

Table 11.1
Cancer of the Kidney and Renal Pelvis (Invasive)

Trends in SEER Incidence^{ab} and U.S. Mortality^c Using the Joinpoint Regression Program,
1975-2014 With up to Five Joinpoints, 1992-2014 With up to Four 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	2005-14	2010-14
<u>SEER 9 Delay-Adjusted Incidence^a, 1975-2014</u>														
All Races	1975-94	2.3*	1994-97	-0.5	1997-08	3.2*	2008-14	0.0					1.0*	0.0
White	1975-92	2.3*	1992-97	0.3	1997-07	3.3*	2007-14	0.3					0.9*	0.3
Black	1975-14	2.8*											2.8*	2.8*
<u>SEER 13 Delay-Adjusted Incidence^b, 1992-2014</u>														
All Races	1992-99	1.4*	1999-08	3.3*	2008-14	-0.1							1.0*	-0.1
White	1992-97	0.9	1997-08	3.1*	2008-14	-0.1							1.0*	-0.1
Black	1992-09	3.0*	2009-14	0.1									1.4	0.1
<u>SEER 9 Observed Incidence^a, 1975-2014</u>														
All Races	1975-94	2.3*	1994-97	-0.5	1997-08	3.2*	2008-14	-0.5					0.7*	-0.5
White	1975-92	2.3*	1992-97	0.3	1997-07	3.3*	2007-14	-0.1					0.6*	-0.1
Black	1975-09	3.0*	2009-14	-0.4									1.1	-0.4
<u>SEER 13 Observed Incidence^b, 1992-2014</u>														
All Races	1992-99	1.4*	1999-08	3.3*	2008-14	-0.6							0.7*	-0.6
White	1992-97	0.9	1997-08	3.1*	2008-14	-0.5							0.7*	-0.5
White NH ^{ef}	1992-97	0.8	1997-08	3.0*	2008-14	-0.5							0.7*	-0.5
Black	1992-09	2.9*	2009-14	-0.6									0.9	-0.6
Black NH ^{ef}	1992-09	3.0*	2009-14	-0.5									1.0	-0.5
API ^e	1992-14	2.4*											2.4*	2.4*
AI/AN ^{eg}	1992-14	0.9											0.9	0.9
Hispanic ^f	1992-08	3.1*	2008-14	-0.6									0.6	-0.6
<u>U.S. Cancer Mortality^c, 1975-2014</u>														
All Races	1975-91	1.2*	1991-02	-0.1	2002-14	-0.9*							-0.9*	-0.9*
White	1975-95	0.9*	1995-14	-0.6*									-0.6*	-0.6*
Black	1975-94	2.3*	1994-14	-0.9*									-0.9*	-0.9*
<u>U.S. Cancer Mortality^c, 1992-2014</u>														
All Races	1992-02	-0.1	2002-14	-0.9*									-0.9*	-0.9*
White	1992-02	-0.1	2002-14	-0.8*									-0.8*	-0.8*
White NH ^{ef}	1992-02	-0.1	2002-14	-0.8*									-0.8*	-0.8*
Black	1992-95	3.0	1995-14	-0.9*									-0.9*	-0.9*
Black NH ^{ef}	1992-95	3.0	1995-14	-0.8*									-0.8*	-0.8*
API ^e	1992-14	0.0											0.0	0.0
AI/AN ^{eg}	1992-14	-0.1											-0.1	-0.1
Hispanic ^f	1992-04	0.8	2004-14	-1.0*									-1.0*	-1.0*

Joinpoint Regression Program Version 4.4, January 2017, 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).

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

Trends are from the SEER 13 areas (SEER 9 Areas, Los Angeles, San Jose-Monterey, Rural Georgia, and the Alaska Native Registry).

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

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

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 New Hampshire and Oklahoma.

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.

Table 11.2
Cancer of the Kidney and Renal Pelvis (Invasive)

Trends in SEER Incidence^{ab} and U.S. Mortality^c Using the Joinpoint Regression Program,
1975-2014 With up to Five Joinpoints, 1992-2014 With up to Four 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	2005-14	2010-14
<u>SEER 9 Delay-Adjusted Incidence^a, 1975-2014</u>														
All Races	1975-04	1.8*	2004-07	4.9	2007-14	0.5							1.4	0.5
White	1975-89	2.2*	1989-97	0.7	1997-08	2.8*	2008-14	0.3					1.1*	0.3
Black	1975-14	2.9*											2.9*	2.9*
<u>SEER 13 Delay-Adjusted Incidence^b, 1992-2014</u>														
All Races	1992-99	1.1*	1999-08	3.2*	2008-14	0.1							1.1*	0.1
White	1992-97	0.8	1997-08	2.9*	2008-14	0.1							1.0*	0.1
Black	1992-14	2.6*											2.6*	2.6*
<u>SEER 9 Observed Incidence^a, 1975-2014</u>														
All Races	1975-04	1.8*	2004-07	4.9	2007-14	0.1							1.1	0.1
White	1975-89	2.2*	1989-97	0.7	1997-08	2.8*	2008-14	-0.2					0.8*	-0.2
Black	1975-14	2.8*											2.8*	2.8*
<u>SEER 13 Observed Incidence^b, 1992-2014</u>														
All Races	1992-99	1.2*	1999-08	3.2*	2008-14	-0.3							0.8*	-0.3
White	1992-97	0.8	1997-08	2.9*	2008-14	-0.4							0.7*	-0.4
White NH ^{ef}	1992-09	2.4*	2009-14	-0.3									0.9*	-0.3
Black	1992-14	2.4*											2.4*	2.4*
Black NH ^{ef}	1992-14	2.5*											2.5*	2.5*
API ^e	1992-14	2.3*											2.3*	2.3*
AI/AN ^{eg}	1992-14	1.0											1.0	1.0
Hispanic ^f	1992-08	3.0*	2008-14	-1.1									0.2	-1.1
<u>U.S. Cancer Mortality^c, 1975-2014</u>														
All Races	1975-91	1.1*	1991-01	-0.1	2001-14	-0.8*							-0.8*	-0.8*
White	1975-91	1.0*	1991-01	-0.1	2001-14	-0.7*							-0.7*	-0.7*
Black	1975-91	3.1*	1991-14	-0.6*									-0.6*	-0.6*
<u>U.S. Cancer Mortality^c, 1992-2014</u>														
All Races	1992-01	-0.1	2001-14	-0.8*									-0.8*	-0.8*
White	1992-01	-0.1	2001-14	-0.7*									-0.7*	-0.7*
White NH ^{ef}	1992-14	-0.5*											-0.5*	-0.5*
Black	1992-14	-0.6*											-0.6*	-0.6*
Black NH ^{ef}	1992-14	-0.5*											-0.5*	-0.5*
API ^e	1992-14	0.2											0.2	0.2
AI/AN ^{eg}	1992-14	-0.3											-0.3	-0.3
Hispanic ^f	1992-14	-0.3											-0.3	-0.3

Joinpoint Regression Program Version 4.4, January 2017, 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).

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

Trends are from the SEER 13 areas (SEER 9 Areas, Los Angeles, San Jose-Monterey, Rural Georgia, and the Alaska Native Registry).

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

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

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 New Hampshire and Oklahoma.

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.

Table 11.3
Cancer of the Kidney and Renal Pelvis (Invasive)

Trends in SEER Incidence^{ab} and U.S. Mortality^c Using the Joinpoint Regression Program,
1975-2014 With up to Five Joinpoints, 1992-2014 With up to Four 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	2005-14	2010-14
<u>SEER 9 Delay-Adjusted Incidence^a, 1975-2014</u>														
All Races	1975-93	2.7*	1993-99	0.7	1999-07	3.9*	2007-14	-0.6					0.4	-0.6
White	1975-92	2.8*	1992-99	0.7	1999-06	4.3*	2006-14	-0.2					0.3	-0.2
Black	1975-08	3.0*	2008-14	-1.1									0.2	-1.1
<u>SEER 13 Delay-Adjusted Incidence^b, 1992-2014</u>														
All Races	1992-00	1.6*	2000-07	3.7*	2007-14	-0.3							0.6	-0.3
White	1992-99	1.3	1999-07	3.7*	2007-14	-0.3							0.6	-0.3
Black	1992-14	2.1*											2.1*	2.1*
<u>SEER 9 Observed Incidence^a, 1975-2014</u>														
All Races	1975-93	2.7*	1993-99	0.7	1999-07	3.9*	2007-14	-1.0					0.1	-1.0
White	1975-92	2.8*	1992-99	0.7	1999-06	4.4*	2006-14	-0.6					0.0	-0.6
Black	1975-08	3.0*	2008-14	-1.7									-0.1	-1.7
<u>SEER 13 Observed Incidence^b, 1992-2014</u>														
All Races	1992-98	1.2	1998-08	3.2*	2008-14	-1.1							0.3	-1.1
White	1992-99	1.3	1999-07	3.7*	2007-14	-0.7							0.3	-0.7
White NH ^{ef}	1992-97	0.0	1997-07	3.4*	2007-14	-0.9							0.0	-0.9
Black	1992-09	2.8*	2009-14	-2.0									0.1	-2.0
Black NH ^{ef}	1992-09	2.9*	2009-14	-2.0									0.1	-2.0
API ^e	1992-14	2.6*											2.6*	2.6*
AI/AN ^{eg}	1992-14	0.7											0.7	0.7
Hispanic ^f	1992-12	2.7*	2012-14	-6.4									0.6	-1.9
<u>U.S. Cancer Mortality^c, 1975-2014</u>														
All Races	1975-95	1.1*	1995-14	-1.1*									-1.1*	-1.1*
White	1975-95	1.1*	1995-14	-1.0*									-1.0*	-1.0*
Black	1975-95	2.3*	1995-14	-1.2*									-1.2*	-1.2*
<u>U.S. Cancer Mortality^c, 1992-2014</u>														
All Races	1992-05	-0.4*	2005-14	-1.6*									-1.6*	-1.6*
White	1992-05	-0.4*	2005-14	-1.6*									-1.6*	-1.6*
White NH ^{ef}	1992-05	-0.4	2005-14	-1.6*									-1.6*	-1.6*
Black	1992-11	-0.5*	2011-14	-5.8									-2.3*	-4.5
Black NH ^{ef}	1992-11	-0.5*	2011-14	-5.5									-2.2	-4.2
API ^e	1992-14	-0.4											-0.4	-0.4
AI/AN ^{eg}	1992-14	-0.4											-0.4	-0.4
Hispanic ^f	1992-14	-0.1											-0.1	-0.1

Joinpoint Regression Program Version 4.4, January 2017, 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).

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

Trends are from the SEER 13 areas (SEER 9 Areas, Los Angeles, San Jose-Monterey, Rural Georgia, and the Alaska Native Registry).

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

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

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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.

Table 11.4
Cancer of the Kidney and Renal Pelvis (Invasive)

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	7.08	10.34	4.52	7.33	10.82	4.63	6.17	8.24	4.31
1976	7.97	11.20	5.48	8.13	11.48	5.59	7.75	11.68	4.69
1977	8.06	11.42	5.49	8.13	11.68	5.48	8.51	11.10	6.39
1978	7.84	11.82	4.83	7.97	12.09	4.88	8.01	11.01	5.65
1979	7.63	11.12	5.05	7.85	11.59	5.10	7.26	8.22	6.30
1980	8.06	11.69	5.38	8.36	12.21	5.55	5.97	7.95	4.36
1981	8.49	12.83	5.30	8.57	13.03	5.32	10.00	15.77	5.82
1982	8.35	11.82	5.72	8.53	12.04	5.87	7.59	11.20	4.90
1983	8.94	13.25	5.66	9.24	13.78	5.80	8.81	13.53	5.52
1984	9.19	13.12	6.20	9.47	13.61	6.33	9.01	12.01	6.89
1985	8.94	13.12	5.76	9.22	13.59	5.92	8.63	11.69	6.22
1986	9.65	13.82	6.55	9.83	14.09	6.66	9.95	14.74	6.49
1987	9.90	14.07	6.73	10.08	14.35	6.87	11.06	15.60	7.51
1988	9.94	14.00	6.97	10.11	14.32	7.06	11.60	15.36	8.79
1989	10.31	14.48	7.16	10.59	15.03	7.23	10.78	15.06	7.82
1990	10.44	14.72	7.14	10.69	14.99	7.42	10.58	15.94	6.73
1991	10.65	15.06	7.18	10.81	15.24	7.34	12.24	18.19	7.79
1992	10.81	15.35	7.41	11.10	15.64	7.74	10.98	16.39	7.18
1993	10.76	14.70	7.63	10.85	14.75	7.74	12.77	17.29	9.44
1994	11.30	15.66	7.86	11.55	16.00	8.05	12.68	17.94	8.66
1995	11.12	15.48	7.67	11.13	15.40	7.72	14.21	21.51	9.19
1996	11.35	15.82	7.91	11.45	16.20	7.78	13.89	17.38	11.30
1997	10.96	15.13	7.64	11.01	15.12	7.71	13.69	19.65	9.37
1998	11.81	16.41	8.19	12.10	16.72	8.45	12.70	17.43	9.03
1999	11.45	15.98	7.82	11.62	16.22	7.88	13.79	19.08	9.95
2000	12.52	17.52	8.53	12.76	18.08	8.41	14.83	19.16	12.00
2001	12.61	17.58	8.62	12.81	17.79	8.78	15.58	22.94	10.31
2002	12.94	17.89	8.91	13.19	18.13	9.12	15.35	22.51	10.34
2003	13.56	18.31	9.71	13.92	18.52	10.14	14.63	21.70	9.42
2004	13.65	18.54	9.68	13.99	18.94	9.90	16.07	22.61	11.21
2005	14.06	19.39	9.72	14.28	19.63	9.86	17.06	25.16	11.44
2006	14.71	19.36	10.83	15.04	19.79	11.00	16.21	21.29	12.39
2007	15.66	21.50	10.81	15.84	21.55	11.02	19.13	27.15	13.22
2008	16.04	21.90	11.18	16.05	21.69	11.27	20.80	30.76	13.85
2009	15.45	21.41	10.44	15.62	21.54	10.48	19.52	29.19	12.65
2010	15.08	20.99	10.09	15.19	20.94	10.25	19.79	28.75	12.93
2011	15.70	21.62	10.69	16.01	21.97	10.83	18.78	26.05	13.33
2012	15.80	21.49	10.96	16.01	21.50	11.25	19.43	27.35	13.35
2013	15.79	22.27	10.29	15.89	22.17	10.42	19.65	28.98	12.48
2014	15.70	21.78	10.51	15.87	21.68	10.79	19.91	31.04	11.65

Additional information on the model used to delay-adjust SEER Incidence rates can be found at [\(https://surveillance.cancer.gov/delay/\)](https://surveillance.cancer.gov/delay/).

^a 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.

Table 11.5
Cancer of the Kidney and Renal Pelvis (Invasive)
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
1975-2014	11.96	16.76	8.15	12.04	16.85	8.19	14.27	20.42	9.73
1975	7.08	10.34	4.52	7.33	10.82	4.63	6.17	8.24	4.31
1976	7.97	11.20	5.48	8.13	11.48	5.59	7.75	11.68	4.69
1977	8.06	11.42	5.49	8.13	11.68	5.48	8.51	11.10	6.39
1978	7.84	11.82	4.83	7.97	12.09	4.88	8.01	11.01	5.65
1979	7.63	11.12	5.05	7.85	11.59	5.10	7.26	8.22	6.30
1980	8.06	11.69	5.38	8.36	12.21	5.55	5.97	7.95	4.36
1981	8.49	12.83	5.30	8.57	13.03	5.32	10.00	15.77	5.82
1982	8.35	11.82	5.72	8.53	12.04	5.87	7.59	11.20	4.90
1983	8.94	13.25	5.66	9.24	13.78	5.80	8.81	13.53	5.52
1984	9.19	13.12	6.20	9.47	13.61	6.33	9.01	12.01	6.89
1985	8.94	13.12	5.76	9.22	13.59	5.92	8.63	11.69	6.22
1986	9.65	13.82	6.55	9.83	14.09	6.66	9.95	14.74	6.49
1987	9.90	14.07	6.73	10.08	14.35	6.87	11.06	15.60	7.51
1988	9.94	14.00	6.97	10.11	14.32	7.06	11.60	15.36	8.79
1989	10.31	14.48	7.16	10.59	15.03	7.23	10.78	15.06	7.82
1990	10.44	14.72	7.14	10.69	14.99	7.42	10.58	15.94	6.73
1991	10.65	15.06	7.18	10.81	15.24	7.34	12.24	18.19	7.79
1992	10.81	15.35	7.41	11.10	15.64	7.74	10.98	16.39	7.18
1993	10.76	14.70	7.63	10.85	14.75	7.74	12.77	17.29	9.44
1994	11.30	15.66	7.86	11.55	16.00	8.05	12.68	17.94	8.66
1995	11.12	15.48	7.67	11.13	15.40	7.72	14.21	21.51	9.19
1996	11.35	15.82	7.91	11.45	16.20	7.78	13.89	17.38	11.30
1997	10.96	15.13	7.64	11.01	15.12	7.71	13.69	19.65	9.37
1998	11.81	16.41	8.19	12.10	16.72	8.45	12.70	17.43	9.03
1999	11.45	15.98	7.82	11.62	16.22	7.88	13.79	19.08	9.95
2000	12.52	17.52	8.53	12.76	18.08	8.41	14.83	19.16	12.00
2001	12.61	17.58	8.62	12.81	17.79	8.78	15.58	22.94	10.31
2002	12.94	17.89	8.91	13.19	18.13	9.12	15.35	22.51	10.34
2003	13.56	18.31	9.71	13.92	18.52	10.14	14.63	21.70	9.42
2004	13.65	18.54	9.68	13.99	18.94	9.90	16.07	22.61	11.21
2005	14.06	19.39	9.72	14.28	19.63	9.86	17.06	25.16	11.44
2006	14.68	19.33	10.82	15.01	19.76	10.98	16.17	21.23	12.36
2007	15.61	21.43	10.77	15.78	21.47	10.98	19.02	26.99	13.15
2008	15.96	21.80	11.13	15.96	21.57	11.20	20.62	30.49	13.74
2009	15.35	21.27	10.37	15.50	21.39	10.40	19.30	28.85	12.51
2010	14.96	20.82	10.01	15.05	20.74	10.16	19.50	28.33	12.74
2011	15.55	21.41	10.58	15.83	21.72	10.71	18.46	25.60	13.10
2012	15.58	21.20	10.81	15.76	21.16	11.07	19.02	26.77	13.07
2013	15.48	21.82	10.08	15.53	21.68	10.19	19.10	28.17	12.12
2014	15.16	21.03	10.15	15.26	20.84	10.38	19.10	29.77	11.18

^a 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 11.6
 Cancer of the Kidney and Renal Pelvis (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
1975-2014	4.03	5.87	2.66	4.11	5.98	2.71	3.81	5.64	2.55
1975	3.61	5.18	2.43	3.70	5.30	2.49	2.81	4.15	1.82
1976	3.61	5.23	2.41	3.69	5.35	2.45	2.92	4.24	1.92
1977	3.68	5.35	2.45	3.78	5.51	2.50	2.88	4.03	1.99
1978	3.69	5.43	2.41	3.76	5.52	2.46	3.17	4.83	1.93
1979	3.63	5.32	2.40	3.71	5.46	2.43	2.95	4.17	2.04
1980	3.68	5.46	2.38	3.77	5.61	2.44	2.96	4.19	2.01
1981	3.73	5.40	2.51	3.80	5.50	2.56	3.18	4.60	2.14
1982	3.85	5.68	2.54	3.92	5.80	2.56	3.40	4.83	2.37
1983	3.85	5.57	2.60	3.93	5.69	2.67	3.26	4.85	2.15
1984	3.90	5.75	2.57	3.96	5.88	2.60	3.45	4.86	2.45
1985	3.96	5.76	2.66	4.00	5.79	2.71	3.83	6.00	2.35
1986	4.05	5.83	2.78	4.11	5.94	2.82	3.68	5.34	2.52
1987	4.14	6.04	2.77	4.23	6.15	2.83	3.66	5.49	2.42
1988	4.03	5.86	2.71	4.09	5.93	2.76	3.78	5.82	2.41
1989	4.16	6.08	2.79	4.22	6.15	2.83	3.99	6.05	2.64
1990	4.19	6.16	2.77	4.23	6.22	2.79	4.20	6.35	2.76
1991	4.30	6.18	2.95	4.34	6.24	2.98	4.34	6.35	2.97
1992	4.29	6.24	2.88	4.37	6.33	2.94	3.97	5.94	2.61
1993	4.16	6.09	2.75	4.22	6.18	2.77	4.07	6.09	2.75
1994	4.27	6.20	2.89	4.32	6.25	2.92	4.24	6.40	2.81
1995	4.34	6.19	2.99	4.39	6.28	3.01	4.38	6.26	3.14
1996	4.27	6.19	2.84	4.33	6.29	2.88	4.15	5.93	2.93
1997	4.27	6.19	2.86	4.32	6.23	2.91	4.32	6.55	2.84
1998	4.26	6.19	2.81	4.34	6.27	2.88	4.01	6.28	2.46
1999	4.06	5.90	2.68	4.10	5.96	2.71	4.15	6.10	2.82
2000	4.22	6.14	2.79	4.30	6.24	2.84	4.13	6.28	2.74
2001	4.27	6.24	2.80	4.34	6.33	2.84	4.26	6.45	2.82
2002	4.23	6.16	2.77	4.33	6.30	2.81	4.06	5.86	2.85
2003	4.20	6.09	2.75	4.28	6.21	2.80	4.11	6.12	2.75
2004	4.13	5.94	2.74	4.24	6.08	2.80	3.99	5.87	2.72
2005	4.13	5.95	2.74	4.22	6.04	2.81	4.04	6.11	2.61
2006	4.00	5.76	2.66	4.09	5.86	2.73	3.88	5.90	2.52
2007	4.02	5.81	2.65	4.08	5.88	2.69	4.08	5.98	2.78
2008	3.99	5.83	2.56	4.07	5.93	2.60	3.87	5.73	2.58
2009	3.93	5.75	2.51	4.01	5.83	2.55	3.95	5.80	2.65
2010	3.92	5.71	2.52	4.04	5.86	2.58	3.65	5.24	2.53
2011	3.94	5.70	2.55	4.05	5.88	2.57	3.78	5.42	2.70
2012	3.83	5.64	2.39	3.95	5.79	2.47	3.61	5.59	2.24
2013	3.86	5.60	2.46	4.00	5.77	2.54	3.53	5.30	2.27
2014	3.75	5.59	2.28	3.85	5.70	2.34	3.71	5.87	2.24

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

Table 11.7
Cancer of the Kidney and Renal Pelvis (Invasive)

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, 2010-2014									
All ages	15.6	21.4	10.7	16.1	21.9	11.0	18.0	25.0	12.6
Under 65	8.5	11.3	5.9	8.7	11.4	6.1	10.3	14.2	6.9
65 and over	64.5	91.3	43.9	66.8	94.5	45.0	71.6	99.6	52.4
All ages (WHO world std) ^c	12.1	16.4	8.3	12.4	16.8	8.6	14.2	19.7	9.9
Age-Specific Rates, 2010-2014									
<1	1.6	1.2	1.9	1.2	0.9	1.6	2.2	-	-
1-4	2.0	1.9	2.1	2.0	2.0	2.1	2.4	2.3	2.5
5-9	0.6	0.5	0.7	0.6	0.5	0.6	1.0	-	1.4
10-14	0.1	0.1	0.2	0.1	-	0.2	-	-	-
15-19	0.2	0.3	0.2	0.2	0.2	0.2	-	-	-
20-24	0.5	0.4	0.5	0.5	0.4	0.5	0.6	0.8	-
25-29	1.3	1.2	1.3	1.3	1.3	1.3	1.5	1.6	1.4
30-34	2.8	3.3	2.4	3.1	3.4	2.7	2.5	3.2	1.9
35-39	5.3	6.5	4.1	5.6	6.5	4.5	5.8	8.2	3.7
40-44	9.4	12.1	6.8	9.9	12.4	7.3	10.9	15.0	7.1
45-49	14.9	19.8	10.1	15.4	20.3	10.4	17.6	23.2	12.6
50-54	22.2	29.9	14.8	22.9	30.3	15.4	26.1	37.0	16.2
55-59	32.3	44.3	21.0	32.8	44.7	21.3	40.7	56.9	26.7
60-64	43.6	60.5	28.1	44.2	60.8	28.6	55.6	80.3	35.5
65-69	59.8	82.9	39.2	60.9	83.9	40.0	76.3	108.2	51.5
70-74	67.7	94.9	44.9	70.4	98.4	46.3	75.9	107.5	53.0
75-79	71.4	100.4	48.9	74.2	104.8	49.9	77.1	104.3	59.4
80-84	66.8	95.7	47.1	69.8	99.3	49.2	65.2	94.3	49.1
85+	53.9	81.8	39.6	55.9	86.2	40.3	49.9	62.0	44.8
<u>U.S. Mortality</u>									
<u>Age at Death</u>									
Age-Adjusted Rates, 2010-2014									
All ages	3.9	5.6	2.4	4.0	5.8	2.5	3.7	5.5	2.4
Under 65	1.3	1.9	0.7	1.3	1.9	0.7	1.3	1.9	0.8
65 and over	21.6	31.7	14.3	22.3	32.5	14.7	19.8	30.0	13.4
All ages (WHO world std) ^c	2.7	3.9	1.6	2.7	4.0	1.7	2.6	3.9	1.6
Age-Specific Rates, 2010-2014									
<1	-	-	-	-	-	-	-	-	-
1-4	0.1	0.1	0.1	0.1	0.1	0.1	-	-	-
5-9	0.1	0.1	0.1	0.1	0.1	0.1	-	-	-
10-14	0.0	0.0	0.0	0.0	-	-	-	-	-
15-19	0.0	0.0	0.0	0.0	-	-	-	-	-
20-24	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.2
25-29	0.1	0.1	0.1	0.1	0.1	0.0	0.3	0.4	0.2
30-34	0.2	0.2	0.1	0.1	0.2	0.1	0.4	0.6	0.3
35-39	0.4	0.5	0.2	0.3	0.4	0.2	0.6	0.9	0.4
40-44	0.8	1.1	0.4	0.8	1.2	0.4	0.8	1.3	0.4
45-49	1.8	2.7	1.0	1.9	2.9	1.0	1.8	2.6	1.2
50-54	3.5	5.1	1.9	3.7	5.3	2.0	3.1	4.6	1.8
55-59	6.0	8.9	3.3	6.3	9.2	3.4	5.9	8.8	3.4
60-64	9.1	13.4	5.0	9.4	13.8	5.2	8.7	13.1	5.1
65-69	13.2	19.4	7.5	13.6	19.9	7.8	13.0	20.1	7.5
70-74	18.1	26.3	11.1	18.8	27.1	11.5	16.3	25.8	9.4
75-79	23.0	32.9	15.3	23.8	33.8	15.8	20.9	31.1	14.3
80-84	28.9	41.4	20.2	29.8	42.8	20.8	24.7	35.6	18.8
85+	36.9	56.1	27.2	37.6	57.4	27.6	34.3	52.3	27.0

^a SEER 18 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 11.8
Cancer of the Kidney and Renal Pelvis (Invasive)

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	-	-	-	37	36	39	38	38	37
1970-1973 ^a	-	-	-	46	44	50	44	40	49
1975-1977 ^b	50.1	50.2	49.8	49.8	50.1	49.3	48.8	47.9	50.4 ^g
1978-1980 ^b	52.9	52.7	53.3	52.6	52.8	52.1	56.9	51.9	62.8 ^g
1981-1983 ^b	50.0	51.0	48.3	49.9	51.2	47.7	50.6	50.2	51.2
1984-1986 ^b	54.5	55.0	53.7	54.7	55.4	53.5	52.6	49.2	57.5
1987-1989 ^b	56.7	57.0	56.1	57.3	58.0	56.1	54.6	52.7	57.0
1990-1992 ^b	60.2	60.5	59.6	60.7	61.2	59.8	57.0	55.2	59.1
1993-1995 ^b	61.5	61.7	61.1	62.0	62.8	60.7	57.4	54.0	62.1
1996-1998 ^b	62.5	62.9	61.9	62.0	62.6	61.1	66.9	68.1	64.5
1999-2001 ^b	64.9	63.4	67.3	64.9	63.7	66.9	63.9	59.2	69.2
2002-2006 ^b	71.3	71.2	71.5	71.6	71.7	71.6	68.1	67.4	69.2
2007-2013 ^b	75.1 ^f	74.1 ^f	76.7 ^f	74.8 ^f	73.9 ^f	76.4 ^f	76.3 ^f	75.6 ^f	77.2 ^f
5-Year Period Survival (Percent) ^{cd}									
2013	74.6	73.9	75.7	74.3	73.7	75.4	75.9	74.9	77.3
Stage Distribution (%) 2007-2013 ^{ce}									
All Stages									
Number of cases	75,311	46,967	28,344	61,355	38,454	22,901	8,632	5,118	3,514
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
Localized	65	64	68	64	63	67	71	69	73
Regional	16	17	15	17	18	15	12	12	11
Distant	16	17	14	16	17	14	14	16	12
Unstaged	3	3	3	3	3	3	3	3	3
5-Year Relative Survival (Percent), 2007-2013 ^c									
Age at Diagnosis:									
Ages <45	87.1	85.3	89.9	88.8	87.0	91.4	79.8	77.0	83.7
Ages 45-54	80.1	78.0	84.2	80.3	78.0	84.8	77.6	76.1	80.4
Ages 55-64	76.0	74.5	78.9	76.0	74.5	78.9	76.6	75.0	79.1
Ages 65-74	73.1	72.0	74.8	73.0	71.9	74.9	73.2	72.0	74.6
Ages 75+	59.0	60.3	57.5	59.2	60.6	57.5	56.5	54.9	57.8
Ages <65	79.4	77.5	83.0	79.7	77.8	83.4	77.6	75.8	80.6
Ages 65+	67.0	67.4	66.4	66.9	67.4	66.2	67.6	67.2	67.9
Stage ^e :									
All Stages	74.1	73.5	75.2	74.1	73.5	75.2	74.2	73.3	75.5
Localized	92.6	92.6	92.7	92.9	92.7	93.0	91.1	91.6	90.3
Regional	66.7	68.1	64.0	67.2	68.5	64.7	60.4	60.8	59.9
Distant	11.7	11.0	13.0	11.9	11.5	12.6	8.5	6.6	12.2
Unstaged	38.0	41.5	33.3	36.0	38.9	31.9	41.0	47.7 ^g	31.9 ^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 2014.

^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).

Based on follow-up of patients into 2014.

^d Period survival provides a 2013 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 2007-2013 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 11.9
Cancer of the Kidney and Renal Pelvis (Invasive)

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
Survival Time																							
1-year	68.9	70.4	72.9	76.4	76.9	77.1	76.4	77.9	77.9	79.7	81.3	79.7	81.7	85.0	83.9	85.0	86.3	85.2	86.5	86.4	85.8	87.2	87.6
2-year	60.3	61.7	65.0	69.2	69.7	70.4	70.1	71.1	71.7	73.9	73.9	74.7	76.1	79.7	80.1	81.7	82.5	81.2	82.2	81.4	80.9	83.3	
3-year	56.3	57.0	60.8	65.8	65.5	67.3	66.0	67.3	67.5	69.4	70.8	71.2	73.2	76.4	77.7	78.4	80.3	78.9	79.3	79.1	77.8		
4-year	53.0	53.9	57.8	63.2	63.3	64.2	63.6	64.5	64.5	67.4	68.1	69.0	71.1	73.4	76.0	75.8	77.6	76.3	77.4	76.8			
5-year	50.9	52.0	55.8	60.7	61.4	62.5	61.7	63.2	62.4	65.5	66.4	67.5	68.9	71.0	74.5	73.8	75.0	74.3	76.0				
6-year	49.3	49.7	53.8	59.1	59.4	60.5	59.7	61.2	60.4	63.9	64.9	65.4	67.9	69.1	72.9	72.3	73.5	73.1					
7-year	47.4	48.6	52.3	57.5	58.1	58.9	58.0	59.5	59.0	62.3	63.0	63.5	66.1	67.7	71.9	70.7	72.3						
8-year	46.2	47.4	51.1	56.1	56.9	58.5	55.9	57.9	57.3	60.1	61.8	61.8	64.7	65.6	70.9	69.3							
9-year	45.0	46.0	49.6	55.0	55.4	57.8	53.9	56.6	55.7	58.9	60.7	60.4	63.3	63.9	69.8								
10-year	44.0	44.9	48.0	53.2	54.3	55.9	53.0	55.5	53.8	56.9	59.3	59.3	62.1	62.3									
11-year	43.1	43.6	46.5	51.7	52.3	55.0	52.0	54.9	52.7	55.8	57.3	58.4	60.7										
12-year	42.2	42.7	45.3	50.6	50.7	53.5	51.2	54.3	51.8	55.1	56.1	57.6											
13-year	41.5	42.0	44.3	49.5	49.2	51.8	50.2	53.5	51.1	54.1	54.2												
14-year	40.5	41.4	43.0	48.2	48.2	50.3	49.5	52.1	49.7	52.7													
15-year	39.5	40.9	42.1	47.4	47.2	48.9	48.6	50.6	48.4														
16-year	39.2	40.4	41.0	46.8	46.9	48.1	47.2	49.5															
17-year	38.7	39.8	40.2	46.0	45.7	47.8	45.8																
18-year	37.6	39.3	39.3	44.9	44.5	47.4																	
19-year	36.7	38.3	38.5	44.2	43.9																		
20-year	36.1	37.3	37.9	43.3																			

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

Table 11.10
Cancer of the Kidney and Renal Pelvis (Invasive)

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
Survival Time																							
1-year	69.5	70.5	73.3	77.4	79.1	78.0	78.1	78.5	77.4	79.2	80.7	80.1	80.6	85.6	84.1	84.9	86.3	85.1	86.4	86.5	86.0	87.0	87.7
2-year	60.7	61.9	65.5	69.5	71.3	71.7	71.0	72.0	70.8	72.8	73.5	75.0	75.7	80.5	80.7	81.3	82.3	80.6	81.8	80.6	80.9	83.0	
3-year	56.4	57.4	61.4	66.2	67.1	68.0	66.7	67.9	66.8	67.9	70.3	70.8	73.4	77.2	77.9	77.8	79.6	78.1	78.8	78.0	77.8		
4-year	52.9	54.4	58.3	63.5	64.4	64.8	64.2	64.9	63.4	65.7	67.5	68.4	70.7	74.8	75.8	74.7	76.6	75.4	77.0	75.7			
5-year	51.0	52.4	56.2	60.8	62.4	63.1	61.7	63.7	61.4	62.8	65.6	67.2	69.1	71.9	74.1	72.8	73.6	73.1	75.7				
6-year	49.5	50.1	53.9	59.0	59.5	61.8	59.4	61.3	58.7	61.5	63.6	65.2	68.1	69.5	72.0	70.8	72.3	72.0					
7-year	47.3	48.9	52.1	57.4	58.5	60.1	57.5	59.4	57.6	59.7	60.9	63.3	66.2	67.7	70.7	68.9	71.4						
8-year	45.8	47.7	50.7	56.1	57.2	59.2	54.5	57.2	55.6	57.6	59.6	61.5	64.5	65.9	69.3	67.4							
9-year	44.8	46.3	48.8	55.2	56.0	58.7	52.5	56.4	53.6	55.9	58.7	60.4	63.1	63.9	68.6								
10-year	43.4	45.2	47.5	53.5	54.7	56.3	52.1	55.2	51.5	54.3	57.3	59.2	62.0	62.4									
11-year	42.4	44.0	45.5	51.9	53.3	55.5	50.5	54.5	50.2	53.2	55.6	58.2	60.5										
12-year	41.3	43.2	44.0	50.8	50.9	53.7	49.3	53.2	49.3	52.9	54.5	57.1											
13-year	40.6	42.5	42.8	49.6	49.2	52.2	48.6	52.9	49.0	52.0	53.2												
14-year	39.5	41.5	41.6	48.4	49.1	50.5	48.1	52.0	48.0	50.2													
15-year	38.4	41.2	40.9	47.7	47.6	48.6	46.5	50.1	46.8														
16-year	38.0	40.4	39.5	47.2	47.6	47.2	45.1	48.8															
17-year	37.5	40.0	38.7	46.3	46.3	47.0	43.0																
18-year	36.5	39.6	37.7	45.2	44.8	47.0																	
19-year	35.6	38.7	36.9	44.4	44.0																		
20-year	34.7	37.4	36.3	43.5																			

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

Table 11.11
Cancer of the Kidney and Renal Pelvis (Invasive)

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
Survival Time																							
1-year	67.8	70.3	72.3	74.7	73.4	75.7	73.8	76.8	78.6	80.6	82.4	79.0	83.5	84.2	83.6	85.3	86.4	85.4	86.7	86.3	85.5	87.5	87.5
2-year	59.6	61.5	64.2	68.7	67.2	68.5	68.7	69.6	73.2	75.6	74.6	74.2	76.6	78.4	79.2	82.3	82.7	82.2	82.9	82.8	80.8	83.8	
3-year	56.1	56.4	59.8	65.1	62.9	66.1	64.9	66.5	68.7	71.7	71.7	71.9	73.1	75.2	77.2	79.3	81.4	80.3	80.1	80.8	77.8		
4-year	53.0	53.2	57.1	62.7	61.5	63.3	62.7	63.7	66.1	70.2	69.0	70.1	71.7	71.3	76.2	77.4	79.4	77.7	78.0	78.8			
5-year	50.6	51.3	55.0	60.5	59.8	61.6	61.4	62.4	64.0	69.7	67.6	68.0	68.6	69.8	75.0	75.2	77.4	76.3	76.6				
6-year	49.0	49.0	53.7	59.2	58.9	58.5	60.1	61.0	63.0	67.7	66.8	65.8	67.4	68.5	74.5	74.4	75.5	74.7					
7-year	47.7	48.0	52.5	57.5	57.3	57.1	58.6	59.5	61.1	66.6	66.2	63.8	66.0	67.6	73.8	73.5	73.7						
8-year	46.9	46.8	51.5	56.1	56.3	57.1	57.7	58.8	59.8	64.3	65.4	62.2	65.0	65.2	73.4	72.1							
9-year	45.2	45.5	50.8	54.8	54.1	56.4	56.0	57.0	58.8	63.7	63.7	60.2	63.7	63.7	71.6								
10-year	44.9	44.3	48.7	52.9	53.7	55.2	54.3	55.9	57.5	61.1	62.5	59.3	62.2	62.1									
11-year	44.2	42.9	47.9	51.4	50.8	54.1	53.9	55.5	56.6	60.1	60.1	58.6	60.9										
12-year	43.6	42.0	47.2	50.3	50.2	53.0	53.9	55.5	55.8	58.6	58.6	58.3											
13-year	43.0	41.1	46.5	49.2	49.0	51.0	52.5	54.1	54.4	57.4	55.9												
14-year	42.1	40.7	45.1	47.8	46.8	49.6	51.5	52.3	52.4	56.6													
15-year	41.2	40.3	43.9	47.0	46.1	49.2	51.5	51.2	50.9														
16-year	41.1	40.3	43.3	46.1	45.0	49.0	50.3	50.2															
17-year	40.4	39.4	42.2	45.5	44.6	48.8	50.0																
18-year	39.3	38.7	41.6	44.6	44.1	47.3																	
19-year	38.4	37.7	40.8	43.8	43.5																		
20-year	38.2	37.1	40.2	42.9																			

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

Table 11.12
Cancer of the Kidney and Renal Pelvis (Invasive)

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, 2012-2014 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	0.01	0.01	0.02	1.63	0.47	Asian/ Pacific Islander	0	0.01	0.01	0.01	1.10	0.33
	10	0.00	0.01	0.05	1.64	0.47		10	0.00	0.01	0.03	1.10	0.33
	20	0.01	0.05	0.17	1.64	0.47		20	0.00	0.02	0.09	1.10	0.33
	30	0.04	0.16	0.41	1.65	0.48		30	0.02	0.08	0.22	1.10	0.33
	40	0.12	0.37	0.81	1.63	0.48		40	0.06	0.20	0.44	1.08	0.33
	50	0.26	0.70	1.20	1.54	0.48		50	0.14	0.39	0.69	1.04	0.33
	60	0.47	0.99	1.29	1.36	0.46		60	0.26	0.57	0.80	0.93	0.32
	70	0.59	0.93	-	1.01	0.41		70	0.33	0.59	-	0.72	0.29
80	0.45	-	-	0.56	0.31	80	0.30	-	-	0.46	0.24		
White	0	0.01	0.01	0.02	1.69	0.48	American Indian/ Alaska Native ^a	0	0.02	0.02	0.03	1.58	0.64
	10	0.00	0.01	0.06	1.69	0.49		10	0.00	0.01	0.06	1.58	0.65
	20	0.01	0.05	0.18	1.70	0.49		20	0.01	0.06	0.17	1.59	0.66
	30	0.05	0.17	0.43	1.70	0.49		30	0.05	0.16	0.44	1.60	0.67
	40	0.13	0.39	0.83	1.68	0.50		40	0.11	0.40	0.86	1.59	0.68
	50	0.27	0.72	1.24	1.59	0.50		50	0.30	0.78	1.26	1.54	0.69
	60	0.48	1.03	1.34	1.40	0.48		60	0.52	1.03	1.20	1.34	0.68
	70	0.62	0.97	-	1.04	0.42		70	0.58	0.78	-	0.93	0.60
80	0.47	-	-	0.57	0.32	80	0.26	-	-	0.47	0.43		
Black	0	0.02	0.02	0.03	1.59	0.39	Hispanic ^b	0	0.01	0.01	0.02	1.80	0.51
	10	0.00	0.01	0.05	1.61	0.40		10	0.00	0.01	0.05	1.81	0.51
	20	0.01	0.05	0.18	1.61	0.40		20	0.01	0.05	0.16	1.81	0.51
	30	0.04	0.17	0.45	1.62	0.40		30	0.04	0.15	0.41	1.81	0.52
	40	0.14	0.42	0.90	1.61	0.41		40	0.11	0.37	0.85	1.79	0.52
	50	0.30	0.79	1.26	1.53	0.41		50	0.26	0.75	1.29	1.71	0.51
	60	0.54	1.05	1.29	1.35	0.40		60	0.51	1.07	1.41	1.51	0.49
	70	0.61	0.90	-	0.98	0.36		70	0.62	1.00	-	1.11	0.43
80	0.42	-	-	0.53	0.29	80	0.47	-	-	0.61	0.33		

Devcan 6.7.5, April 2017, National Cancer Institute (<https://surveillance.cancer.gov/devcan/>).

Source: Incidence data are from the 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). 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 CHSDA (Contract Health Service Delivery Area) 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 11.13
Cancer of the Kidney and Renal Pelvis (Invasive)

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, 2012-2014 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	0.01	0.01	0.02	2.09	0.62	Asian/ Pacific Islander	0	0.01	0.01	0.01	1.44	0.47
	10	0.00	0.01	0.06	2.10	0.62		10	0.00	0.00	0.03	1.45	0.47
	20	0.01	0.06	0.21	2.11	0.62		20	0.00	0.03	0.11	1.45	0.47
	30	0.05	0.20	0.54	2.13	0.63		30	0.03	0.11	0.30	1.45	0.48
	40	0.16	0.50	1.07	2.11	0.64		40	0.08	0.27	0.63	1.44	0.48
	50	0.35	0.95	1.59	2.02	0.64		50	0.19	0.55	0.95	1.38	0.47
	60	0.64	1.34	1.72	1.80	0.62		60	0.37	0.78	1.10	1.23	0.46
	70	0.81	1.26	-	1.35	0.54		70	0.45	0.79	-	0.93	0.43
80	0.63	-	-	0.76	0.42	80	0.43	-	-	0.61	0.36		
White	0	0.01	0.01	0.02	2.15	0.63	American Indian/ Alaska Native ^a	0	0.01	0.01	0.02	1.95	0.76
	10	0.00	0.01	0.06	2.17	0.64		10	0.00	0.01	0.06	1.97	0.77
	20	0.01	0.06	0.22	2.17	0.64		20	0.01	0.06	0.19	1.98	0.78
	30	0.05	0.21	0.55	2.19	0.65		30	0.05	0.18	0.46	2.01	0.80
	40	0.16	0.51	1.10	2.17	0.66		40	0.14	0.43	1.03	2.02	0.82
	50	0.36	0.97	1.64	2.08	0.66		50	0.30	0.94	1.60	1.99	0.84
	60	0.65	1.38	1.77	1.85	0.63		60	0.70	1.42	1.76	1.84	0.81
	70	0.85	1.30	-	1.39	0.56		70	0.86	1.26	-	1.35	0.69
80	0.66	-	-	0.78	0.43	80	0.58	-	-	0.71	0.55		
Black	0	0.01	0.02	0.03	1.98	0.52	Hispanic ^b	0	0.01	0.01	0.02	2.24	0.64
	10	0.00	0.01	0.06	2.01	0.53		10	0.00	0.01	0.05	2.26	0.64
	20	0.01	0.06	0.23	2.02	0.53		20	0.01	0.05	0.18	2.27	0.65
	30	0.05	0.23	0.61	2.04	0.54		30	0.04	0.17	0.50	2.28	0.65
	40	0.18	0.57	1.22	2.05	0.54		40	0.13	0.46	1.06	2.26	0.66
	50	0.41	1.09	1.66	1.95	0.55		50	0.34	0.95	1.66	2.18	0.65
	60	0.76	1.40	1.67	1.73	0.54		60	0.65	1.40	1.82	1.96	0.62
	70	0.82	1.16	-	1.24	0.49		70	0.85	1.32	-	1.47	0.54
80	0.55	-	-	0.68	0.40	80	0.62	-	-	0.82	0.40		

Devcan 6.7.5, April 2017, National Cancer Institute (<https://surveillance.cancer.gov/devcan/>).

Source: Incidence data are from the 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). 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 CHSDA (Contract Health Service Delivery Area) 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 11.14
Cancer of the Kidney and Renal Pelvis (Invasive)

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, 2012-2014 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	0.01	0.02	0.02	1.20	0.33	Asian/ Pacific Islander	0	0.01	0.01	0.02	0.81	0.21
	10	0.00	0.01	0.04	1.20	0.34		10	0.00	0.01	0.02	0.80	0.21
	20	0.01	0.04	0.13	1.20	0.34		20	0.00	0.02	0.06	0.80	0.21
	30	0.03	0.12	0.29	1.20	0.34		30	0.01	0.06	0.14	0.80	0.22
	40	0.09	0.26	0.55	1.18	0.34		40	0.04	0.13	0.28	0.79	0.21
	50	0.17	0.47	0.83	1.11	0.34		50	0.09	0.24	0.47	0.75	0.21
	60	0.31	0.68	0.92	0.98	0.33		60	0.16	0.39	0.57	0.68	0.20
	70	0.41	0.67	-	0.74	0.30		70	0.24	0.43	-	0.55	0.19
80	0.33	-	-	0.42	0.24	80	0.21	-	-	0.35	0.16		
White	0	0.01	0.01	0.02	1.24	0.34	American Indian/ Alaska Native ^a	0	0.02	0.02	0.03	1.23	0.53
	10	0.00	0.01	0.05	1.24	0.35		10	0.00	0.01	0.06	1.22	0.53
	20	0.01	0.05	0.14	1.24	0.35		20	0.01	0.06	0.15	1.22	0.53
	30	0.04	0.13	0.30	1.23	0.35		30	0.05	0.14	0.42	1.22	0.54
	40	0.09	0.26	0.57	1.20	0.35		40	0.09	0.37	0.71	1.19	0.55
	50	0.18	0.48	0.85	1.14	0.35		50	0.29	0.64	0.94	1.14	0.55
	60	0.32	0.70	0.94	1.00	0.34		60	0.37	0.69	0.72	0.89	0.55
	70	0.42	0.68	-	0.75	0.31		70	0.36	0.39	-	0.59	0.53
80	0.34	-	-	0.43	0.24	80	0.04	-	-	0.29	0.35		
Black	0	0.02	0.02	0.03	1.25	0.29	Hispanic ^b	0	0.01	0.01	0.02	1.42	0.40
	10	0.00	0.01	0.04	1.25	0.29		10	0.00	0.01	0.05	1.42	0.40
	20	0.01	0.03	0.13	1.25	0.29		20	0.01	0.05	0.13	1.42	0.40
	30	0.03	0.13	0.31	1.25	0.29		30	0.04	0.13	0.32	1.41	0.40
	40	0.10	0.29	0.62	1.24	0.29		40	0.09	0.28	0.64	1.38	0.40
	50	0.20	0.54	0.91	1.18	0.30		50	0.19	0.56	0.95	1.31	0.40
	60	0.37	0.77	0.99	1.05	0.29		60	0.38	0.78	1.07	1.16	0.39
	70	0.46	0.71	-	0.79	0.27		70	0.44	0.74	-	0.84	0.35
80	0.35	-	-	0.45	0.24	80	0.37	-	-	0.48	0.29		

Devcan 6.7.5, April 2017, National Cancer Institute (<https://surveillance.cancer.gov/devcan/>).

Source: Incidence data are from the 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). 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 CHSDA (Contract Health Service Delivery Area) 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 11.15
Cancer of the Kidney and Renal Pelvis (Invasive)

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

SEER Incidence	SEER 18 Areas ^b			SEER 13 Areas ^b			SEER 9 Areas ^b		
	Rate 2010-2014			Trend 2005-2014 ^c			Trend 2005-2014 ^d		
	Rate per 100,000 persons			AAPC (%)			AAPC (%)		
RACE/ETHNICITY	Total	Males	Females	Total	Males	Females	Total	Males	Females
All Races	15.6	21.4	10.7	0.7*	0.8*	0.3	0.7*	1.1	0.1
White	16.1	21.9	11.0	0.7*	0.7*	0.3	0.6*	0.8*	0.0
White Hispanic ^e	16.1	21.1	12.0	0.6	0.2	0.6	-	-	-
White Non-Hispanic ^e	16.2	22.2	10.9	0.7*	0.9*	0.0	-	-	-
Black	18.0	25.0	12.6	0.9	2.4*	0.1	1.1	2.8*	-0.1
Asian/Pacific Islander	8.2	11.7	5.5	2.4*	2.3*	2.6*	-	-	-
Amer Ind/Alaska Nat ^f	17.2	22.9	12.7	0.9	1.0	0.7	-	-	-
Hispanic ^e	15.4	20.2	11.5	0.6	0.2	0.6	-	-	-
<u>U.S. Mortality^g</u>									
	Rate 2010-2014			Trend 2005-2014 ^h					
	Rate per 100,000 persons			AAPC (%)					
RACE/ETHNICITY	Total	Males	Females	Total	Males	Females			
All Races	3.9	5.6	2.4	-0.9*	-0.8*	-1.6*			
White	4.0	5.8	2.5	-0.8*	-0.7*	-1.6*			
White Hispanic ^e	3.7	5.2	2.5	0.0	-0.2	0.0			
White Non-Hispanic ^e	4.0	5.8	2.5	-0.8*	-0.5*	-1.6*			
Black	3.7	5.5	2.4	-0.9*	-0.6*	-2.3*			
Asian/Pacific Islander	1.8	2.7	1.1	0.0	0.2	-0.4			
Amer Ind/Alaska Nat									
Total U.S.	4.1	5.5	3.0	-1.0*	-1.2*	-1.2			
CHSDA Counties	6.3	8.9	4.2	-0.1	-0.3	-0.4			
Non-CHSDA Counties	1.7	2.0	1.5	-1.9*	-1.6	-2.1			
Hispanic ^e	3.5	4.9	2.3	-1.0*	-0.3	-0.1			

The AAPC is the Average Annual Percent Change over the time interval. The AAPCs are calculated by the Joinpoint Regression Program Version 4.3.0.0, April 2016, 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 18 areas comprise the SEER 13 areas plus California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, and Georgia excluding ATL/RG.

^c The 2005-2014 AAPC estimates are based on a Joinpoint analysis with up to 4 Joinpoints over diagnosis years 1992-2014.

^d The 2005-2014 AAPC estimates are based on a Joinpoint analysis with up to 5 Joinpoints over diagnosis years 1975-2014.

^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 2005-2014 Hispanic and Non-Hispanic mortality trends exclude deaths from New Hampshire and Oklahoma.

^f 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 2005-2014 mortality AAPCs are based on a Joinpoint analysis using years of death 1992-2014.

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

Table 11.16
Cancer of the Kidney and Renal Pelvis (Invasive)

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, 2010-2014</u>									
California	14.13	19.50	9.53	15.10	20.67	10.25	17.02	23.23	11.82
Greater Bay Area	13.08	18.06	8.74	14.34	19.59	9.63	18.54	26.17	12.20
San Francisco-Oakland	12.96	18.27	8.41	13.94	19.49	8.99	19.29	27.57	12.64
San Jose-Monterey	13.30	17.67	9.39	15.05	19.78	10.75	13.38	17.83	8.74
Los Angeles	13.29	18.65	8.87	14.25	19.79	9.55	15.90	22.37	10.90
Greater California	14.89	20.40	10.13	15.66	21.34	10.71	17.52	22.69	12.72
Connecticut	15.42	21.72	10.18	15.32	21.56	10.09	14.24	20.34	9.45
Detroit	18.65	25.81	12.82	17.82	24.07	12.59	22.57	33.84	14.48
Georgia	15.45	21.41	10.63	15.41	21.29	10.42	16.46	22.96	11.81
Atlanta	14.43	20.90	9.28	13.57	19.49	8.56	17.07	25.60	11.14
Rural Georgia	15.22	22.00	9.80	17.40	24.52	11.42	11.93	17.94	-
Greater Georgia	16.04	21.73	11.41	16.14	22.03	11.15	16.21	21.24	12.60
Hawaii	13.26	18.35	8.80	14.82	20.01	9.14	-	-	-
Iowa	17.91	24.45	12.24	17.78	24.30	12.10	27.96	31.56	25.18
Kentucky	19.83	26.25	14.36	19.71	26.05	14.33	23.80	31.64	16.86
Louisiana	21.58	28.42	15.81	22.34	29.23	16.34	20.68	27.50	15.44
New Jersey	15.52	21.63	10.45	15.99	22.29	10.68	16.00	22.69	11.12
New Mexico	14.20	18.45	10.45	13.58	17.51	10.06	11.37	14.93	-
Seattle-Puget Sound	15.76	21.86	10.49	16.17	22.20	10.90	19.97	27.19	12.22
Utah	13.74	18.52	9.53	13.74	18.51	9.52	19.51	-	-
SEER 9 Areas ^b	15.34	21.26	10.32	15.48	21.23	10.49	19.03	27.77	12.41
SEER 13 Areas ^b	14.77	20.47	9.95	15.19	20.84	10.30	18.11	26.17	11.94
SEER 18 Areas ^b	15.60	21.39	10.70	16.08	21.92	11.04	18.02	24.97	12.65

^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.

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

Table 11.17
Cancer of the Kidney and Renal Pelvis (Invasive)

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, 2010-2014</u>									
California	3.48	5.10	2.18	3.77	5.48	2.36	3.48	5.33	2.07
Greater Bay Area	3.03	4.51	1.85	3.41	4.98	2.10	3.21	4.78	2.04
San Francisco-Oakland	2.92	4.43	1.74	3.28	4.94	1.91	3.13	4.70	2.02
San Jose-Monterey	3.24	4.65	2.07	3.64	5.04	2.44	-	-	-
Los Angeles	3.18	4.69	1.99	3.45	5.06	2.14	3.25	5.19	1.91
Greater California	3.78	5.48	2.39	3.99	5.79	2.52	3.85	5.66	2.29
Connecticut	3.00	4.57	1.81	3.07	4.62	1.87	2.71	4.34	-
Detroit	3.89	5.76	2.46	3.92	5.78	2.46	4.06	6.25	2.58
Georgia	3.56	5.45	2.15	3.72	5.61	2.24	3.27	5.21	2.01
Atlanta	3.08	4.62	1.94	3.15	4.45	2.09	3.23	5.67	1.81
Rural Georgia	3.88	5.90	-	4.23	6.59	-	-	-	-
Greater Georgia	3.76	5.79	2.23	3.90	6.00	2.27	3.31	5.03	2.13
Hawaii	2.74	4.16	1.58	2.55	3.66	1.42	-	-	-
Iowa	4.64	6.92	2.81	4.64	6.91	2.82	-	-	-
Kentucky	4.70	6.80	3.04	4.69	6.81	2.99	5.62	7.85	4.13
Louisiana	5.01	7.14	3.32	5.15	7.27	3.41	4.86	7.10	3.20
New Jersey	3.27	4.90	2.03	3.44	5.18	2.09	3.09	4.36	2.24
New Mexico	4.26	5.79	2.96	4.01	5.36	2.85	-	-	-
Seattle-Puget Sound	3.75	5.48	2.28	3.91	5.64	2.43	4.38	5.56	-
Utah	3.62	5.23	2.25	3.67	5.31	2.25	-	-	-
SEER 9 Areas ^b	3.56	5.27	2.20	3.71	5.43	2.31	3.53	5.49	2.18
SEER 13 Areas ^b	3.47	5.12	2.16	3.67	5.34	2.29	3.48	5.41	2.13
SEER 18 Areas ^b	3.69	5.42	2.31	3.87	5.65	2.42	3.70	5.57	2.37
Total U.S.	3.86	5.65	2.44	3.98	5.80	2.50	3.66	5.49	2.39

^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.

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

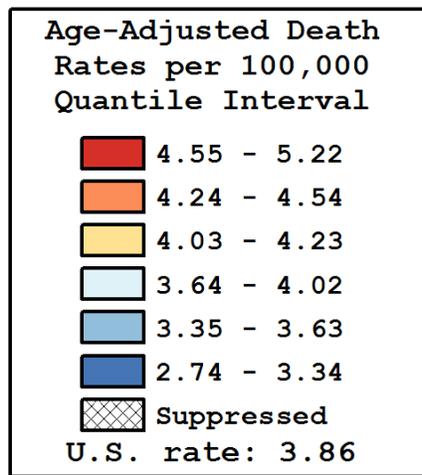
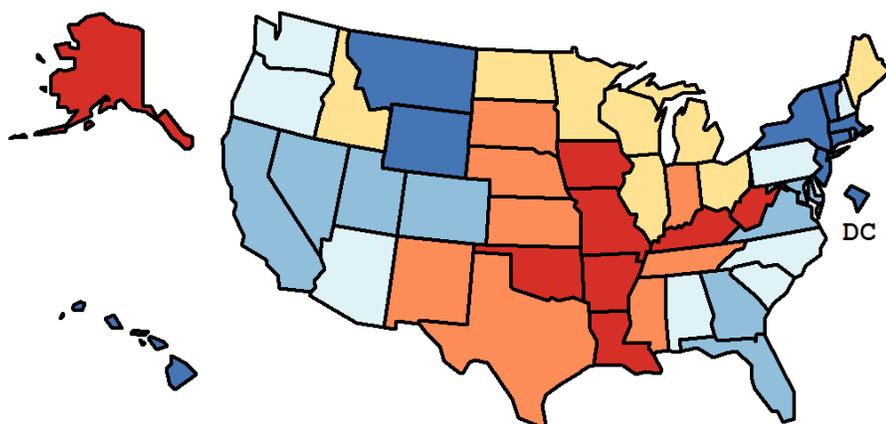
Table 11.18
Cancer of the Kidney and Renal Pelvis (Invasive)

Age-Adjusted Cancer Death^a Rates By State, All Races, 2010-2014

Males and Females

State	Rate	SE	Rank(CI) ^d	PD
TOTAL U.S.	3.86	0.01		
High Five States				
Oklahoma	5.22	0.16	01(01,05)	35.25 ^c
Louisiana	5.01	0.14	02(01,08)	29.93 ^c
Arkansas	4.83	0.17	03(01,15)	25.08 ^c
Kentucky	4.70	0.14	04(01,17)	21.81 ^c
West Virginia	4.70	0.20	05(01,22)	21.68 ^c
Low Five States				
Wyoming	3.18	0.32	47(17,51)	-17.54 ^c
New York	3.14	0.05	48(43,50)	-18.67 ^c
Connecticut	3.00	0.12	49(41,51)	-22.20 ^c
D.C.	2.78	0.30	50(32,51)	-27.94 ^c
Hawaii	2.74	0.18	51(44,51)	-29.00 ^c

State	Rate	SE	Rank(CI) ^d	PD	State	Rate	SE	Rank(CI) ^d	PD
Alabama	4.02	0.12	25(12,35)	4.12	Montana	3.34	0.23	43(21,51)	-13.39
Alaska	4.56	0.44	08(01,43)	18.08 ^c	Nebraska	4.42	0.21	14(02,31)	14.43
Arizona	3.67	0.10	33(25,43)	-4.82	Nevada	3.52	0.16	38(24,49)	-8.70
Arkansas	4.83	0.17	03(01,15)	25.08 ^c	New Hampshire	3.82	0.22	32(10,47)	-1.14
California	3.48	0.04	39(34,44)	-9.71	New Jersey	3.27	0.08	46(37,49)	-15.22 ^c
Colorado	3.38	0.12	41(32,49)	-12.35	New Mexico	4.26	0.19	16(03,34)	10.48
Connecticut	3.00	0.12	49(41,51)	-22.20 ^c	New York	3.14	0.05	48(43,50)	-18.67 ^c
Delaware	3.94	0.27	27(04,47)	2.12	North Carolina	3.91	0.09	28(18,35)	1.36
D.C.	2.78	0.30	50(32,51)	-27.94 ^c	North Dakota	4.11	0.32	21(01,47)	6.50
Florida	3.38	0.05	42(37,47)	-12.52	Ohio	4.08	0.08	24(14,31)	5.59
Georgia	3.56	0.09	36(29,45)	-7.65	Oklahoma	5.22	0.16	01(01,05)	35.25 ^c
Hawaii	2.74	0.18	51(44,51)	-29.00 ^c	Oregon	3.86	0.13	30(16,40)	-0.11
Idaho	4.14	0.22	19(03,40)	7.22	Pennsylvania	3.85	0.07	31(22,36)	-0.22
Illinois	4.12	0.08	20(12,29)	6.84	Rhode Island	3.53	0.23	37(16,50)	-8.63
Indiana	4.46	0.11	12(03,22)	15.45 ^c	South Carolina	3.99	0.12	26(13,36)	3.44
Iowa	4.64	0.16	06(02,20)	20.13 ^c	South Dakota	4.46	0.30	11(01,36)	15.47 ^c
Kansas	4.54	0.17	09(02,25)	17.53 ^c	Tennessee	4.28	0.11	15(07,27)	10.78
Kentucky	4.70	0.14	04(01,17)	21.81 ^c	Texas	4.47	0.06	10(05,17)	15.71 ^c
Louisiana	5.01	0.14	02(01,08)	29.93 ^c	Utah	3.62	0.18	35(19,48)	-6.08
Maine	4.08	0.22	23(05,40)	5.77	Vermont	3.28	0.29	44(19,51)	-15.07 ^c
Maryland	3.48	0.11	40(30,47)	-9.80	Virginia	3.63	0.09	34(27,43)	-5.96
Massachusetts	3.28	0.09	45(36,49)	-15.07 ^c	Washington	3.90	0.10	29(17,37)	1.09
Michigan	4.10	0.08	22(13,30)	6.31	West Virginia	4.70	0.20	05(01,22)	21.68 ^c
Minnesota	4.23	0.12	17(08,29)	9.71	Wisconsin	4.23	0.11	18(08,29)	9.54
Mississippi	4.45	0.17	13(03,27)	15.36 ^c	Wyoming	3.18	0.32	47(17,51)	-17.54 ^c
Missouri	4.59	0.11	07(02,18)	18.90 ^c					



^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.

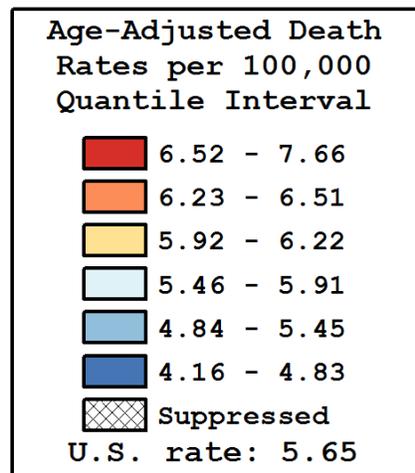
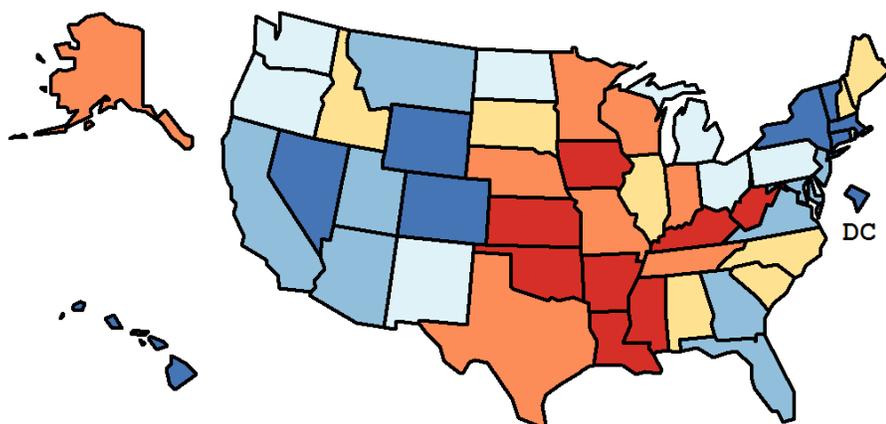
Table 11.19
Cancer of the Kidney and Renal Pelvis (Invasive)

Age-Adjusted Cancer Death^a Rates By State, All Races, 2010-2014

Males

State	Rate	SE	Rank(CI) ^d	PD
TOTAL U.S.	5.65	0.03		
High Five States				
Oklahoma	7.66	0.29	01(01,07)	35.69 ^c
Louisiana	7.14	0.26	02(01,15)	26.43 ^c
Arkansas	7.11	0.31	03(01,18)	25.91 ^c
Iowa	6.92	0.29	04(01,20)	22.50 ^c
Kentucky	6.80	0.26	05(01,22)	20.40 ^c
Low Five States				
New York	4.71	0.10	47(40,50)	-16.64 ^c
Connecticut	4.57	0.22	48(36,51)	-19.17 ^c
D.C.	4.39	0.60	49(14,51)	-22.30 ^c
Wyoming	4.24	0.54	50(23,51)	-24.97 ^c
Hawaii	4.16	0.33	51(38,51)	-26.32 ^c

State	Rate	SE	Rank(CI) ^d	PD	State	Rate	SE	Rank(CI) ^d	PD
Alabama	6.03	0.23	19(06,37)	6.70	Montana	5.22	0.42	39(10,51)	-7.49
Alaska	6.51	0.80	09(01,50)	15.30 ^c	Nebraska	6.45	0.37	11(01,36)	14.20
Arizona	5.36	0.18	37(23,45)	-5.10	Nevada	4.82	0.28	45(30,51)	-14.65
Arkansas	7.11	0.31	03(01,18)	25.91 ^c	New Hampshire	5.93	0.41	24(02,45)	5.04
California	5.10	0.08	40(34,45)	-9.75	New Jersey	4.90	0.15	42(35,50)	-13.29
Colorado	4.77	0.21	46(34,51)	-15.54 ^c	New Mexico	5.79	0.34	27(06,46)	2.52
Connecticut	4.57	0.22	48(36,51)	-19.17 ^c	New York	4.71	0.10	47(40,50)	-16.64 ^c
Delaware	5.73	0.50	28(02,50)	1.50	North Carolina	6.02	0.17	20(10,32)	6.66
D.C.	4.39	0.60	49(14,51)	-22.30 ^c	North Dakota	5.68	0.57	31(02,50)	0.64
Florida	4.94	0.09	41(36,48)	-12.50	Ohio	5.70	0.14	30(18,38)	0.88
Georgia	5.45	0.17	35(21,43)	-3.49	Oklahoma	7.66	0.29	01(01,07)	35.69 ^c
Hawaii	4.16	0.33	51(38,51)	-26.32 ^c	Oregon	5.65	0.24	32(13,42)	-0.03
Idaho	6.01	0.40	21(02,44)	6.34	Pennsylvania	5.46	0.13	33(24,41)	-3.31
Illinois	5.94	0.14	23(13,33)	5.19	Rhode Island	5.91	0.47	25(02,48)	4.66
Indiana	6.43	0.21	13(03,26)	13.84	South Carolina	6.22	0.24	17(04,32)	10.12
Iowa	6.92	0.29	04(01,20)	22.50 ^c	South Dakota	5.96	0.52	22(02,49)	5.57
Kansas	6.66	0.31	07(01,27)	18.01 ^c	Tennessee	6.43	0.21	12(03,26)	13.86
Kentucky	6.80	0.26	05(01,22)	20.40 ^c	Texas	6.43	0.11	14(05,21)	13.79
Louisiana	7.14	0.26	02(01,15)	26.43 ^c	Utah	5.23	0.32	38(17,50)	-7.42
Maine	6.13	0.40	18(02,42)	8.50	Vermont	4.83	0.54	43(09,51)	-14.43
Maryland	5.45	0.21	34(18,44)	-3.44	Virginia	5.39	0.17	36(21,44)	-4.58
Massachusetts	4.83	0.17	44(35,50)	-14.54	Washington	5.70	0.19	29(15,39)	0.98
Michigan	5.86	0.15	26(14,35)	3.79	West Virginia	6.60	0.36	08(01,31)	16.94 ^c
Minnesota	6.23	0.22	16(05,32)	10.26	Wisconsin	6.24	0.21	15(05,31)	10.46
Mississippi	6.69	0.32	06(01,28)	18.54 ^c	Wyoming	4.24	0.54	50(23,51)	-24.97 ^c
Missouri	6.48	0.21	10(03,25)	14.79					



^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.

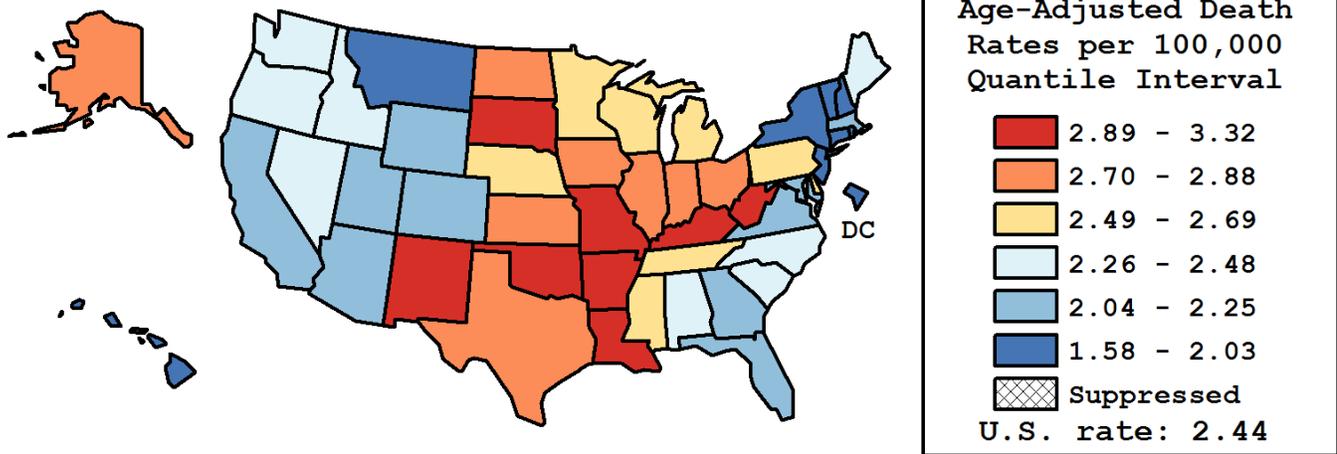
Table 11.20
Cancer of the Kidney And Renal Pelvis (Invasive)

Age-Adjusted Cancer Death^a Rates By State, All Races, 2010-2014

Females

State	Rate	SE	Rank(CI) ^d	PD
TOTAL U.S.	2.44	0.02		
High Five States				
Louisiana	3.32	0.16	01(01,12)	36.36 ^c
Oklahoma	3.22	0.17	02(01,17)	32.17 ^c
West Virginia	3.20	0.22	03(01,23)	31.27 ^c
South Dakota	3.14	0.34	04(01,39)	28.67 ^c
Missouri	3.08	0.13	05(01,17)	26.57 ^c
Low Five States				
Rhode Island	1.84	0.23	47(24,51)	-24.62 ^c
Connecticut	1.81	0.12	48(35,51)	-25.74 ^c
Montana	1.65	0.23	49(28,51)	-32.24 ^c
D.C.	1.63	0.30	50(20,51)	-33.10 ^c
Hawaii	1.58	0.19	51(38,51)	-34.97 ^c

State	Rate	SE	Rank(CI) ^d	PD	State	Rate	SE	Rank(CI) ^d	PD
Alabama	2.48	0.13	25(11,40)	1.82	Montana	1.65	0.23	49(28,51)	-32.24 ^c
Alaska	2.87	0.47	10(01,50)	17.91 ^c	Nebraska	2.65	0.21	19(02,42)	8.86
Arizona	2.22	0.11	37(22,47)	-8.80	Nevada	2.37	0.18	30(08,48)	-2.88
Arkansas	3.00	0.18	07(01,27)	23.27 ^c	New Hampshire	2.02	0.22	44(16,51)	-17.08 ^c
California	2.18	0.05	38(29,44)	-10.40	New Jersey	2.03	0.08	43(32,49)	-16.70 ^c
Colorado	2.24	0.13	36(19,48)	-8.04	New Mexico	2.96	0.22	08(01,32)	21.31 ^c
Connecticut	1.81	0.12	48(35,51)	-25.74 ^c	New York	1.98	0.06	46(37,49)	-18.80 ^c
Delaware	2.56	0.29	24(01,49)	5.04	North Carolina	2.35	0.09	31(19,41)	-3.56
D.C.	1.63	0.30	50(20,51)	-33.10 ^c	North Dakota	2.80	0.36	14(01,48)	14.80
Florida	2.08	0.05	41(32,48)	-14.66	Ohio	2.78	0.09	15(06,25)	14.08
Georgia	2.15	0.09	39(26,48)	-11.61	Oklahoma	3.22	0.17	02(01,17)	32.17 ^c
Hawaii	1.58	0.19	51(38,51)	-34.97 ^c	Oregon	2.40	0.14	28(12,44)	-1.53
Idaho	2.47	0.24	26(03,48)	1.53	Pennsylvania	2.60	0.08	22(12,30)	6.51
Illinois	2.73	0.08	16(06,27)	12.25	Rhode Island	1.84	0.23	47(24,51)	-24.62 ^c
Indiana	2.88	0.12	09(02,25)	18.31 ^c	South Carolina	2.32	0.13	32(16,46)	-4.81
Iowa	2.81	0.16	13(02,31)	15.44 ^c	South Dakota	3.14	0.34	04(01,39)	28.67 ^c
Kansas	2.82	0.18	12(01,32)	15.54 ^c	Tennessee	2.62	0.11	20(08,34)	7.33
Kentucky	3.04	0.15	06(01,22)	24.79 ^c	Texas	2.86	0.07	11(04,20)	17.57 ^c
Louisiana	3.32	0.16	01(01,12)	36.36 ^c	Utah	2.25	0.19	33(11,49)	-7.68
Maine	2.42	0.22	27(05,49)	-0.75	Vermont	1.99	0.30	45(07,51)	-18.40 ^c
Maryland	2.04	0.11	42(28,50)	-16.43 ^c	Virginia	2.24	0.10	35(22,46)	-7.88
Massachusetts	2.10	0.10	40(27,49)	-13.80	Washington	2.39	0.11	29(15,42)	-2.06
Michigan	2.69	0.09	17(07,29)	10.43	West Virginia	3.20	0.22	03(01,23)	31.27 ^c
Minnesota	2.60	0.13	21(07,36)	6.53	Wisconsin	2.58	0.12	23(08,35)	6.04
Mississippi	2.69	0.17	18(03,37)	10.37	Wyoming	2.25	0.37	34(01,51)	-7.85
Missouri	3.08	0.13	05(01,17)	26.57 ^c					



^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 11.21
Cancer of the Kidney And Renal Pelvis (Invasive)

Estimated United States Cancer Prevalence Counts^a on January 1, 2014
By Race/Ethnicity, Sex and Years Since Diagnosis

WARNING: The Prevalence Estimates presented on this page utilize a different tumor selection criteria from previous CSR releases and are NOT directly comparable to estimates from previous CSR releases.
Please see the Prevalence Comparison Chapter of this CSR for more information.

Years Since Diagnosis		0 to <5	5 to <10	10 to <15	15 to <20	20 to <25	25 to <30	0 to <22 ^a	0 to <39 ^e	>=39 ^g	Complete ^h
<u>Race</u>	<u>Sex</u>										
All Races ^b	Both Sexes	197,821	126,608	67,299	37,412	21,766	11,368	447,255	471,919	11,306	483,225
	Males	125,208	75,912	39,763	21,548	12,159	6,033	272,663	285,670	6,388	292,058
	Females	72,613	50,696	27,536	15,864	9,607	5,335	174,592	186,249	4,918	191,167
White ^b	Both Sexes	163,535	106,871	57,965	32,287	19,325	10,092	376,623	398,532	12,630	411,162
	Males	104,181	64,299	34,432	19,114	10,944	5,501	231,177	243,040	5,555	248,595
	Females	59,354	42,572	23,533	13,173	8,381	4,591	145,446	155,492	7,075	162,567
Black ^b	Both Sexes	24,741	14,067	6,760	3,877	1,912	1,027	51,108	53,377	2,261	55,638
	Males	15,098	8,271	3,806	1,764	928	390	29,758	30,672	803	31,475
	Females	9,643	5,796	2,954	2,113	984	637	21,350	22,705	1,458	24,163
Asian/ Pacific Islander ^c	Both Sexes	5,275	2,998	1,503	728	+	+	10,646	+	+	+
	Males	3,330	1,818	882	437	+	+	6,552	+	+	+
Hispanic ^d	Both Sexes	18,532	10,738	5,477	2,630	+	+	38,078	+	+	+
	Males	10,729	6,142	3,065	1,355	+	+	21,693	+	+	+
	Females	7,803	4,596	2,412	1,275	+	+	16,385	+	+	+

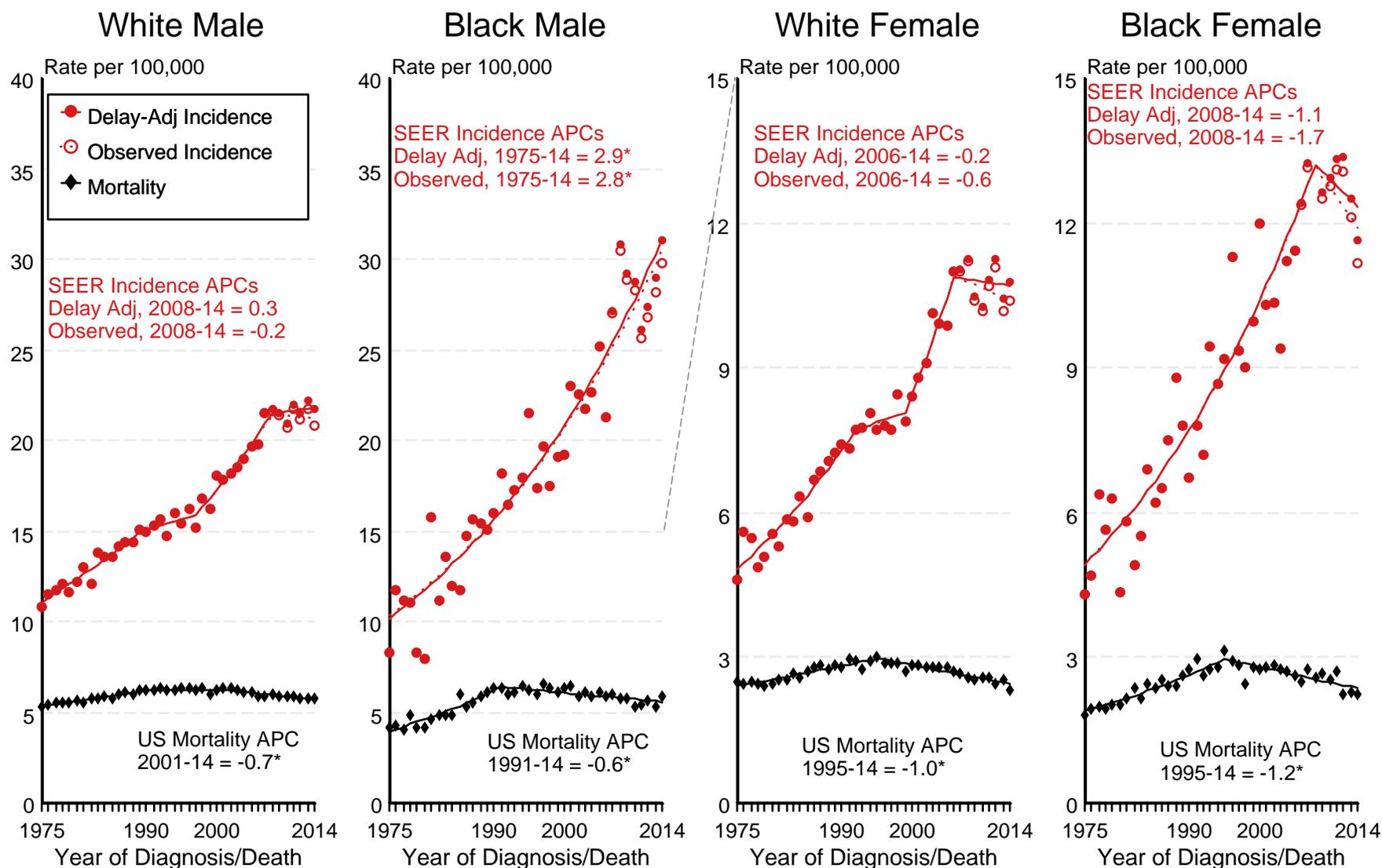
Estimated prevalence percent^a on January 1, 2014, of the SEER^c population diagnosed in the previous 22 years
By Age at Prevalence, Race/Ethnicity and Sex

Age at Prevalence		All Ages	0-9	10-19	20-29	Age Specific (Crude)					Age-Adjusted ^f	
						30-39	40-49	50-59	60-69	70-79	80+	All Ages
<u>Race</u>	<u>Sex</u>											
All Races ^c	Both Sexes	0.1223%	0.0072%	0.0104%	0.0083%	0.0166%	0.0640%	0.1678%	0.3487%	0.5828%	0.5742%	0.1139%
	Males	0.1520%	0.0065%	0.0094%	0.0073%	0.0184%	0.0796%	0.2155%	0.4712%	0.8136%	0.8496%	0.1532%
	Females	0.0934%	0.0079%	0.0114%	0.0093%	0.0147%	0.0485%	0.1221%	0.2381%	0.3939%	0.4082%	0.0817%
White ^c	Both Sexes	0.1353%	0.0072%	0.0110%	0.0092%	0.0179%	0.0677%	0.1771%	0.3657%	0.6203%	0.6071%	0.1204%
	Males	0.1675%	0.0064%	0.0105%	0.0083%	0.0191%	0.0834%	0.2242%	0.4881%	0.8600%	0.9021%	0.1608%
	Females	0.1032%	0.0080%	0.0115%	0.0103%	0.0166%	0.0515%	0.1303%	0.2512%	0.4186%	0.4268%	0.0865%
Black ^c	Both Sexes	0.1109%	0.0102%	0.0129%	0.0102%	0.0169%	0.0703%	0.1863%	0.4191%	0.6528%	0.5643%	0.1271%
	Males	0.1359%	0.0107%	0.0095%	0.0080%	0.0193%	0.0889%	0.2483%	0.5884%	0.9346%	0.8312%	0.1745%
	Females	0.0880%	0.0096%	0.0164%	0.0124%	0.0147%	0.0540%	0.1321%	0.2866%	0.4565%	0.4320%	0.0932%
Asian/ Pacific Islander ^c	Both Sexes	0.0639%	0.0041%	0.0042%	0.0023%	0.0078%	0.0353%	0.0916%	0.1847%	0.2996%	0.3621%	0.0617%
	Males	0.0816%	0.0026%	0.0032%	0.0021%	0.0100%	0.0450%	0.1275%	0.2647%	0.4262%	0.5207%	0.0857%
Hispanic ^d	Both Sexes	0.0476%	0.0055%	0.0053%	0.0025%	0.0058%	0.0268%	0.0608%	0.1192%	0.2009%	0.2646%	0.0432%
	Males	0.0717%	0.0051%	0.0092%	0.0059%	0.0169%	0.0604%	0.1538%	0.3401%	0.5670%	0.5780%	0.1100%
	Females	0.0806%	0.0040%	0.0078%	0.0046%	0.0161%	0.0687%	0.1823%	0.4378%	0.7854%	0.7695%	0.1407%
	Females	0.0626%	0.0063%	0.0105%	0.0073%	0.0178%	0.0518%	0.1262%	0.2556%	0.4040%	0.4622%	0.0863%

- ^a US 2014 cancer prevalence counts are based on 2014 cancer prevalence proportions from the SEER registries and 1/1/2014 US population estimates based on the average of 2013 and 2014 population estimates from the US Bureau of the Census.
^{b c d} Prevalence was calculated using the first invasive tumor for each cancer site diagnosed during the previous 39/22 years. Statistics based on (b) SEER 9 Areas (c) SEER 13 Areas excluding the Alaska Native Registry
^e (d) NHIA for Hispanic for SEER 13 Areas excluding the Alaska Native Registry.
^f Maximum limited-duration prevalence: 39 years for 1975-2014 SEER 9 data; 22 years for 1992-2014 SEER 13 data (excluding the Alaska Native Registry) used to calculate prevalence for Hispanics and Asian Pacific Islanders.
^{g h i} 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 39 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 <39 and >=39. (i) Age-specific completeness index was approximated using empirical data from historical Connecticut tumor registry.
- Statistic not shown. Statistic based on fewer than 5 cases estimated alive in SEER for the time interval.
+ Not available.

Figure 11.1

SEER Observed Incidence, SEER Delay Adjusted Incidence and US Death Rates^a Cancer of the Kidney and Renal Pelvis, 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 4.4, January 2017, 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.

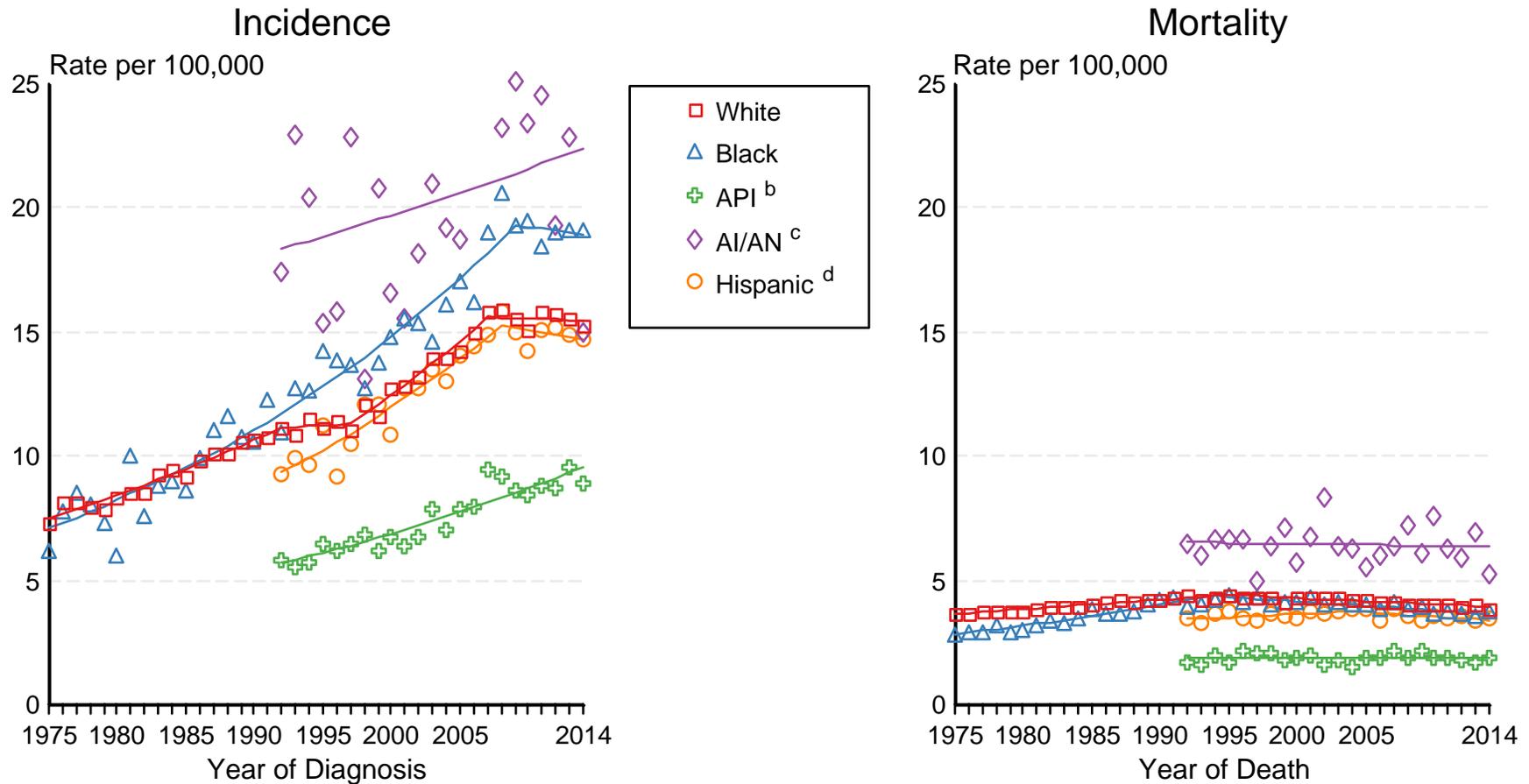
* The APC is significantly different from zero ($p < 0.05$).

Figure 11.2

SEER Incidence and US Death Rates^a Cancer of the Kidney and Renal Pelvis, Both Sexes

Joinpoint Analyses for Whites and Blacks from 1975-2014

and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 1992-2014



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).

Regression lines are calculated using the Joinpoint Regression Program Version 4.4, January 2017, National Cancer Institute. Joinpoint analyses for Whites and Blacks during the 1975-2014 period allow a maximum of 5 joinpoints. Analyses for other ethnic groups during the period 1992-2014 allow a maximum of 4 joinpoints.

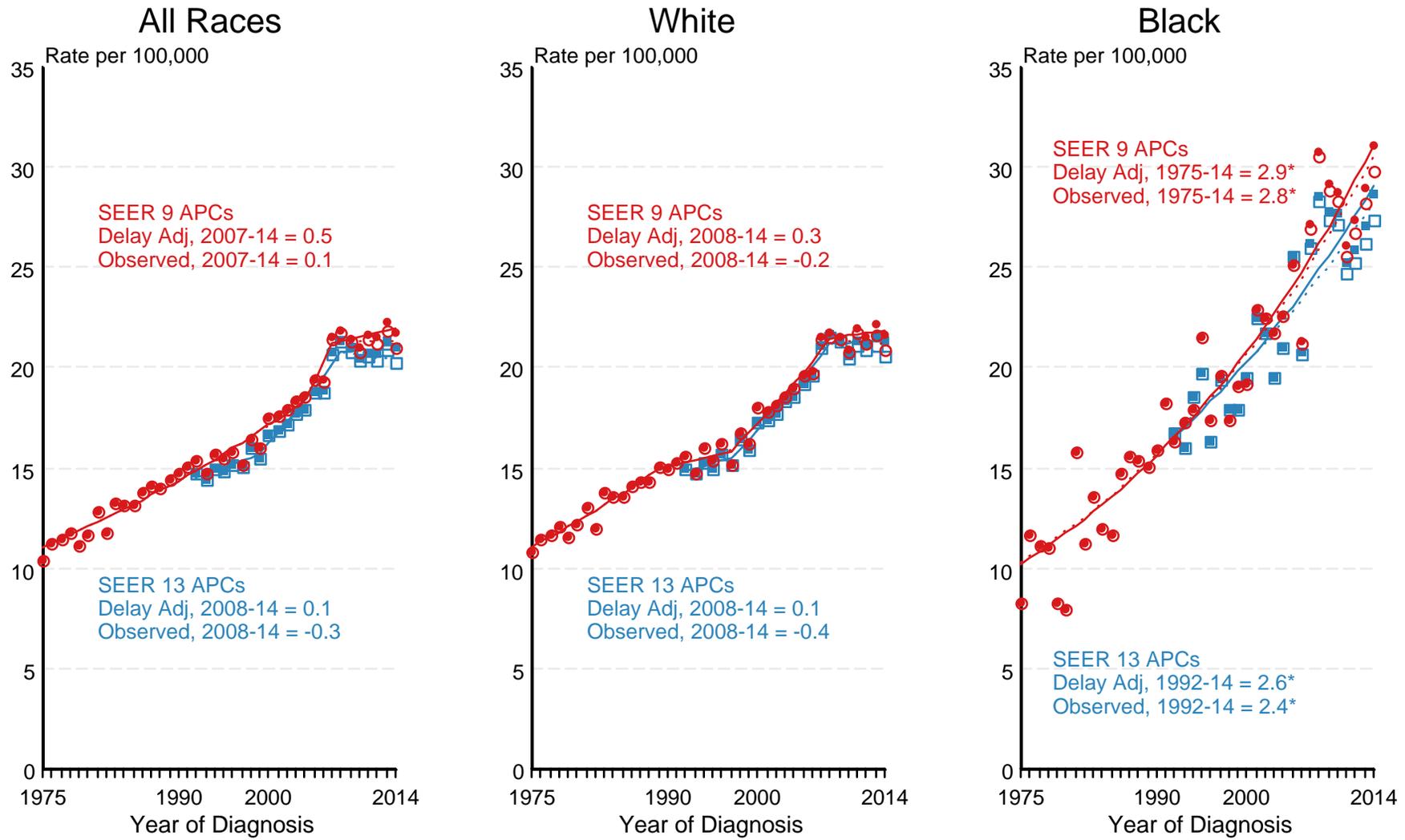
^b API = Asian/Pacific Islander.

^c AI/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 New Hampshire and Oklahoma.

Figure 11.3

SEER Observed Incidence and SEER Delay Adjusted Incidence Rates^a SEER 9 Areas Compared to SEER 13 Areas Cancer of the Kidney and Renal Pelvis, Male, by Race

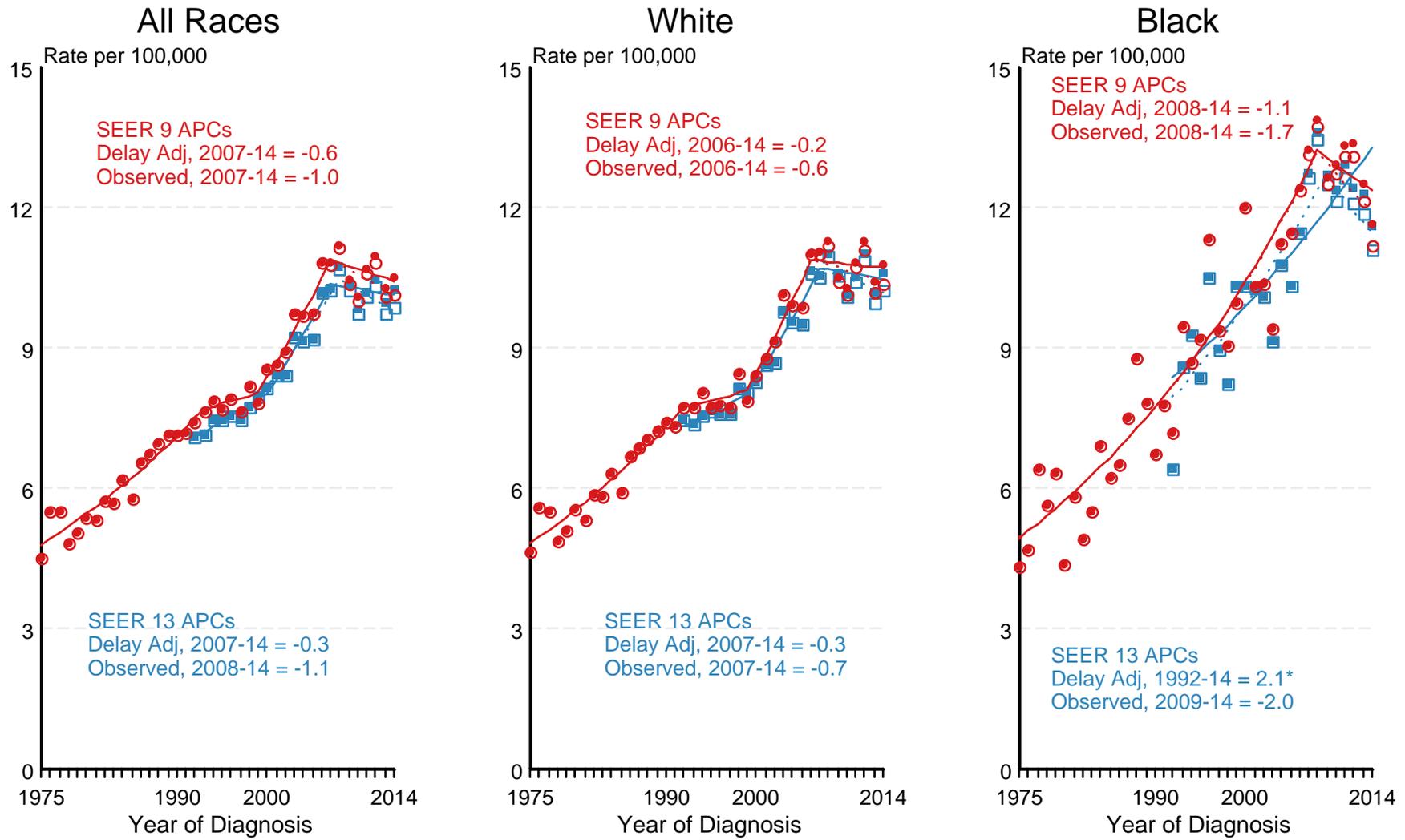


● SEER 9 Delay-Adj. Incidence
 ○ SEER 9 Observed Incidence
 ■ SEER 13 Delay-Adj. Incidence
 □ SEER 13 Observed Incidence

Source: SEER 9 areas and SEER 13 areas.
^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 4.4, January 2017, 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 11.4

SEER Observed Incidence and SEER Delay Adjusted Incidence Rates^a SEER 9 Areas Compared to SEER 13 Areas Cancer of the Kidney and Renal Pelvis, Female, by Race



● SEER 9 Delay-Adj. Incidence
 ○ SEER 9 Observed Incidence
 ■ SEER 13 Delay-Adj. Incidence
 □ SEER 13 Observed Incidence

Source: SEER 9 areas and SEER 13 areas.

^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 4.4, January 2017, National Cancer Institute.

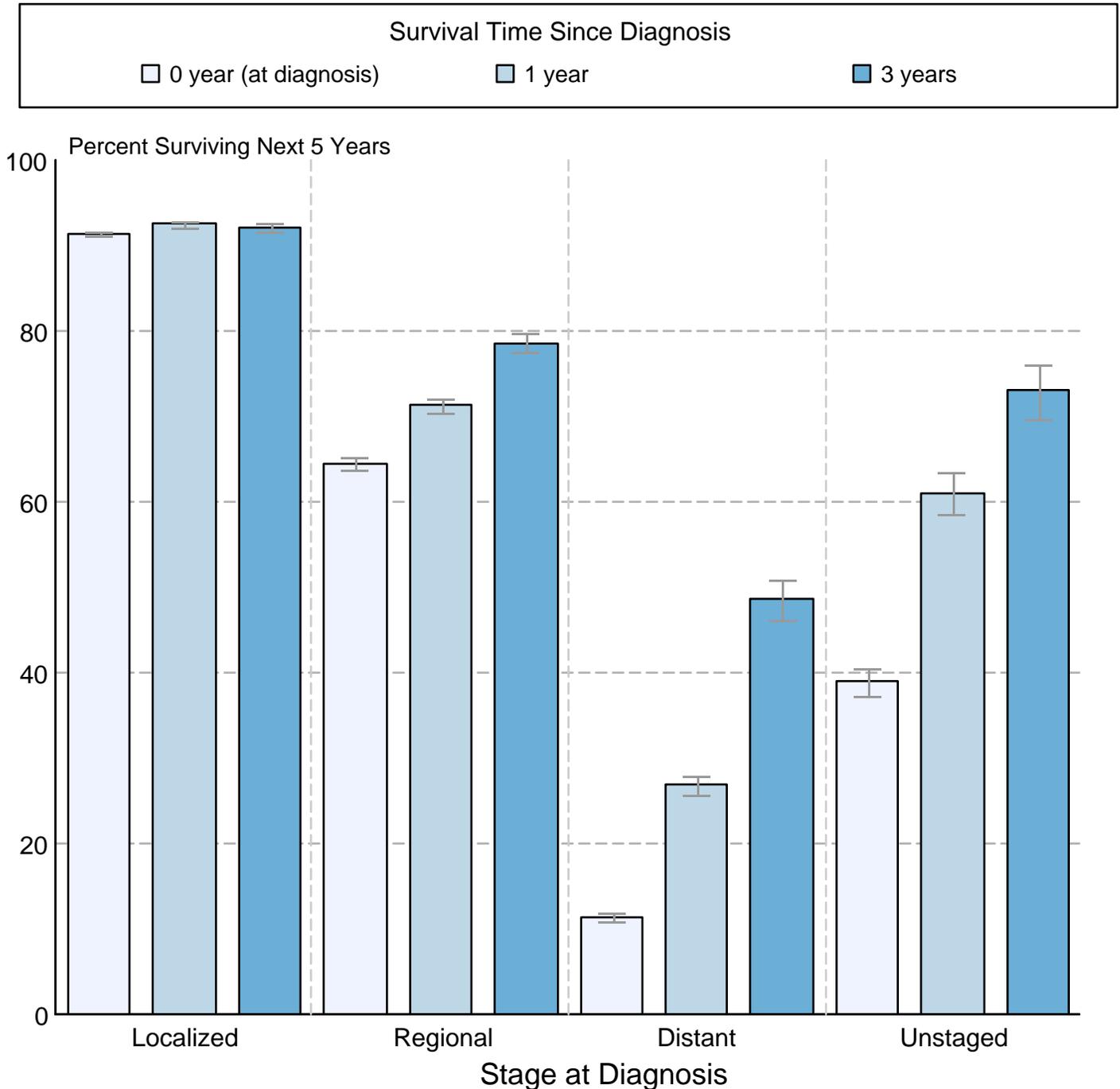
The APC is the Annual Percent Change for the regression line segments. The APC shown on the graph is for the most recent trend.

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

Figure 11.5

Cancer of the Kidney and Renal Pelvis 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
1998-2013 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). California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey and Georgia excluding ATL/RG contribute cases for diagnosis years 2000 and later. The remaining 13 SEER Areas contribute cases for the entire time period. 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.