.9	74.6	80.2	81.5	75.9	65.0	69.6	55.9
2009-2015 ^b	78.3 ^f	79.1 ^f	75.6 ^f	79.1 ^f	79.7 ^f	77.0 ^f	64.9 ^f	68.7 ^f	57.6 ^f
5-Year Period Survival (Percent) ^{cd}									
2015	77.0	78.2	73.3	77.5	78.4	74.4	63.5	67.1	56.9
Stage Distribution (%) 2009-2015 ^{ce}									
All Stages									
Number of cases	90,571	68,619	21,952	79,585	60,831	18,754	5,209	3,448	1,761
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
In Situ	51	52	50	52	52	51	40	44	34
Localized	34	34	33	34	35	32	37	36	38
Regional	7	7	8	7	7	8	10	9	13
Distant	5	4	6	4	4	6	9	7	11
Unstaged/Unknown	3	3	3	3	2	3	4	4	4
5-Year Relative Survival (Percent), 2009-2015 ^c									
Age at Diagnosis:									
Ages <45	87.4	88.7	84.0	88.2	89.1	85.9	72.2	76.2	61.7 ^g
Ages 45-54	83.6	84.0	82.2	84.6	84.8	83.9	69.2	72.1	62.1
Ages 55-64	81.5	81.7	80.8	82.1	82.0	82.4	68.5	70.9	61.7
Ages 65-74	80.3	81.0	77.9	80.6	81.3	78.2	67.1	69.6	61.6
Ages 75+	69.4	71.4	64.0	69.9	71.6	65.3	54.2	60.5	46.5
Ages <65	82.5	82.8	81.4	83.1	83.2	83.1	69.1	71.7	62.0
Ages 65+	74.4	76.0	69.6	74.8	76.2	70.5	60.6	65.5	52.7
Stage ^e :									
All Stages	77.1	78.3	73.2	77.5	78.5	74.3	64.3	68.5	56.0
In Situ	95.8	95.4	97.2	95.8	95.3	97.3	92.2	92.1	92.3
Localized	69.5	71.8	62.0	69.7	71.8	62.5	60.6	66.0	50.6
Regional	36.3	37.2	34.0	37.2	38.3	34.0	28.8	25.0	33.0
Distant	4.6	5.0	3.9	4.6	4.7	4.3	2.6	3.8	1.1
Unstaged/Unknown	47.3	51.9	35.9	45.4	49.4	34.9	40.2	49.1 ^g	21.2 ^g

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

^b SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta).

Based on follow-up of patients into 2016. [Expected survival rates](#) are derived from the U.S. Annual Life Tables.

^c SEER 18 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey and Georgia excluding ATL/RG). Expected survival rates are derived from life tables by socio-economic status, geography and race developed by the SEER program.

Based on follow-up of patients into 2016.

^d Period survival provides a 2015 estimate of survival by piecing together the most recent conditional survival estimates from several cohorts. It is computed here using three year calendar blocks (2010-2012: 0-1 year survival), (2009-2011: 1-2 year survival), (2008-2010: 2-3 year survival), (2007-2009: 3-4 year survival), (2006-2008: 4-5 years survival).

^e Stage at diagnosis is classified using SEER Summary Stage 2000. Stage distribution percentages may not sum to 100 due to rounding.

^f The difference between 1975-1977 and 2009-2015 is statistically significant ($p < .05$).

^g The standard error is between 5 and 10 percentage points.

^h The standard error is greater than 10 percentage points.

- Statistic could not be calculated due to fewer than 25 cases during the time period.

Table 27.9
Cancer of the Urinary Bladder (Invasive and *In Situ*)

SEER^a Relative Survival (Percent)
By Year of Diagnosis

All Races, Males and Females

Year of Diagnosis

	1975- 1979	1980- 1984	1985- 1989	1990- 1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Survival Time																									
1-year	87.0	88.7	90.0	90.0	90.6	89.6	91.3	90.9	89.9	90.9	91.0	89.8	90.3	90.8	90.6	91.2	90.1	89.2	89.6	89.2	90.4	89.1	89.3	89.9	89.7
2-year	80.8	83.5	85.1	85.3	86.5	85.4	86.3	86.5	85.0	86.5	86.4	85.6	85.6	86.1	85.5	86.6	85.0	84.8	83.9	85.0	86.0	84.3	84.9	85.4	
3-year	77.7	80.4	82.2	82.8	84.0	83.3	83.1	83.4	82.3	83.6	84.5	83.5	83.5	83.6	82.7	83.8	82.1	81.9	81.4	81.7	82.9	81.5	82.2		
4-year	74.8	78.0	80.0	81.1	81.8	81.0	80.7	81.4	80.4	81.6	82.4	81.1	81.5	81.5	81.1	82.3	80.4	79.4	79.4	79.6	80.2	79.6			
5-year	73.0	76.1	78.1	79.5	81.1	79.6	78.5	79.3	78.1	80.4	81.5	79.9	79.7	80.1	80.1	80.8	79.0	77.6	78.1	77.4	79.1				
6-year	71.1	74.5	76.4	78.0	79.2	78.3	76.9	77.5	76.7	79.4	80.1	78.4	78.2	78.2	78.6	79.8	77.0	75.4	75.6	75.8					
7-year	69.0	73.0	74.9	76.3	77.4	77.3	75.8	76.4	75.7	77.8	78.3	77.3	77.1	76.0	77.8	77.9	75.1	73.3	74.7						
8-year	67.5	71.8	73.3	74.9	76.2	75.9	74.8	74.8	74.3	76.4	77.2	76.1	75.8	74.3	75.8	76.3	73.8	72.5							
9-year	65.8	70.1	72.1	73.5	74.5	74.1	73.3	73.5	73.1	75.5	76.0	74.7	74.8	73.1	74.5	75.5	73.1								
10-year	63.8	68.9	70.7	72.1	73.6	72.7	72.2	71.8	72.6	73.6	74.6	73.7	73.9	71.9	73.6	74.4									
11-year	62.1	67.5	69.6	70.9	73.0	71.6	71.3	71.0	71.5	71.7	73.8	72.3	72.6	70.8	73.1										
12-year	60.7	66.2	68.1	69.8	71.6	69.9	70.2	68.8	69.6	70.5	72.7	71.0	71.9	69.7											
13-year	59.7	65.2	66.9	69.0	69.3	68.8	69.9	68.0	68.2	69.1	70.2	70.7	71.3												
14-year	58.5	63.6	65.4	68.0	67.6	67.2	68.7	67.1	67.0	67.8	68.5	69.9													
15-year	57.2	62.2	64.1	66.3	67.0	67.1	67.3	66.7	65.7	66.8	67.7														
16-year	56.2	60.6	62.7	65.0	65.7	66.8	65.6	65.8	65.3	65.9															
17-year	55.1	59.7	61.8	63.8	64.1	65.4	64.7	64.5	64.1																
18-year	54.3	58.7	60.8	62.7	63.3	64.0	63.5	64.1																	
19-year	53.7	57.8	60.1	61.5	62.1	63.1	62.8																		
20-year	52.8	57.2	59.6	60.5	60.0	61.4																			

^a Based on the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta). [Expected survival rates](#) are derived from the U.S. Annual Life Tables.

Table 27.10
Cancer of the Urinary Bladder (Invasive and *In Situ*)

SEER^a Relative Survival (Percent)
By Year of Diagnosis

All Races, Males

Year of Diagnosis

	1975- 1979	1980- 1984	1985- 1989	1990- 1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Survival Time																									
1-year	89.0	89.9	91.7	91.7	92.1	91.2	93.0	92.6	91.7	92.1	91.5	91.9	91.8	91.9	92.1	92.5	91.6	90.9	90.7	90.9	91.8	90.8	90.9	91.3	91.1
2-year	82.7	85.1	87.0	87.5	87.9	87.1	88.3	88.3	86.8	87.9	86.9	88.3	87.2	87.7	87.2	88.1	86.5	86.7	84.8	87.0	87.6	86.3	86.5	87.0	
3-year	79.5	82.0	84.2	85.1	85.5	84.9	85.1	84.7	84.2	84.6	85.3	86.1	84.9	85.2	84.4	85.4	83.3	84.0	82.2	83.6	84.1	83.2	83.5		
4-year	76.5	79.5	81.9	83.4	83.0	82.6	82.4	82.6	81.9	82.5	83.0	83.4	82.9	83.2	82.8	84.0	81.4	81.0	80.4	81.5	80.9	80.8			
5-year	74.3	77.4	80.1	81.7	82.8	80.9	79.9	80.3	79.3	81.0	82.4	82.1	80.9	82.1	82.1	82.6	79.9	79.1	78.7	78.9	79.6				
6-year	72.3	75.8	78.4	80.1	80.9	79.6	78.0	78.8	77.7	80.2	80.8	80.7	79.1	80.3	80.8	81.5	77.9	76.8	76.1	77.2					
7-year	70.0	74.4	76.5	78.2	79.2	78.5	76.7	77.8	76.6	78.3	78.6	79.8	77.7	77.6	79.9	79.1	75.5	74.5	75.1						
8-year	68.3	73.2	74.9	76.8	77.8	76.9	75.9	76.0	75.2	76.6	77.8	78.4	76.3	75.7	77.9	77.5	74.1	73.7							
9-year	66.4	71.4	73.7	75.3	75.6	75.6	74.3	74.9	74.5	75.3	77.1	76.7	75.1	74.6	76.3	76.4	73.1								
10-year	64.2	70.3	72.3	74.0	74.7	73.9	73.2	73.1	74.2	73.0	75.6	75.7	73.8	73.2	75.2	75.8									
11-year	62.2	69.0	71.2	72.7	73.9	72.5	72.3	72.2	73.4	70.9	74.8	74.0	72.2	71.7	74.8										
12-year	60.8	67.4	69.5	71.6	72.5	70.7	70.9	69.8	72.0	69.5	73.9	72.6	71.3	70.6											
13-year	59.6	66.5	68.3	70.8	70.7	69.6	70.0	68.9	70.7	67.7	71.4	72.1	71.0												
14-year	58.4	64.7	66.8	70.1	68.7	67.7	68.3	68.4	69.6	66.5	70.0	71.8													
15-year	57.2	63.2	65.4	68.4	68.0	67.4	66.5	67.7	68.2	65.2	68.8														
16-year	55.8	61.3	63.9	67.1	66.2	67.2	64.5	66.5	67.8	64.0															
17-year	54.7	60.4	63.2	65.8	64.9	66.0	63.5	65.4	66.7																
18-year	53.7	59.4	61.9	64.9	64.1	64.3	62.5	64.9																	
19-year	52.9	58.8	61.2	63.5	62.8	64.3	61.7																		
20-year	52.1	58.3	60.7	62.7	60.0	62.6																			

^a Based on the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta). [Expected survival rates](#) are derived from the U.S. Annual Life Tables.

Table 27.11
Cancer of the Urinary Bladder (Invasive and *In Situ*)

SEER^a Relative Survival (Percent)
By Year of Diagnosis

All Races, Females

Year of Diagnosis

	1975- 1979	1980- 1984	1985- 1989	1990- 1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Survival Time																									
1-year	81.4	85.0	85.0	85.0	86.7	85.2	86.3	85.9	84.7	87.5	89.3	83.7	85.9	87.5	86.3	87.2	85.2	84.2	86.2	83.9	86.0	83.5	83.9	85.5	85.1
2-year	75.2	79.0	79.7	79.2	82.4	80.6	80.5	81.3	80.0	82.3	85.0	77.9	81.1	81.2	80.7	81.8	79.9	79.1	81.0	79.1	81.0	78.1	79.7	80.6	
3-year	72.6	75.9	76.4	76.1	79.7	78.7	77.2	79.5	76.9	80.6	82.2	76.1	79.4	78.7	77.6	79.1	78.0	75.9	79.0	75.6	79.1	76.2	78.0		
4-year	70.2	73.7	74.4	74.7	78.1	76.7	75.6	77.8	75.7	78.9	80.2	74.6	77.5	76.3	76.1	77.2	77.1	74.2	76.5	73.8	77.6	75.5			
5-year	69.2	72.2	72.3	73.0	75.9	75.6	74.5	76.1	74.6	78.3	78.8	73.6	76.0	74.0	74.3	75.3	75.9	73.1	76.1	72.6	77.2				
6-year	67.7	70.5	70.8	71.7	74.7	74.5	73.7	73.9	73.9	76.5	77.8	71.9	75.3	72.0	72.1	74.2	74.1	71.3	73.7	71.8					
7-year	66.0	68.8	70.0	70.6	72.5	73.9	72.9	72.3	72.8	76.3	77.4	69.8	75.1	70.9	71.4	74.0	73.4	69.6	73.0						
8-year	65.2	67.7	68.6	69.4	71.8	72.8	71.2	71.4	71.8	75.4	75.3	69.5	74.4	69.9	69.5	72.8	72.9	68.6							
9-year	64.2	66.0	67.5	68.3	71.2	69.9	70.1	69.5	69.2	75.4	72.8	68.7	73.9	68.5	69.1	72.6	72.4								
10-year	62.5	64.8	66.1	66.7	70.5	69.2	68.7	67.9	68.1	74.6	71.5	67.9	73.4	68.0	68.8	70.0									
11-year	61.5	63.3	64.9	65.6	69.8	68.7	68.0	67.4	65.6	73.8	71.0	67.1	73.3	67.7	68.1										
12-year	60.1	62.5	63.9	64.6	69.1	67.7	68.0	65.6	63.0	73.3	69.4	66.4	73.2	66.6											
13-year	59.6	61.4	62.6	63.6	65.5	66.5	68.0	64.9	61.3	73.2	66.8	66.2	71.6												
14-year	58.1	60.4	61.2	61.9	64.3	65.8	68.0	63.3	59.9	71.8	64.1	64.4													
15-year	56.8	59.4	60.3	60.1	63.8	65.8	68.0	63.2	58.5	71.4	64.1														
16-year	56.7	58.4	59.1	58.9	63.7	65.0	68.0	63.2	58.0	71.1															
17-year	55.8	57.5	57.9	57.9	62.1	63.4	67.6	61.8	56.8																
18-year	55.4	56.2	57.4	56.4	61.2	62.5	65.8	61.0																	
19-year	55.3	54.8	56.6	55.6	60.3	59.3	65.1																		
20-year	54.3	54.1	55.8	54.3	59.9	58.2																			

^a Based on the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta). [Expected survival rates](#) are derived from the U.S. Annual Life Tables.

Table 27.12
Cancer of the Urinary Bladder (Invasive and In Situ)

Risk of Being Diagnosed With Cancer in 10, 20 and 30 Years,
Lifetime Risk of Being Diagnosed with Cancer Given Alive and Cancer-Free at Current Age, and
Lifetime Risk of Dying from Cancer Given Alive at Current Age
Both Sexes, 2014-2016 By Race/Ethnicity

Race/ Ethnicity	Current Age	Risk of Being Diagnosed with Cancer				Risk of Dying from Cancer	Race/ Ethnicity	Current Age	Risk of Being Diagnosed with Cancer				Risk of Dying from Cancer
		+10 yrs	+20 yrs	+30 yrs	Ever				+10 yrs	+20 yrs	+30 yrs	Ever	
All Races	0	0.00	0.00	0.00	2.45	0.62	Asian/ Pacific Islander	0	0.00	0.00	0.00	1.48	0.45
	10	0.00	0.00	0.02	2.47	0.63		10	0.00	0.00	0.01	1.49	0.45
	20	0.00	0.02	0.06	2.48	0.63		20	0.00	0.01	0.03	1.49	0.46
	30	0.01	0.06	0.23	2.50	0.63		30	0.01	0.03	0.11	1.49	0.46
	40	0.04	0.23	0.70	2.52	0.64		40	0.02	0.10	0.31	1.49	0.46
	50	0.18	0.67	1.53	2.53	0.65		50	0.08	0.29	0.71	1.49	0.46
	60	0.51	1.42	2.25	2.48	0.67		60	0.22	0.65	1.17	1.45	0.47
	70	1.03	1.96	-	2.23	0.68		70	0.46	1.01	-	1.32	0.47
80	1.24	-	-	1.60	0.63	80	0.66	-	-	1.02	0.45		
White	0	0.00	0.00	0.00	2.66	0.65	American Indian/ Alaska Native ^a	0	0.00	0.00	0.01	1.21	0.35
	10	0.00	0.00	0.02	2.69	0.66		10	0.00	0.01	0.01	1.22	0.36
	20	0.00	0.02	0.07	2.69	0.66		20	0.00	0.01	0.03	1.22	0.36
	30	0.01	0.06	0.26	2.71	0.66		30	0.01	0.03	0.12	1.24	0.37
	40	0.05	0.25	0.77	2.73	0.67		40	0.03	0.12	0.35	1.27	0.38
	50	0.20	0.74	1.69	2.75	0.68		50	0.10	0.34	0.68	1.29	0.39
	60	0.57	1.57	2.46	2.69	0.70		60	0.26	0.63	1.13	1.28	0.41
	70	1.14	2.14	-	2.40	0.70		70	0.42	0.99	-	1.16	0.44
80	1.34	-	-	1.70	0.66	80	0.76	-	-	0.99	0.43		
Black	0	0.00	0.00	0.00	1.27	0.43	Hispanic ^b	0	0.00	0.00	0.00	1.60	0.44
	10	0.00	0.00	0.01	1.29	0.44		10	0.00	0.00	0.01	1.62	0.44
	20	0.00	0.01	0.04	1.29	0.44		20	0.00	0.01	0.03	1.62	0.44
	30	0.01	0.04	0.15	1.31	0.44		30	0.01	0.03	0.12	1.63	0.45
	40	0.03	0.14	0.40	1.33	0.45		40	0.02	0.11	0.37	1.64	0.45
	50	0.11	0.39	0.81	1.34	0.46		50	0.09	0.36	0.85	1.64	0.46
	60	0.30	0.76	1.17	1.33	0.48		60	0.28	0.80	1.37	1.62	0.47
	70	0.55	1.04	-	1.23	0.49		70	0.57	1.21	-	1.48	0.47
80	0.68	-	-	0.96	0.47	80	0.79	-	-	1.13	0.45		

Devcan 6.7.7, April 2019, National Cancer Institute (<https://surveillance.cancer.gov/devcan/>).

Source: Incidence data are from the SEER 21 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts). Mortality data are from the NCHS public use data file for the total US.

^a Underlying incidence and mortality data for American Indian/Alaska Native are based on the PRCD (Purchased/Referred Care Delivery Areas) counties.

^b Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Underlying incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

- Statistic could not be calculated.

A percent of 0.00 represents a value that is below 0.005.

Table 27.13
Cancer of the Urinary Bladder (Invasive and In Situ)

Risk of Being Diagnosed With Cancer in 10, 20 and 30 Years,
Lifetime Risk of Being Diagnosed with Cancer Given Alive and Cancer-Free at Current Age, and
Lifetime Risk of Dying from Cancer Given Alive at Current Age
Males, 2014-2016 By Race/Ethnicity

Race/ Ethnicity	Current Age	Risk of Being Diagnosed with Cancer				Risk of Dying from Cancer	Race/ Ethnicity	Current Age	Risk of Being Diagnosed with Cancer				Risk of Dying from Cancer
		+10 yrs	+20 yrs	+30 yrs	Ever				+10 yrs	+20 yrs	+30 yrs	Ever	
All Races	0	0.00	0.00	0.01	3.86	0.93	Asian/ Pacific Islander	0	0.00	0.00	0.00	2.44	0.73
	10	0.00	0.01	0.02	3.90	0.95		10	0.00	0.00	0.01	2.46	0.74
	20	0.00	0.02	0.09	3.92	0.95		20	0.00	0.01	0.05	2.46	0.74
	30	0.02	0.08	0.35	3.96	0.96		30	0.01	0.05	0.17	2.47	0.74
	40	0.07	0.34	1.09	4.01	0.98		40	0.04	0.17	0.51	2.48	0.75
	50	0.28	1.05	2.44	4.07	1.01		50	0.13	0.48	1.17	2.48	0.76
	60	0.83	2.32	3.68	4.07	1.05		60	0.36	1.08	1.96	2.44	0.77
	70	1.74	3.33	-	3.77	1.09		70	0.78	1.74	-	2.26	0.79
80	2.26	-	-	2.89	1.09	80	1.18	-	-	1.83	0.81		
White	0	0.00	0.00	0.01	4.19	0.99	American Indian/ Alaska Native ^a	0	0.00	0.00	0.00	1.78	0.44
	10	0.00	0.01	0.02	4.23	1.00		10	0.00	0.00	0.01	1.80	0.44
	20	0.01	0.02	0.09	4.25	1.00		20	0.00	0.01	0.04	1.81	0.45
	30	0.02	0.09	0.39	4.29	1.02		30	0.01	0.04	0.17	1.85	0.46
	40	0.07	0.37	1.19	4.35	1.03		40	0.03	0.17	0.52	1.90	0.48
	50	0.31	1.15	2.68	4.41	1.06		50	0.14	0.51	1.09	1.96	0.50
	60	0.91	2.55	4.02	4.40	1.10		60	0.41	1.04	1.85	1.99	0.53
	70	1.91	3.62	-	4.07	1.14		70	0.74	1.69	-	1.85	0.58
80	2.44	-	-	3.08	1.13	80	1.34	-	-	1.56	0.57		
Black	0	0.00	0.00	0.00	1.80	0.54	Hispanic ^b	0	0.00	0.00	0.00	2.57	0.65
	10	0.00	0.00	0.01	1.83	0.55		10	0.00	0.00	0.01	2.60	0.66
	20	0.00	0.01	0.06	1.84	0.55		20	0.00	0.01	0.04	2.60	0.66
	30	0.01	0.05	0.22	1.87	0.57		30	0.01	0.04	0.18	2.63	0.67
	40	0.04	0.21	0.62	1.91	0.58		40	0.03	0.17	0.59	2.65	0.67
	50	0.17	0.60	1.24	1.95	0.60		50	0.14	0.57	1.39	2.68	0.69
	60	0.47	1.18	1.77	1.97	0.63		60	0.45	1.32	2.29	2.69	0.71
	70	0.89	1.63	-	1.87	0.67		70	0.97	2.08	-	2.52	0.74
80	1.15	-	-	1.52	0.70	80	1.45	-	-	2.04	0.75		

Devcan 6.7.7, April 2019, National Cancer Institute (<https://surveillance.cancer.gov/devcan/>).

Source: Incidence data are from the SEER 21 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts). Mortality data are from the NCHS public use data file for the total US.

^a Underlying incidence and mortality data for American Indian/Alaska Native are based on the PRCD (Purchased/Referred Care Delivery Areas) counties.

^b Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Underlying incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

- Statistic could not be calculated.

A percent of 0.00 represents a value that is below 0.005.

Table 27.14
Cancer of the Urinary Bladder (Invasive and In Situ)

Risk of Being Diagnosed With Cancer in 10, 20 and 30 Years,
Lifetime Risk of Being Diagnosed with Cancer Given Alive and Cancer-Free at Current Age, and
Lifetime Risk of Dying from Cancer Given Alive at Current Age
Females, 2014-2016 By Race/Ethnicity

Race/ Ethnicity	Current Age	Risk of Being Diagnosed with Cancer				Risk of Dying from Cancer	Race/ Ethnicity	Current Age	Risk of Being Diagnosed with Cancer				Risk of Dying from Cancer
		+10 yrs	+20 yrs	+30 yrs	Ever				+10 yrs	+20 yrs	+30 yrs	Ever	
All Races	0	0.00	0.00	0.00	1.18	0.35	Asian/ Pacific Islander	0	0.00	0.00	0.00	0.69	0.24
	10	0.00	0.00	0.01	1.19	0.35		10	0.00	0.00	0.01	0.70	0.25
	20	0.00	0.01	0.03	1.19	0.35		20	0.00	0.01	0.01	0.70	0.25
	30	0.01	0.03	0.12	1.19	0.35		30	0.00	0.01	0.04	0.70	0.25
	40	0.02	0.11	0.32	1.20	0.35		40	0.01	0.04	0.13	0.70	0.25
	50	0.09	0.31	0.69	1.19	0.36		50	0.03	0.12	0.31	0.70	0.25
	60	0.23	0.62	1.01	1.15	0.36		60	0.09	0.28	0.53	0.68	0.25
	70	0.44	0.87	-	1.02	0.36		70	0.20	0.45	-	0.61	0.25
80	0.54	-	-	0.73	0.33	80	0.29	-	-	0.47	0.23		
White	0	0.00	0.00	0.00	1.26	0.35	American Indian/ Alaska Native ^a	0	0.00	0.00	0.01	0.68	0.27
	10	0.00	0.00	0.01	1.27	0.35		10	0.00	0.01	0.01	0.69	0.28
	20	0.00	0.01	0.04	1.27	0.35		20	0.00	0.01	0.03	0.69	0.28
	30	0.01	0.03	0.13	1.27	0.36		30	0.00	0.02	0.08	0.69	0.28
	40	0.03	0.12	0.36	1.28	0.36		40	0.02	0.08	0.19	0.70	0.29
	50	0.10	0.34	0.75	1.27	0.36		50	0.06	0.18	0.31	0.70	0.30
	60	0.25	0.68	1.09	1.22	0.37		60	0.12	0.26	0.52	0.67	0.30
	70	0.47	0.93	-	1.07	0.36		70	0.15	0.44	-	0.61	0.32
80	0.57	-	-	0.76	0.34	80	0.37	-	-	0.58	0.32		
Black	0	0.00	0.00	0.00	0.84	0.34	Hispanic ^b	0	0.00	0.00	0.00	0.81	0.28
	10	0.00	0.00	0.01	0.85	0.35		10	0.00	0.00	0.01	0.81	0.28
	20	0.00	0.01	0.02	0.85	0.35		20	0.00	0.01	0.02	0.82	0.28
	30	0.00	0.02	0.08	0.86	0.35		30	0.00	0.02	0.06	0.82	0.28
	40	0.02	0.08	0.22	0.86	0.36		40	0.01	0.06	0.17	0.82	0.28
	50	0.06	0.21	0.46	0.87	0.36		50	0.04	0.16	0.40	0.81	0.28
	60	0.15	0.43	0.71	0.86	0.37		60	0.12	0.36	0.64	0.79	0.28
	70	0.31	0.63	-	0.81	0.37		70	0.26	0.56	-	0.72	0.29
80	0.42	-	-	0.65	0.35	80	0.36	-	-	0.55	0.27		

Devcan 6.7.7, April 2019, National Cancer Institute (<https://surveillance.cancer.gov/devcan/>).

Source: Incidence data are from the SEER 21 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts). Mortality data are from the NCHS public use data file for the total US.

^a Underlying incidence and mortality data for American Indian/Alaska Native are based on the PRCDA (Purchased/Referred Care Delivery Areas) counties.

^b Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Underlying incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

- Statistic could not be calculated.

A percent of 0.00 represents a value that is below 0.005.

Table 27.15
Cancer of the Urinary Bladder

SEER Incidence (Invasive and *In Situ*) and U.S. Mortality
Age-Adjusted Rates and Trends^a
By Race/Ethnicity and Sex

SEER Incidence	SEER 21 Areas ^b			SEER 21 Areas ^b			SEER 9 Areas ^b		
	Rate 2012-2016			Trend 2007-2016 ^c			Trend 2007-2016 ^d		
	Rate per 100,000 persons			AAPC (%)			AAPC (%)		
Race/Ethnicity	Total	Males	Females	Total	Males	Females	Total	Males	Females
All Races	20.1	35.2	8.7	-1.6*	-1.8*	-1.1*	-1.2*	-1.3*	-1.2*
White	22.2	38.5	9.5	-1.5*	-1.8*	-1.1*	-1.1*	-1.4*	-1.0*
White Hispanic ^e	11.4	20.0	5.2	-2.1*	-2.2*	-1.8*	-	-	-
White Non-Hispanic ^e	23.8	41.2	10.2	-1.3*	-1.5*	-0.9*	-	-	-
Black	11.8	19.7	6.6	-0.3	-1.3	-0.8*	0.2*	0.4*	0.1
Asian/Pacific Islander	8.8	15.5	3.8	-0.9*	-0.9*	-1.0	-	-	-
Amer Ind/Alaska Nat ^f	8.9	14.9	4.5	0.7	0.4	1.7	-	-	-
Hispanic ^e	11.1	19.5	5.1	-1.3*	-1.3*	-1.7*	-	-	-
<u>U.S. Mortality^g</u>									
U.S. Mortality ^g	Rate 2012-2016			Trend 2007-2016 ^h					
	Rate per 100,000 persons			AAPC (%)					
	Total	Males	Females	Total	Males	Females			
Race/Ethnicity	Total	Males	Females	Total	Males	Females			
All Races	4.4	7.6	2.1	0.0	-0.3*	-0.5*			
White	4.6	8.0	2.2	0.2*	0.0	-0.3*			
White Hispanic ^e	2.4	4.1	1.3	-0.6*	-0.7*	-0.8			
White Non-Hispanic ^e	4.8	8.4	2.3	0.3*	0.2*	-0.2*			
Black	3.5	5.4	2.4	-0.7*	-0.3	-1.4*			
Asian/Pacific Islander	1.7	2.9	0.9	-0.3	-0.1	-0.8			
Amer Ind/Alaska Nat									
Total U.S.	1.9	3.0	1.1	0.5	1.0	-1.0			
PRCDA Counties	2.4	3.9	1.4	2.2	3.7	-			
Non-PRCDA Counties	1.2	2.0	0.6	-2.6	-0.1	-6.2*			
Hispanic ^e	2.3	3.8	1.2	-0.7*	-0.8*	-0.8			

The AAPC is the Average Annual Percent Change over the time interval. The AAPCs are calculated by the Joinpoint Regression Program Version 4.7, February 2019, 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.

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).

The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta.

The SEER 21 areas comprise the SEER 9 areas plus San Jose-Monterey, Los Angeles, the Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts.

The 2007-2016 AAPC estimates are based on a Joinpoint analysis with up to 3 Joinpoints over diagnosis years 2000-2016.

The 2007-2016 AAPC estimates are based on a Joinpoint analysis with up to 5 Joinpoints over diagnosis years 1975-2016.

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.

Incidence data for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) counties.

US Mortality Files, National Center for Health Statistics, CDC.

The 2007-2016 mortality AAPCs are based on a Joinpoint analysis using years of death 2000-2016.

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

Table 27.16
Cancer of the Urinary Bladder (Invasive and *In Situ*)

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

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>SEER Incidence Rates^a, 2012-2016</u>									
California	17.01	29.81	7.04	18.74	32.68	7.71	12.77	21.59	6.38
Greater Bay Area	16.49	28.81	6.95	19.55	33.92	8.15	12.67	20.64	6.94
San Francisco-Oakland	16.68	29.22	7.06	20.05	34.60	8.53	12.50	20.82	6.66
San Jose-Monterey	16.13	28.03	6.74	18.68	32.74	7.49	14.34	19.91	-
Los Angeles	15.24	27.16	6.29	17.14	30.39	6.95	12.52	22.53	5.84
Greater California	17.98	31.31	7.41	19.12	33.17	7.87	12.94	20.90	6.64
Connecticut	26.02	45.05	11.79	27.19	46.91	12.23	13.45	21.78	8.26
Detroit	23.59	41.35	10.60	26.63	46.46	11.58	13.96	23.58	7.79
Georgia	18.26	32.68	7.78	20.88	37.24	8.33	11.06	17.86	6.82
Atlanta	16.67	30.05	7.50	19.65	35.37	8.10	11.91	20.06	7.02
Rural Georgia	17.85	31.76	6.69	20.80	35.79	7.42	11.93	21.44	-
Greater Georgia	19.04	33.88	8.03	21.37	37.98	8.50	10.48	16.28	6.78
Hawaii	13.76	23.86	5.61	22.46	37.01	7.35	21.95	-	-
Idaho	21.53	36.56	8.62	21.56	36.74	8.49	-	-	-
Iowa	21.50	37.69	8.82	21.53	37.76	8.81	13.52	22.84	-
Kentucky	22.33	38.51	10.03	22.98	39.51	10.32	12.18	21.50	5.70
Louisiana	18.37	32.51	7.63	21.06	37.41	8.16	11.07	17.22	6.64
Massachusetts	21.98	37.65	10.41	23.03	39.39	10.88	10.14	15.83	6.34
New Jersey	23.24	40.70	10.51	25.10	43.80	11.25	12.45	21.81	6.69
New Mexico	15.10	25.57	6.58	15.82	26.83	6.72	12.92	23.45	-
New York	22.97	40.27	10.31	26.24	45.48	11.73	10.71	18.37	5.99
Seattle-Puget Sound	22.50	39.34	9.19	23.90	41.61	9.64	16.39	25.82	8.17
Utah	16.55	29.30	5.81	16.88	29.81	5.93	-	-	-
SEER 9 Areas ^b	20.08	35.06	8.58	22.26	38.64	9.33	13.11	21.95	7.31
SEER 13 Areas ^b	18.77	32.89	7.96	21.02	36.65	8.73	12.98	22.10	6.96
SEER 18 Areas ^b	19.28	33.73	8.22	21.17	36.90	8.87	12.25	20.41	6.78
SEER 21 Areas ^b	20.14	35.17	8.74	22.19	38.55	9.51	11.77	19.72	6.56

^a Rates are per 100,000 and are 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 18 areas comprise the SEER 13 areas plus California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey and Georgia excluding ATL/RG.

The SEER 21 areas comprise the SEER 18 areas plus Idaho, New York and Massachusetts.

- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 27.17
Cancer of the Urinary Bladder

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

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>SEER Death Rates^a, 2012-2016</u>									
California	3.96	6.88	1.86	4.42	7.72	2.02	3.86	5.75	2.57
Greater Bay Area	3.42	6.03	1.58	4.07	7.21	1.82	4.11	6.34	2.60
San Francisco-Oakland	3.56	6.24	1.67	4.27	7.47	1.96	4.27	6.97	2.49
San Jose-Monterey	3.16	5.64	1.41	3.72	6.77	1.56	-	-	-
Los Angeles	3.51	6.07	1.74	3.92	6.85	1.87	3.82	6.02	2.41
Greater California	4.35	7.54	2.02	4.70	8.17	2.14	3.78	5.18	2.75
Connecticut	4.80	8.36	2.40	5.00	8.75	2.43	3.17	4.41	2.41
Detroit	4.66	7.87	2.53	4.92	8.50	2.49	4.03	5.96	2.81
Georgia	4.65	8.18	2.32	5.00	9.02	2.22	3.79	5.38	2.88
Atlanta	4.30	7.56	2.26	4.56	8.47	1.95	4.15	5.96	3.14
Rural Georgia	4.14	7.18	-	4.67	8.34	-	-	-	-
Greater Georgia	4.82	8.48	2.37	5.16	9.23	2.32	3.61	5.12	2.75
Hawaii	2.94	5.08	1.34	4.90	8.19	1.80	-	-	-
Idaho	4.35	7.38	1.94	4.37	7.46	1.92	-	-	-
Iowa	4.24	7.46	2.03	4.26	7.50	2.03	-	-	-
Kentucky	4.75	7.98	2.55	4.85	8.11	2.61	3.58	6.63	1.93
Louisiana	4.01	6.70	2.14	4.08	7.17	1.86	3.89	5.20	3.03
Massachusetts	4.73	8.25	2.43	5.00	8.76	2.53	2.56	3.63	1.97
New Jersey	4.69	8.14	2.45	5.11	8.90	2.59	3.41	5.60	2.19
New Mexico	4.13	6.84	2.06	4.27	7.06	2.11	-	-	-
New York	4.27	7.39	2.20	4.73	8.15	2.40	2.83	4.61	1.81
Seattle-Puget Sound	4.72	8.01	2.35	5.01	8.52	2.46	4.20	6.11	-
Utah	3.45	6.15	1.37	3.52	6.25	1.43	-	-	-
SEER 9 Areas ^b	4.21	7.25	2.08	4.56	7.92	2.17	3.95	5.87	2.74
SEER 13 Areas ^b	3.99	6.89	1.98	4.38	7.63	2.08	3.90	5.81	2.68
SEER 18 Areas ^b	4.26	7.34	2.11	4.62	8.03	2.19	3.76	5.55	2.65
SEER 21 Areas ^b	4.29	7.41	2.14	4.66	8.09	2.25	3.48	5.25	2.40
Total U.S.	4.38	7.57	2.14	4.61	8.02	2.18	3.49	5.35	2.38

^a 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).

^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 18 areas comprise the SEER 13 areas plus California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey and Georgia excluding ATL/RG.

The SEER 21 areas comprise the SEER 18 areas plus Idaho, New York and Massachusetts.

- Statistic not shown. Rate based on less than 16 cases for the time interval.

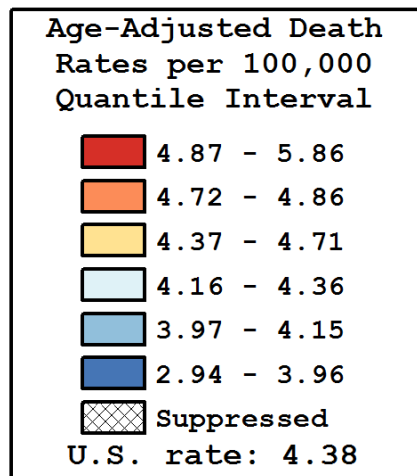
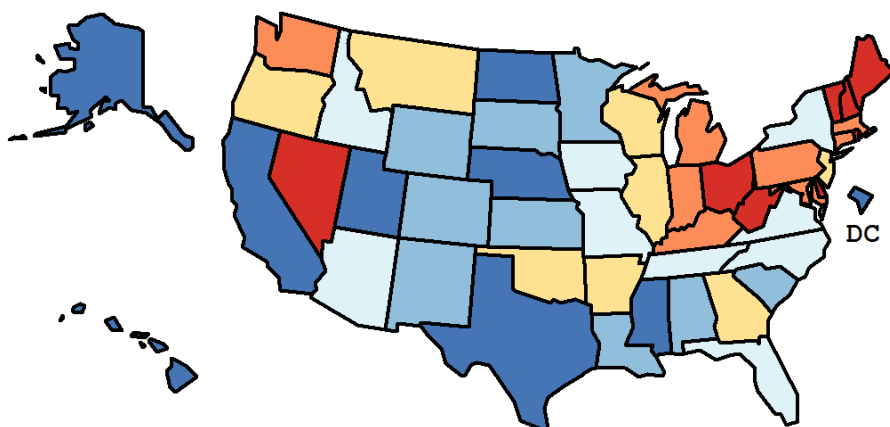
Table 27.18
Cancer of the Urinary Bladder (Invasive)

Age-Adjusted Cancer Death^a Rates By State, All Races, 2012-2016

Males and Females

State	Rate	SE	Rank(CI) ^d	PD
TOTAL U.S.	4.38	0.02		
High Five States				
Vermont	5.86	0.39	01(01,14)	33.93 ^c
Maine	5.44	0.24	02(01,16)	24.40 ^c
New Hampshire	5.26	0.26	03(01,22)	20.10 ^c
Delaware	5.12	0.30	04(01,33)	17.04 ^c
Nevada	5.11	0.19	05(01,22)	16.71 ^c
Low Five States				
Alaska	3.78	0.40	47(06,51)	-13.62
Texas	3.76	0.06	48(41,50)	-14.09
Utah	3.45	0.18	49(39,51)	-21.11 ^c
North Dakota	3.44	0.29	50(26,51)	-21.46 ^c
Hawaii	2.94	0.18	51(48,51)	-32.85 ^c

State	Rate	SE	Rank(CI) ^d	PD	State	Rate	SE	Rank(CI) ^d	PD
Alabama	4.14	0.12	35(22,47)	-5.41	Montana	4.60	0.27	21(02,45)	5.14
Alaska	3.78	0.40	47(06,51)	-13.62	Nebraska	3.94	0.19	44(22,50)	-9.93
Arizona	4.16	0.10	33(23,45)	-5.04	Nevada	5.11	0.19	05(01,22)	16.71 ^c
Arkansas	4.71	0.16	17(04,33)	7.53	New Hampshire	5.26	0.26	03(01,22)	20.10 ^c
California	3.96	0.05	43(35,47)	-9.54	New Jersey	4.69	0.09	18(06,26)	7.28
Colorado	4.06	0.13	37(24,48)	-7.28	New Mexico	4.13	0.19	36(16,49)	-5.74
Connecticut	4.80	0.15	10(03,26)	9.77	New York	4.27	0.06	31(23,39)	-2.49
Delaware	5.12	0.30	04(01,33)	17.04 ^c	North Carolina	4.27	0.09	30(21,42)	-2.46
D.C.	3.82	0.35	46(07,51)	-12.73	North Dakota	3.44	0.29	50(26,51)	-21.46 ^c
Florida	4.35	0.05	28(21,37)	-0.70	Ohio	5.05	0.09	07(02,13)	15.45 ^c
Georgia	4.65	0.10	20(07,28)	6.16	Oklahoma	4.69	0.15	19(04,32)	7.23
Hawaii	2.94	0.18	51(48,51)	-32.85 ^c	Oregon	4.56	0.14	22(07,36)	4.18
Idaho	4.35	0.23	27(06,47)	-0.63	Pennsylvania	4.80	0.08	11(05,22)	9.60
Illinois	4.43	0.08	24(17,34)	1.33	Rhode Island	5.10	0.28	06(01,31)	16.58 ^c
Indiana	4.86	0.12	09(03,23)	11.00	South Carolina	4.15	0.12	34(21,47)	-5.26
Iowa	4.24	0.15	32(16,46)	-3.15	South Dakota	4.05	0.28	39(08,50)	-7.54
Kansas	4.05	0.16	38(22,49)	-7.46	Tennessee	4.36	0.11	25(15,40)	-0.47
Kentucky	4.75	0.14	15(03,28)	8.58	Texas	3.76	0.06	48(41,50)	-14.09
Louisiana	4.01	0.13	41(26,49)	-8.48	Utah	3.45	0.18	49(39,51)	-21.11 ^c
Maine	5.44	0.24	02(01,16)	24.40 ^c	Vermont	5.86	0.39	01(01,14)	33.93 ^c
Maryland	4.77	0.12	13(04,26)	8.92	Virginia	4.35	0.10	26(18,40)	-0.59
Massachusetts	4.73	0.11	16(05,25)	8.11	Washington	4.76	0.11	14(04,26)	8.83
Michigan	4.77	0.09	12(05,23)	9.04	West Virginia	4.87	0.20	08(02,31)	11.32
Minnesota	4.03	0.11	40(25,48)	-7.84	Wisconsin	4.52	0.11	23(09,35)	3.31
Mississippi	3.84	0.16	45(29,50)	-12.30	Wyoming	3.97	0.36	42(05,51)	-9.37
Missouri	4.28	0.11	29(19,43)	-2.25					



^a 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).

^b Difference between state rate and total U.S. rate is statistically significant ($p < .0002$).

^c Absolute percent difference between state rate and total U.S. rate is 15% or more.

^d Rank of state level death rate and the 95% confidence intervals (low, high) for the rank.

SE Standard error of the rate.

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

- Statistic not shown. Rate based on less than 16 cases for the time interval.

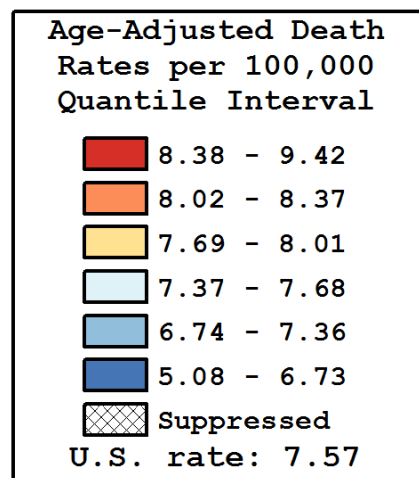
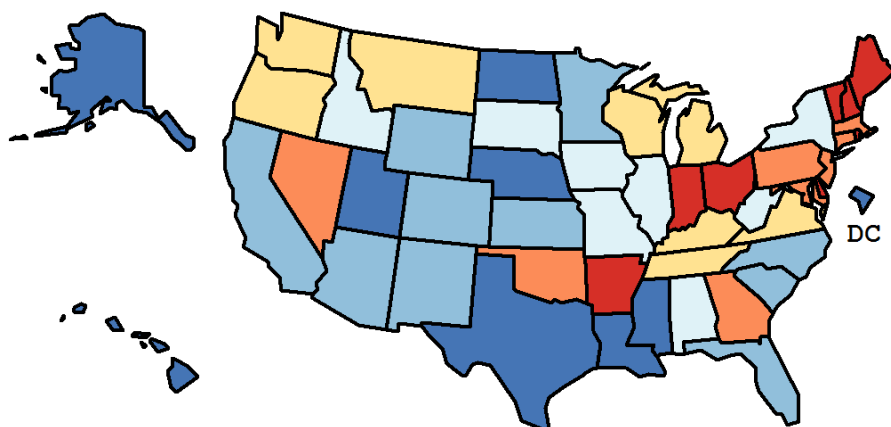
Table 27.19
Cancer of the Urinary Bladder (Invasive)

Age-Adjusted Cancer Death^a Rates By State, All Races, 2012-2016

Males

State	Rate	SE	Rank(CI) ^d	PD
TOTAL U.S.	7.57	0.03		
High Five States				
New Hampshire	9.42	0.53	01(01,21)	24.45 ^c
Vermont	9.39	0.76	02(01,34)	24.10 ^c
Maine	9.34	0.49	03(01,21)	23.37 ^c
Rhode Island	9.17	0.59	04(01,30)	21.20 ^c
Ohio	8.93	0.18	05(01,11)	18.04 ^c
Low Five States				
Utah	6.15	0.36	47(34,51)	-18.68 ^c
North Dakota	6.11	0.58	48(20,51)	-19.27 ^c
Alaska	5.28	0.73	49(22,51)	-30.18 ^c
D.C.	5.15	0.65	50(33,51)	-32.02 ^c
Hawaii	5.08	0.37	51(46,51)	-32.84 ^c

State	Rate	SE	Rank(CI) ^d	PD	State	Rate	SE	Rank(CI) ^d	PD
Alabama	7.50	0.26	28(12,44)	-0.88	Montana	7.78	0.53	22(02,47)	2.76
Alaska	5.28	0.73	49(22,51)	-30.18 ^c	Nebraska	6.73	0.38	43(19,50)	-11.03
Arizona	7.07	0.20	38(24,46)	-6.57	Nevada	8.31	0.37	12(02,36)	9.79
Arkansas	8.45	0.35	07(01,30)	11.69	New Hampshire	9.42	0.53	01(01,21)	24.45 ^c
California	6.88	0.09	41(34,46)	-9.04	New Jersey	8.14	0.20	16(05,28)	7.58
Colorado	6.93	0.26	40(23,48)	-8.41	New Mexico	6.84	0.37	42(18,49)	-9.56
Connecticut	8.36	0.30	10(02,30)	10.50	New York	7.39	0.13	31(22,40)	-2.37
Delaware	8.65	0.61	06(01,40)	14.29	North Carolina	7.36	0.19	33(19,42)	-2.69
D.C.	5.15	0.65	50(33,51)	-32.02 ^c	North Dakota	6.11	0.58	48(20,51)	-19.27 ^c
Florida	7.36	0.11	34(24,40)	-2.81	Ohio	8.93	0.18	05(01,11)	18.04 ^c
Georgia	8.18	0.22	15(04,29)	8.12	Oklahoma	8.21	0.30	14(03,33)	8.51
Hawaii	5.08	0.37	51(46,51)	-32.84 ^c	Oregon	7.78	0.28	21(06,40)	2.76
Idaho	7.38	0.45	32(05,48)	-2.44	Pennsylvania	8.37	0.16	09(04,21)	10.63
Illinois	7.68	0.16	26(13,37)	1.43	Rhode Island	9.17	0.59	04(01,30)	21.20 ^c
Indiana	8.45	0.24	08(02,24)	11.64	South Carolina	7.08	0.26	37(21,47)	-6.48
Iowa	7.46	0.30	29(10,45)	-1.38	South Dakota	7.55	0.59	27(02,48)	-0.22
Kansas	7.20	0.32	35(13,47)	-4.92	Tennessee	7.72	0.23	23(08,39)	2.03
Kentucky	7.98	0.29	19(04,37)	5.50	Texas	6.58	0.12	45(38,48)	-13.05
Louisiana	6.70	0.26	44(28,49)	-11.46	Utah	6.15	0.36	47(34,51)	-18.68 ^c
Maine	9.34	0.49	03(01,21)	23.37 ^c	Vermont	9.39	0.76	02(01,34)	24.10 ^c
Maryland	8.31	0.26	11(03,28)	9.82	Virginia	7.69	0.21	24(10,38)	1.60
Massachusetts	8.25	0.23	13(04,28)	9.02	Washington	8.00	0.23	18(06,34)	5.67
Michigan	8.01	0.18	17(06,29)	5.87	West Virginia	7.68	0.39	25(05,45)	1.51
Minnesota	7.17	0.24	36(20,46)	-5.29	Wisconsin	7.97	0.24	20(06,34)	5.30
Mississippi	6.53	0.32	46(28,50)	-13.76	Wyoming	7.02	0.73	39(03,51)	-7.23
Missouri	7.41	0.23	30(15,43)	-2.14					



^a 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).

^b Difference between state rate and total U.S. rate is statistically significant ($p < .0002$).

^c Absolute percent difference between state rate and total U.S. rate is 15% or more.

^d Rank of state level death rate and the 95% confidence intervals (low, high) for the rank.

SE Standard error of the rate.

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

- Statistic not shown. Rate based on less than 16 cases for the time interval.

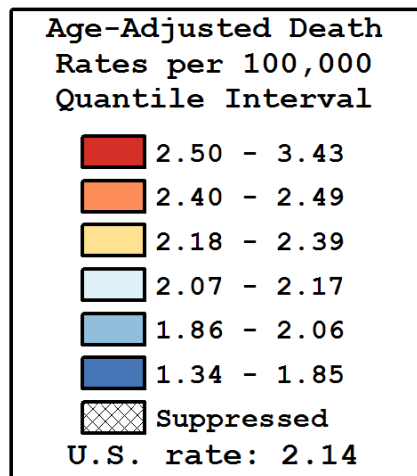
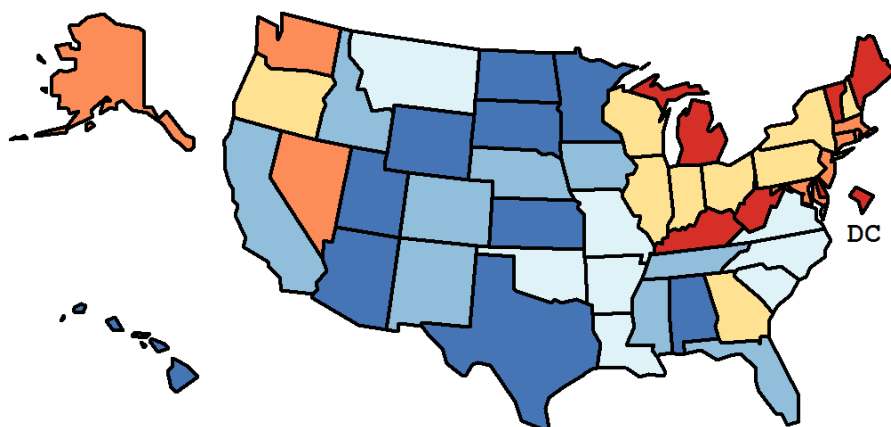
Table 27.20
Cancer of the Urinary Bladder (Invasive)

Age-Adjusted Cancer Death^a Rates By State, All Races, 2012-2016

Females

State	Rate	SE	Rank(CI) ^d	PD
TOTAL U.S.	2.14	0.01		
High Five States				
Vermont	3.43	0.41	01(01,23)	60.18 ^c
D.C.	2.97	0.41	02(01,42)	38.92 ^c
West Virginia	2.86	0.21	03(01,22)	33.61 ^c
Maine	2.65	0.23	04(01,36)	23.65 ^c
Delaware	2.64	0.29	05(01,43)	23.53 ^c
Low Five States				
South Dakota	1.56	0.24	47(19,51)	-27.14 ^c
Wyoming	1.52	0.30	48(08,51)	-29.02 ^c
North Dakota	1.40	0.25	49(23,51)	-34.54 ^c
Utah	1.37	0.15	50(41,51)	-35.88 ^c
Hawaii	1.34	0.16	51(41,51)	-37.37 ^c

State	Rate	SE	Rank(CI) ^d	PD	State	Rate	SE	Rank(CI) ^d	PD
Alabama	1.85	0.11	44(25,49)	-13.75	Montana	2.16	0.25	26(02,49)	1.14
Alaska	2.49	0.44	08(01,51)	16.23 ^c	Nebraska	1.98	0.18	38(06,49)	-7.67
Arizona	1.85	0.09	42(27,48)	-13.48	Nevada	2.46	0.18	10(02,39)	14.98
Arkansas	2.08	0.15	31(07,47)	-2.78	New Hampshire	2.29	0.23	20(02,47)	7.02
California	1.86	0.04	41(34,47)	-12.99	New Jersey	2.45	0.09	11(03,27)	14.43
Colorado	1.93	0.12	40(19,48)	-9.83	New Mexico	2.06	0.18	33(05,48)	-3.80
Connecticut	2.40	0.14	14(03,36)	12.35	New York	2.20	0.06	22(13,35)	3.00
Delaware	2.64	0.29	05(01,43)	23.53 ^c	North Carolina	2.17	0.08	25(10,39)	1.58
D.C.	2.97	0.41	02(01,42)	38.92 ^c	North Dakota	1.40	0.25	49(23,51)	-34.54 ^c
Florida	2.04	0.05	34(23,42)	-4.52	Ohio	2.38	0.08	18(05,28)	11.19
Georgia	2.32	0.09	19(05,34)	8.61	Oklahoma	2.13	0.13	29(07,46)	-0.62
Hawaii	1.34	0.16	51(41,51)	-37.37 ^c	Oregon	2.18	0.13	24(06,44)	1.69
Idaho	1.94	0.20	39(07,50)	-9.11	Pennsylvania	2.39	0.07	17(05,27)	11.51
Illinois	2.27	0.07	21(08,34)	5.94	Rhode Island	2.46	0.25	09(01,45)	14.99
Indiana	2.39	0.11	16(03,33)	11.52	South Carolina	2.13	0.12	28(09,45)	-0.62
Iowa	2.03	0.13	37(11,48)	-5.35	South Dakota	1.56	0.24	47(19,51)	-27.14 ^c
Kansas	1.80	0.14	45(20,50)	-16.02 ^c	Tennessee	2.04	0.10	35(16,46)	-4.82
Kentucky	2.55	0.13	06(02,29)	18.99 ^c	Texas	1.76	0.05	46(38,49)	-17.75 ^c
Louisiana	2.14	0.12	27(07,44)	0.03	Utah	1.37	0.15	50(41,51)	-35.88 ^c
Maine	2.65	0.23	04(01,36)	23.65 ^c	Vermont	3.43	0.41	01(01,23)	60.18 ^c
Maryland	2.40	0.11	15(03,34)	12.15	Virginia	2.07	0.09	32(15,45)	-3.10
Massachusetts	2.43	0.10	12(03,29)	13.52	Washington	2.41	0.11	13(03,31)	12.41
Michigan	2.52	0.09	07(03,22)	18.00 ^c	West Virginia	2.86	0.21	03(01,22)	33.61 ^c
Minnesota	1.85	0.10	43(24,49)	-13.56	Wisconsin	2.18	0.11	23(07,42)	1.85
Mississippi	2.03	0.15	36(08,48)	-5.03	Wyoming	1.52	0.30	48(08,51)	-29.02 ^c
Missouri	2.08	0.10	30(14,44)	-2.61					



^a 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).

^b Difference between state rate and total U.S. rate is statistically significant ($p < .0002$).

^c Absolute percent difference between state rate and total U.S. rate is 15% or more.

^d Rank of state level death rate and the 95% confidence intervals (low, high) for the rank.

SE Standard error of the rate.

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

- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 27.21
Cancer of the Urinary Bladder (Invasive and *In Situ*)

Estimated United States Cancer Prevalence Counts^a on January 1, 2016
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 <24	0 to <24 ^b	>=24 ^d	Complete ^e
<u>Race</u>	<u>Sex</u>								
All Races	Both Sexes	254,236	164,468	109,426	67,889	35,394	631,413	68,037	699,450
	Males	195,876	124,874	81,422	49,926	25,688	477,786	47,928	525,713
	Females	58,359	39,595	28,005	17,963	9,705	153,627	20,109	173,737
White	Both Sexes	229,902	149,755	100,692	63,306	32,990	576,645	54,539	640,868
	Males	177,987	114,172	75,052	46,755	23,912	437,878	38,280	483,506
	Females	51,915	35,583	25,640	16,551	9,079	138,768	16,259	157,361
Black	Both Sexes	14,181	7,937	5,008	2,693	1,478	31,297	1,899	33,196
	Males	10,118	5,683	3,495	1,763	1,077	22,137	1,506	23,642
	Females	4,063	2,254	1,513	930	401	9,161	394	9,554
Asian/ Pacific Islander	Both Sexes	5,234	3,346	2,007	1,007	495	12,088	+	+
	Males	3,973	2,547	1,523	700	378	9,121	+	+
	Females	1,261	799	484	307	116	2,967	+	+
Hispanic	Both Sexes	10,965	6,555	4,063	2,397	1,252	25,233	+	+
	Males	8,292	4,882	3,019	1,760	887	18,841	+	+
	Females	2,673	1,673	1,044	637	365	6,391	+	+

Estimated prevalence percent^a on January 1, 2016, of the SEER population diagnosed in the previous 24 years
By Age at Prevalence, Race/Ethnicity and Sex

Age at Prevalence		Age Specific (Crude)										Age-Adjusted ^c
		All Ages	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80+	All Ages
<u>Race</u>	<u>Sex</u>											
All Races	Both Sexes	0.1960	0.0003	0.0004	0.0018	0.0074	0.0285	0.1163	0.4081	1.0482	1.7281	0.1679
	Males	0.3012	0.0003	0.0005	0.0023	0.0101	0.0428	0.1788	0.6621	1.7797	3.3369	0.2938
	Females	0.0939	0.0002	0.0003	0.0011	0.0046	0.0144	0.0565	0.1781	0.4388	0.7385	0.0726
White	Both Sexes	0.2287	0.0002	0.0004	0.0018	0.0084	0.0318	0.1261	0.4405	1.1342	1.8405	0.1807
	Males	0.3504	0.0001	0.0004	0.0027	0.0115	0.0467	0.1926	0.7058	1.9111	3.5373	0.3135
	Females	0.1091	0.0002	0.0004	0.0009	0.0053	0.0168	0.0612	0.1945	0.4730	0.7782	0.0781
Black	Both Sexes	0.0694	0.0008	0.0001	0.0012	0.0032	0.0152	0.0699	0.2225	0.5057	0.8221	0.0848
	Males	0.1023	0.0011	-	0.0005	0.0038	0.0265	0.1070	0.3854	0.8725	1.5812	0.1508
	Females	0.0390	0.0005	0.0003	0.0019	0.0027	0.0052	0.0375	0.0924	0.2503	0.4474	0.0421
Asian/ Pacific Islander	Both Sexes	0.0594	0.0003	-	0.0007	0.0025	0.0100	0.0469	0.1621	0.3869	0.8154	0.0692
	Males	0.0935	0.0005	-	0.0010	0.0035	0.0154	0.0775	0.2801	0.6696	1.5166	0.1230
	Females	0.0280	-	-	0.0004	0.0017	0.0053	0.0204	0.0668	0.1597	0.3639	0.0297
Hispanic	Both Sexes	0.0442	0.0002	0.0003	0.0011	0.0044	0.0151	0.0533	0.1742	0.4869	0.8113	0.0782
	Males	0.0653	0.0003	0.0004	0.0017	0.0056	0.0211	0.0806	0.2828	0.8485	1.5600	0.1379
	Females	0.0226	0.0001	0.0002	0.0006	0.0031	0.0090	0.0265	0.0781	0.2097	0.3490	0.0347

^a US 2016 cancer prevalence counts are based on 2016 cancer prevalence proportions from the SEER 13 Areas (excluding the Alaska Native Registry) and 1/1/2016 US population estimates based on the average of 2015 and 2016 population estimates from the US Bureau of the Census.

^b Prevalence was calculated using the first invasive tumor for each cancer site diagnosed during the previous 24 years. Maximum limited-duration prevalence is 24 years for 1992-2016 data.

^c Percentages are age-adjusted to the 2000 US Standard Population (19 age groups - Census P25-1130) by 5-year age groups.

^d Cases diagnosed more than 24 years ago were estimated using the completeness index method (Capocaccia et. al. 1997, Merrill et. al. 2000).

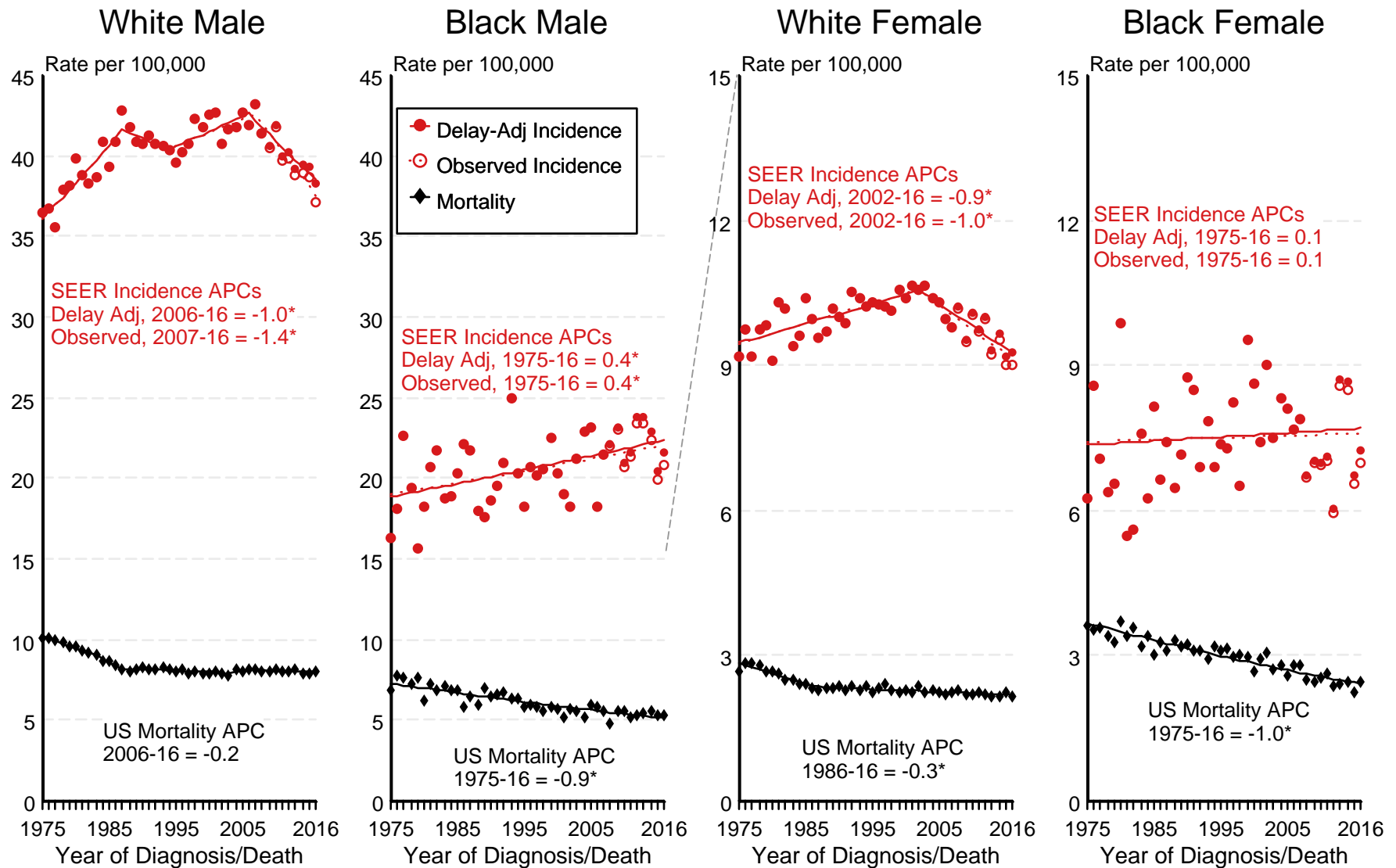
^e Complete prevalence is obtained by summing 0 to <24 and >=24.

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

+ Not available.

Figure 27.1

SEER Observed Incidence, SEER Delay Adjusted Incidence and US Death Rates^a Cancer of the Urinary Bladder, by Race and Sex



Source: SEER 9 areas and 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).

Regression lines and APCs are calculated using the Joinpoint Regression Program Version 4.7, February 2019, National Cancer Institute.

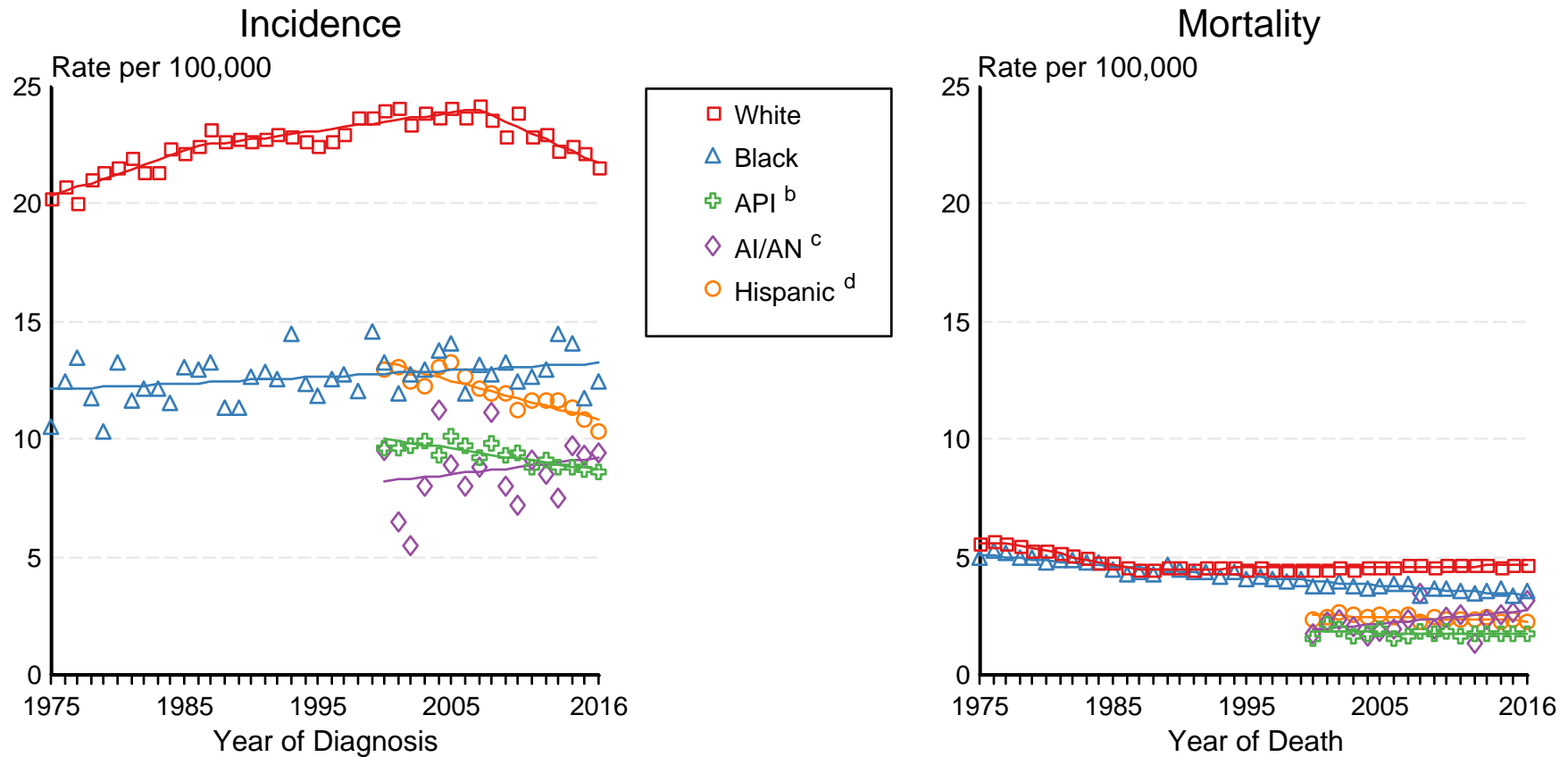
The APC is the Annual Percent Change for the regression line segments. The APC shown on the graph is for the most recent trend.

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

Figure 27.2

SEER Incidence and US Death Rates^a Cancer of the Urinary Bladder, Both Sexes

Joinpoint Analyses for Whites and Blacks from 1975-2016 and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016



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 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

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).

Regression lines are calculated using the Joinpoint Regression Program Version 4.7, February 2019, National Cancer Institute. Joinpoint analyses for Whites and Blacks during the 1975-2016 period allow a maximum of 5 joinpoints. Analyses for other ethnic groups during the period 2000-2016 allow a maximum of 3 joinpoints.

^b API = Asian/Pacific Islander.

^c AI/AN = American Indian/Alaska Native. Rates for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) counties.

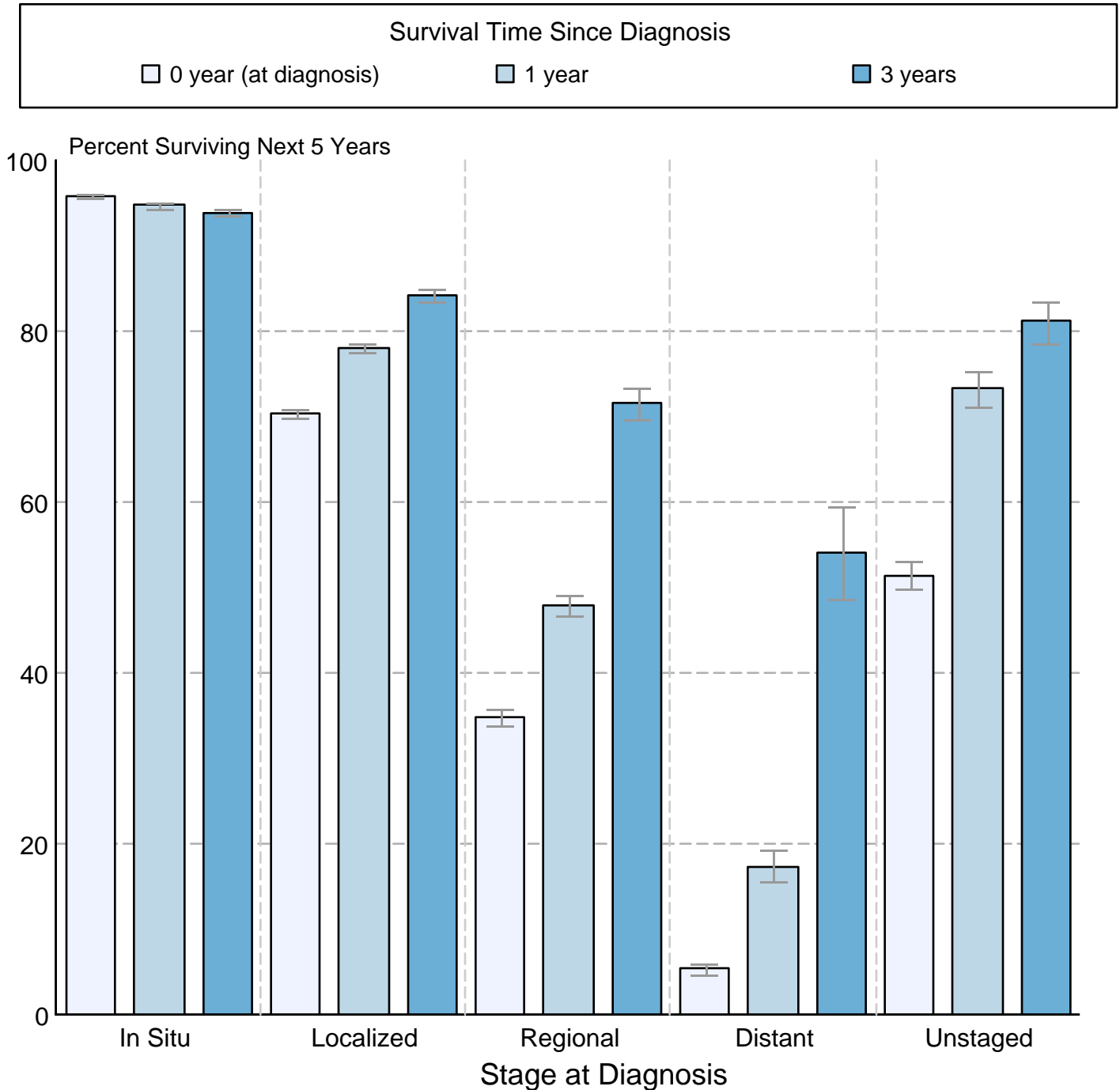
^d Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

Figure 27.3

Cancer of the Urinary Bladder

5-Year SEER Conditional Relative Survival and 95% Confidence Intervals

Probability of surviving the next 5 years given the cohort
has already survived 0, 1, or 3 years
2000-2015 by stage at diagnosis



Source: SEER 18 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey and Georgia excluding ATL/RG).
 Percent surviving is not shown if based on less than 25 cases.
 Confidence intervals are not shown if length of the confidence interval is greater than 5 times the standard error.