

Table 14.1  
Cancer of the Liver and Intrahepatic Bile Duct (Invasive)

Trends in SEER Incidence<sup>ab</sup> and U.S. Mortality<sup>c</sup> 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 <sup>d</sup>	
	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	2005-14	2010-14
<u>SEER 9 Delay-Adjusted Incidence<sup>a</sup>, 1975-2014</u>														
All Races	1975-84	1.3*	1984-98	4.8*	1998-01	0.2	2001-09	4.7*	2009-14	2.0*			3.2*	2.0*
White	1975-87	1.6*	1987-98	5.3*	1998-01	-0.1	2001-14	4.4*					4.4*	4.4*
Black	1975-02	2.9*	2002-09	6.3*	2009-14	-0.5							2.5*	-0.5
<u>SEER 13 Delay-Adjusted Incidence<sup>b</sup>, 1992-2014</u>														
All Races	1992-99	5.1*	1999-02	0.5	2002-09	4.5*	2009-14	1.1					2.6*	1.1
White	1992-99	5.5*	1999-02	-0.6	2002-09	5.4*	2009-14	2.2*					3.6*	2.2*
Black	1992-12	4.0*	2012-14	-5.0									1.9	-0.6
<u>SEER 9 Observed Incidence<sup>a</sup>, 1975-2014</u>														
All Races	1975-84	1.3	1984-98	4.8*	1998-01	0.6	2001-11	4.3*	2011-14	-0.5			2.7*	0.6
White	1975-87	1.6*	1987-98	5.4*	1998-01	-0.9	2001-11	4.9*	2011-14	0.6			3.4*	1.7
Black	1975-82	-1.2	1982-12	3.9*	2012-14	-6.3							1.5	-1.3
<u>SEER 13 Observed Incidence<sup>b</sup>, 1992-2014</u>														
All Races	1992-99	5.1*	1999-02	0.3	2002-07	4.9*	2007-12	2.5*	2012-14	-2.5			1.9*	-0.1
White	1992-99	5.5*	1999-02	-0.8	2002-07	5.8*	2007-12	3.6*	2012-14	-1.8			2.9*	0.9
White NH <sup>ef</sup>	1992-99	5.3*	1999-02	-2.1	2002-08	5.9*	2008-14	2.2*					3.4*	2.2*
Black	1992-12	3.9*	2012-14	-6.8									1.4	-1.6
Black NH <sup>ef</sup>	1992-12	4.0*	2012-14	-6.7									1.5	-1.5
API <sup>e</sup>	1992-07	1.2*	2007-14	-2.8*									-1.9*	-2.8*
AI/AN <sup>eg</sup>	1992-14	2.4*											2.4*	2.4*
Hispanic <sup>f</sup>	1992-12	3.2*	2012-14	-6.9									0.9	-1.9
<u>U.S. Cancer Mortality<sup>c</sup>, 1975-2014</u>														
All Races	1975-80	0.2	1980-87	2.0*	1987-96	3.8*	1996-00	0.7	2000-14	2.6*			2.6*	2.6*
White	1975-78	-1.2	1978-87	1.6*	1987-96	3.9*	1996-00	0.6	2000-14	2.7*			2.7*	2.7*
Black	1975-88	0.8*	1988-95	3.2*	1995-00	0.4	2000-14	2.4*					2.4*	2.4*
<u>U.S. Cancer Mortality<sup>c</sup>, 1992-2014</u>														
All Races	1992-96	3.5*	1996-99	0.7	1999-08	2.2*	2008-12	3.3*	2012-14	1.2			2.5*	2.3*
White	1992-96	3.5*	1996-99	0.6	1999-08	2.4*	2008-12	3.5*	2012-14	1.4			2.7*	2.5*
White NH <sup>ef</sup>	1992-96	3.7*	1996-99	0.1	1999-08	2.2*	2008-12	3.6*	2012-14	1.5			2.7*	2.5*
Black	1992-01	1.3*	2001-14	2.4*									2.4*	2.4*
Black NH <sup>ef</sup>	1992-01	1.4*	2001-14	2.5*									2.5*	2.5*
API <sup>e</sup>	1992-14	-0.8*											-0.8*	-0.8*
AI/AN <sup>eg</sup>	1992-14	2.2*											2.2*	2.2*
Hispanic <sup>f</sup>	1992-14	1.8*											1.8*	1.8*

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).

<sup>a</sup>Joinpoint regression line analysis could not be performed on data series.  
<sup>b</sup>  
<sup>c</sup>  
<sup>d</sup>  
<sup>e</sup>  
<sup>f</sup>  
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Table 14.2  
Cancer of the Liver and Intrahepatic Bile Duct (Invasive)

Trends in SEER Incidence<sup>ab</sup> and U.S. Mortality<sup>c</sup> 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 <sup>d</sup>	
	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	2005-14	2010-14
<u>SEER 9 Delay-Adjusted Incidence<sup>a</sup>, 1975-2014</u>														
All Races	1975-84	2.2*	1984-11	3.9*	2011-14	0.4							2.7*	1.3
White	1975-84	1.8	1984-14	4.0*									4.0*	4.0*
Black	1975-03	3.2*	2003-09	7.3*	2009-14	-1.0							2.6	-1.0
<u>SEER 13 Delay-Adjusted Incidence<sup>b</sup>, 1992-2014</u>														
All Races	1992-99	4.6*	1999-02	0.6	2002-07	5.2*	2007-12	2.7*	2012-14	-2.4			2.1*	0.1
White	1992-99	4.8*	1999-02	-0.5	2002-06	6.8*	2006-12	3.8*	2012-14	-1.8			2.9*	1.0
Black	1992-12	4.3*	2012-14	-6.7									1.8	-1.3
<u>SEER 9 Observed Incidence<sup>a</sup>, 1975-2014</u>														
All Races	1975-84	2.2*	1984-11	3.9*	2011-14	-0.8							2.3*	0.4
White	1975-87	1.5*	1987-91	6.9	1991-12	3.9*	2012-14	-0.7					2.8*	1.6
Black	1975-12	3.9*	2012-14	-6.4									1.5	-1.4
<u>SEER 13 Observed Incidence<sup>b</sup>, 1992-2014</u>														
All Races	1992-99	4.6*	1999-02	0.6	2002-07	5.2*	2007-12	2.5*	2012-14	-4.3			1.5	-1.0
White	1992-99	4.8*	1999-02	-0.5	2002-06	6.8*	2006-12	3.7*	2012-14	-3.8			2.3*	-0.1
White NH <sup>ef</sup>	1992-12	3.7*	2012-14	-1.4									2.5*	1.1
Black	1992-12	4.3*	2012-14	-8.5									1.3	-2.3
Black NH <sup>ef</sup>	1992-12	4.3*	2012-14	-8.3									1.4	-2.2
API <sup>e</sup>	1992-11	0.8*	2011-14	-7.9*									-2.2	-5.8*
AI/AN <sup>eg</sup>	1992-14	2.8*											2.8*	2.8*
Hispanic <sup>f</sup>	1992-12	3.3*	2012-14	-9.6									0.3	-3.4
<u>U.S. Cancer Mortality<sup>c</sup>, 1975-2014</u>														
All Races	1975-85	1.5*	1985-96	3.8*	1996-99	0.5	1999-14	2.6*					2.6*	2.6*
White	1975-84	1.1*	1984-95	3.7*	1995-06	2.0*	2006-12	3.4*	2012-14	1.0			2.7*	2.2*
Black	1975-88	0.9*	1988-14	2.3*									2.3*	2.3*
<u>U.S. Cancer Mortality<sup>c</sup>, 1992-2014</u>														
All Races	1992-07	2.2*	2007-12	3.3*	2012-14	0.7							2.5*	2.0*
White	1992-07	2.2*	2007-12	3.5*	2012-14	0.9							2.6*	2.2*
White NH <sup>ef</sup>	1992-96	3.6*	1996-99	0.6	1999-07	2.3*	2007-12	3.4*	2012-14	1.2			2.7*	2.3*
Black	1992-14	2.3*											2.3*	2.3*
Black NH <sup>ef</sup>	1992-14	2.4*											2.4*	2.4*
API <sup>e</sup>	1992-14	-0.8*											-0.8*	-0.8*
AI/AN <sup>eg</sup>	1992-14	2.6*											2.6*	2.6*
Hispanic <sup>f</sup>	1992-14	1.7*											1.7*	1.7*

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.

a  
b  
c  
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Table 14.3  
Cancer of the Liver and Intrahepatic Bile Duct (Invasive)

Trends in SEER Incidence<sup>ab</sup> and U.S. Mortality<sup>c</sup> 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 <sup>d</sup>	2005-14	2010-14
	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC			
<u>SEER 9 Delay-Adjusted Incidence<sup>a</sup>, 1975-2014</u>															
All Races	1975-83	0.6	1983-96	4.1*	1996-14	2.8*								2.8*	2.8*
White	1975-85	0.8	1985-99	4.1*	1999-02	-2.4	2002-14	4.2*						4.2*	4.2*
Black	1975-14	2.8*												2.8*	2.8*
<u>SEER 13 Delay-Adjusted Incidence<sup>b</sup>, 1992-2014</u>															
All Races	1992-14	2.9*												2.9*	2.9*
White	1992-98	6.8*	1998-03	-0.4	2003-14	4.1*								4.1*	4.1*
Black	1992-14	2.8*												2.8*	2.8*
<u>SEER 9 Observed Incidence<sup>a</sup>, 1975-2014</u>															
All Races	1975-83	0.6	1983-96	4.2*	1996-14	2.7*								2.7*	2.7*
White	1975-85	0.8	1985-99	4.1*	1999-02	-2.1	2002-14	3.9*						3.9*	3.9*
Black	1975-14	2.7*												2.7*	2.7*
<u>SEER 13 Observed Incidence<sup>b</sup>, 1992-2014</u>															
All Races	1992-96	6.8*	1996-14	2.4*										2.4*	2.4*
White	1992-98	6.8*	1998-03	-0.2	2003-14	3.8*								3.8*	3.8*
White NH <sup>ef</sup>	1992-98	6.4*	1998-03	-1.2	2003-14	3.8*								3.8*	3.8*
Black	1992-14	2.7*												2.7*	2.7*
Black NH <sup>ef</sup>	1992-14	2.7*												2.7*	2.7*
API <sup>e</sup>	1992-06	1.1*	2006-14	-2.3*										-1.9*	-2.3*
AI/AN <sup>eg</sup>	1992-14	1.2												1.2	1.2
Hispanic <sup>f</sup>	1992-14	2.5*												2.5*	2.5*
<u>U.S. Cancer Mortality<sup>c</sup>, 1975-2014</u>															
All Races	1975-78	-1.5	1978-88	1.4*	1988-95	3.9*	1995-00	0.4	2000-08	1.5*	2008-14	2.9*		2.4*	2.9*
White	1975-78	-1.9	1978-88	1.2*	1988-96	3.6*	1996-00	-0.4	2000-08	1.8*	2008-14	2.9*		2.5*	2.9*
Black	1975-96	2.0*	1996-07	0.4	2007-14	2.8*								2.2*	2.8*
<u>U.S. Cancer Mortality<sup>c</sup>, 1992-2014</u>															
All Races	1992-95	3.8*	1995-01	0.4	2001-04	2.7	2004-08	0.7	2008-14	3.1*				2.3*	3.1*
White	1992-96	3.1*	1996-00	-0.2	2000-08	1.7*	2008-14	2.9*						2.5*	2.9*
White NH <sup>ef</sup>	1992-96	3.1*	1996-01	-0.6	2001-14	2.2*								2.2*	2.2*
Black	1992-14	1.2*												1.2*	1.2*
Black NH <sup>ef</sup>	1992-14	1.3*												1.3*	1.3*
API <sup>e</sup>	1992-14	-0.6*												-0.6*	-0.6*
AI/AN <sup>eg</sup>	1992-14	1.3												1.3	1.3
Hispanic <sup>f</sup>	1992-14	1.6*												1.6*	1.6*

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

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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).

<sup>a</sup> <sup>b</sup> <sup>c</sup> <sup>d</sup> <sup>e</sup> <sup>f</sup> <sup>g</sup> <sup>\*</sup> -

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

Table 14.4  
Cancer of the Liver and Intrahepatic Bile Duct (Invasive)  
Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

Year of Diagnosis:	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1975	2.64	3.93	1.64	2.19	3.23	1.43	4.74	6.46	3.19
1976	2.66	3.84	1.76	2.29	3.16	1.62	4.03	6.23	2.31
1977	2.68	4.25	1.56	2.24	3.57	1.33	3.47	5.02	2.20
1978	2.67	4.15	1.56	2.17	3.27	1.39	4.23	6.82	2.13
1979	2.68	4.06	1.67	2.23	3.30	1.50	4.07	7.10	1.79
1980	2.63	3.94	1.67	2.26	3.28	1.56	3.62	5.01	2.47
1981	2.93	4.65	1.66	2.49	3.88	1.51	4.59	7.09	2.53
1982	2.94	4.37	1.88	2.40	3.48	1.64	3.85	5.40	2.63
1983	2.91	4.68	1.58	2.38	3.74	1.41	4.11	6.30	2.33
1984	2.86	4.27	1.87	2.32	3.41	1.61	3.34	5.26	1.91
1985	3.16	5.09	1.73	2.60	4.15	1.51	3.91	7.51	1.27
1986	3.20	4.78	2.02	2.61	3.89	1.70	5.03	7.56	3.20
1987	3.39	4.84	2.21	2.66	3.64	1.87	5.46	7.69	3.73
1988	3.39	5.45	1.82	2.71	4.25	1.59	4.84	8.86	1.82
1989	3.60	5.58	2.17	2.86	4.28	1.89	5.28	9.07	2.60
1990	3.94	6.04	2.30	3.06	4.66	1.86	6.50	10.61	3.47
1991	4.33	6.68	2.58	3.53	5.55	2.12	5.95	9.24	3.48
1992	4.00	6.09	2.39	3.19	4.83	1.94	5.63	8.42	3.43
1993	4.51	7.16	2.48	3.70	5.91	2.07	6.19	10.12	3.09
1994	4.46	6.99	2.49	3.60	5.60	2.09	5.05	9.52	1.86
1995	4.56	6.81	2.81	3.57	5.37	2.24	6.10	8.58	4.04
1996	5.42	8.28	3.14	4.41	6.76	2.63	6.72	10.96	3.55
1997	5.37	8.05	3.17	4.39	6.56	2.61	7.47	11.37	4.52
1998	5.48	8.34	3.14	4.54	6.95	2.57	6.51	9.64	4.06
1999	5.84	8.87	3.35	4.74	7.20	2.73	7.78	12.32	4.39
2000	5.64	8.52	3.24	4.69	7.05	2.73	7.00	11.73	3.52
2001	5.63	8.70	3.16	4.35	6.60	2.55	7.89	13.79	3.40
2002	5.76	8.76	3.25	4.62	7.03	2.57	7.40	11.95	3.89
2003	6.16	9.46	3.33	4.99	7.73	2.65	7.77	12.52	3.99
2004	6.46	10.09	3.35	5.15	8.00	2.68	9.46	15.89	4.53
2005	6.87	10.46	3.77	5.52	8.58	2.89	9.39	14.90	4.89
2006	7.20	11.11	3.81	5.85	9.19	2.92	9.79	15.29	5.33
2007	7.47	11.67	3.83	6.03	9.47	3.01	10.13	17.60	4.50
2008	7.69	11.80	4.15	6.40	9.74	3.48	11.07	19.28	4.96
2009	8.10	12.59	4.18	6.62	10.27	3.38	11.85	19.51	5.78
2010	8.21	12.58	4.40	6.76	10.37	3.55	11.96	19.68	5.99
2011	8.65	13.33	4.55	7.25	11.15	3.79	11.66	19.79	5.20
2012	8.71	13.53	4.50	7.42	11.60	3.70	12.24	20.73	5.72
2013	8.81	13.50	4.69	7.58	11.52	4.02	11.73	19.16	5.94
2014	8.90	13.43	4.89	7.66	11.63	4.06	11.21	18.53	5.67

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

<sup>a</sup> 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 14.5  
Cancer of the Liver and Intrahepatic Bile Duct (Invasive)  
Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<b>Year of Diagnosis:</b>									
1975-2014	5.50	8.52	3.02	4.46	6.90	2.46	7.94	12.99	4.03
1975	2.64	3.93	1.64	2.19	3.23	1.43	4.74	6.46	3.19
1976	2.66	3.84	1.76	2.29	3.16	1.62	4.03	6.23	-
1977	2.68	4.25	1.56	2.24	3.57	1.33	3.47	5.02	-
1978	2.67	4.15	1.56	2.17	3.27	1.39	4.23	6.82	2.13
1979	2.68	4.06	1.67	2.23	3.30	1.50	4.07	7.10	-
1980	2.63	3.94	1.67	2.26	3.28	1.56	3.62	5.01	2.47
1981	2.93	4.65	1.66	2.49	3.88	1.51	4.59	7.09	2.53
1982	2.94	4.37	1.88	2.40	3.48	1.64	3.85	5.40	2.63
1983	2.91	4.68	1.58	2.38	3.74	1.41	4.11	6.30	2.33
1984	2.86	4.27	1.87	2.32	3.41	1.61	3.34	5.26	1.91
1985	3.16	5.09	1.73	2.60	4.15	1.51	3.91	7.51	-
1986	3.20	4.78	2.02	2.61	3.89	1.70	5.03	7.56	3.20
1987	3.39	4.84	2.21	2.66	3.64	1.87	5.46	7.69	3.73
1988	3.39	5.45	1.82	2.71	4.25	1.59	4.84	8.86	-
1989	3.60	5.58	2.17	2.86	4.28	1.89	5.28	9.07	2.60
1990	3.94	6.04	2.30	3.06	4.66	1.86	6.50	10.61	3.47
1991	4.33	6.68	2.58	3.53	5.55	2.12	5.95	9.24	3.48
1992	4.00	6.09	2.39	3.19	4.83	1.94	5.63	8.42	3.43
1993	4.51	7.16	2.48	3.70	5.91	2.07	6.19	10.12	3.09
1994	4.46	6.99	2.49	3.60	5.60	2.09	5.05	9.52	1.86
1995	4.56	6.81	2.81	3.57	5.37	2.24	6.10	8.58	4.04
1996	5.42	8.28	3.14	4.41	6.76	2.63	6.72	10.96	3.55
1997	5.37	8.05	3.17	4.39	6.56	2.61	7.47	11.37	4.52
1998	5.48	8.34	3.14	4.54	6.95	2.57	6.51	9.64	4.06
1999	5.84	8.87	3.35	4.74	7.20	2.73	7.78	12.32	4.39
2000	5.64	8.52	3.24	4.69	7.05	2.73	7.00	11.73	3.52
2001	5.63	8.70	3.16	4.35	6.60	2.55	7.89	13.79	3.40
2002	5.76	8.76	3.25	4.62	7.03	2.57	7.40	11.95	3.89
2003	6.16	9.46	3.33	4.99	7.73	2.65	7.77	12.52	3.99
2004	6.46	10.09	3.35	5.15	8.00	2.68	9.46	15.89	4.53
2005	6.87	10.46	3.77	5.52	8.58	2.89	9.39	14.90	4.89
2006	7.19	11.09	3.80	5.84	9.18	2.91	9.78	15.27	5.33
2007	7.45	11.64	3.82	6.02	9.44	3.00	10.10	17.55	4.49
2008	7.66	11.76	4.13	6.38	9.71	3.46	11.05	19.22	4.95
2009	8.05	12.53	4.16	6.59	10.23	3.36	11.81	19.44	5.75
2010	8.16	12.50	4.37	6.72	10.32	3.53	11.89	19.56	5.96
2011	8.58	13.23	4.51	7.20	11.07	3.77	11.59	19.68	5.16
2012	8.61	13.38	4.45	7.35	11.48	3.67	12.13	20.55	5.67
2013	8.64	13.24	4.60	7.43	11.29	3.94	11.57	18.89	5.85
2014	8.50	12.83	4.67	7.30	11.09	3.87	10.81	17.87	5.47

<sup>a</sup> 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 14.6  
Cancer of the Liver and Intrahepatic Bile Duct (Invasive)

Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<b>Year of Death:</b>									
1975-2014	4.51	6.63	2.84	4.12	6.01	2.65	6.32	9.86	3.71
1975	2.81	3.85	2.05	2.62	3.52	1.99	4.30	6.34	2.69
1976	2.75	3.82	1.96	2.55	3.48	1.88	4.46	6.81	2.67
1977	2.78	3.84	1.99	2.56	3.44	1.92	4.52	7.19	2.49
1978	2.74	3.86	1.92	2.50	3.48	1.81	4.60	6.99	2.84
1979	2.82	3.88	2.04	2.62	3.54	1.95	4.36	6.64	2.70
1980	2.78	3.88	2.00	2.56	3.51	1.91	4.49	6.78	2.78
1981	2.87	4.11	1.99	2.67	3.76	1.91	4.40	6.67	2.73
1982	2.94	4.20	2.05	2.69	3.79	1.93	4.69	7.16	2.93
1983	2.92	4.20	2.00	2.63	3.72	1.87	4.80	7.27	3.00
1984	3.02	4.35	2.07	2.74	3.85	1.98	4.82	7.93	2.65
1985	3.11	4.40	2.19	2.85	3.94	2.08	4.57	7.18	2.74
1986	3.15	4.53	2.15	2.88	4.08	2.03	4.72	7.26	2.90
1987	3.20	4.56	2.20	2.92	4.14	2.04	4.76	6.90	3.23
1988	3.30	4.82	2.21	3.02	4.38	2.08	4.76	7.24	3.03
1989	3.44	5.02	2.29	3.13	4.51	2.15	5.10	8.00	3.09
1990	3.61	5.27	2.43	3.27	4.74	2.25	5.29	7.81	3.59
1991	3.69	5.32	2.51	3.35	4.80	2.32	5.29	7.97	3.48
1992	3.91	5.71	2.59	3.56	5.17	2.40	5.45	8.50	3.32
1993	4.04	5.82	2.74	3.71	5.32	2.56	5.49	8.10	3.59
1994	4.13	6.02	2.73	3.77	5.42	2.55	5.72	8.90	3.53
1995	4.36	6.31	2.91	3.97	5.71	2.69	6.21	9.30	4.11
1996	4.44	6.46	2.91	4.08	5.87	2.73	5.90	9.07	3.68
1997	4.50	6.53	2.97	4.11	5.91	2.75	6.02	8.89	3.92
1998	4.59	6.74	2.92	4.19	6.08	2.73	6.38	10.13	3.70
1999	4.52	6.50	2.95	4.15	5.95	2.73	5.95	8.76	3.82
2000	4.64	6.80	2.94	4.22	6.15	2.71	6.08	9.54	3.58
2001	4.72	6.94	2.98	4.33	6.37	2.73	6.25	9.12	4.08
2002	4.88	7.18	3.03	4.49	6.53	2.84	6.33	9.96	3.65
2003	5.02	7.39	3.12	4.58	6.73	2.85	6.65	10.30	4.03
2004	5.13	7.42	3.23	4.68	6.73	2.98	6.92	10.67	4.11
2005	5.27	7.78	3.21	4.84	7.09	2.99	6.97	11.18	3.79
2006	5.30	7.72	3.29	4.88	7.04	3.09	6.96	10.92	3.91
2007	5.37	7.91	3.26	4.98	7.23	3.09	7.01	11.32	3.81
2008	5.57	8.34	3.26	5.15	7.63	3.05	7.35	11.92	3.94
2009	5.78	8.58	3.43	5.34	7.86	3.21	7.76	12.17	4.33
2010	5.91	8.74	3.54	5.47	8.00	3.32	7.73	12.28	4.26
2011	6.13	9.05	3.64	5.68	8.34	3.39	8.10	12.77	4.53
2012	6.34	9.36	3.77	5.91	8.64	3.54	8.26	13.25	4.45
2013	6.47	9.54	3.85	6.03	8.79	3.64	8.38	13.45	4.54
2014	6.48	9.48	3.92	6.05	8.79	3.68	8.38	13.05	4.79

<sup>a</sup> 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 14.7  
Cancer of the Liver and Intrahepatic Bile Duct (Invasive)

SEER Incidence<sup>a</sup> and U.S. Death<sup>b</sup> Rates, Age-Adjusted and Age-Specific Rates, by Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<b>SEER Incidence</b>									
<b>Age at Diagnosis</b>									
Age-Adjusted Rates, 2010-2014									
All ages	8.6	13.3	4.6	7.8	11.9	4.1	10.1	16.7	5.0
Under 65	4.7	7.6	2.0	4.3	6.8	1.8	6.6	11.0	2.8
65 and over	35.4	52.0	22.4	31.8	46.7	19.9	34.6	56.1	19.6
All ages (WHO world std) <sup>c</sup>	6.7	10.4	3.4	6.0	9.3	3.0	8.3	13.9	3.9
Age-Specific Rates, 2010-2014									
<1	1.4	1.6	1.2	1.5	1.8	1.3	-	-	-
1-4	0.7	0.9	0.5	0.7	0.9	0.5	-	-	-
5-9	0.1	-	0.1	0.1	-	-	-	-	-
10-14	0.1	0.2	-	0.1	0.2	-	-	-	-
15-19	0.1	0.1	-	0.1	-	-	-	-	-
20-24	0.2	0.2	0.2	0.2	0.2	0.2	-	-	-
25-29	0.3	0.4	0.2	0.2	0.3	0.2	0.4	-	-
30-34	0.4	0.5	0.4	0.3	0.3	0.3	0.7	1.0	-
35-39	0.8	1.1	0.6	0.6	0.6	0.5	1.0	1.5	-
40-44	1.8	2.5	1.0	1.4	1.9	0.8	2.0	2.8	1.2
45-49	4.9	7.7	2.2	4.5	6.9	2.1	4.4	6.6	2.5
50-54	13.2	21.4	5.3	12.7	20.5	4.9	14.5	22.8	7.1
55-59	27.0	44.7	10.3	24.5	40.3	9.2	39.8	66.3	16.9
60-64	33.4	55.2	13.4	29.3	48.1	11.6	57.3	102.7	20.3
65-69	32.1	49.4	16.7	28.2	42.8	14.9	43.7	77.8	17.1
70-74	34.2	50.5	20.5	31.0	45.3	18.7	33.9	57.5	16.8
75-79	39.3	55.5	26.7	36.0	51.7	23.5	29.4	39.7	22.7
80-84	40.7	59.0	28.3	36.9	54.2	24.8	30.5	46.9	21.4
85+	32.1	46.5	24.7	28.2	40.6	21.7	29.6	44.1	23.5
<b>U.S. Mortality</b>									
<b>Age at Death</b>									
Age-Adjusted Rates, 2010-2014									
All ages	6.3	9.2	3.7	5.8	8.5	3.5	8.2	13.0	4.5
Under 65	2.8	4.4	1.3	2.5	3.9	1.2	4.4	7.4	1.9
65 and over	30.3	42.6	20.9	28.7	40.3	19.8	34.3	51.5	22.8
All ages (WHO world std) <sup>c</sup>	4.6	6.9	2.6	4.2	6.3	2.4	6.4	10.3	3.3
Age-Specific Rates, 2010-2014									
<1	-	-	-	-	-	-	-	-	-
1-4	0.1	0.1	0.1	0.1	0.2	0.1	-	-	-
5-9	0.0	0.1	-	0.0	0.1	-	-	-	-
10-14	0.0	0.0	-	0.0	-	-	-	-	-
15-19	0.0	0.0	0.0	0.0	0.1	0.0	-	-	-
20-24	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-	-
25-29	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.4	-
30-34	0.3	0.3	0.2	0.2	0.2	0.2	0.5	0.7	0.3
35-39	0.5	0.6	0.3	0.4	0.5	0.3	0.7	1.0	0.5
40-44	1.1	1.5	0.7	0.9	1.1	0.6	1.5	2.2	0.8
45-49	2.9	4.3	1.6	2.6	3.9	1.4	3.6	5.2	2.2
50-54	7.7	12.2	3.4	7.2	11.4	3.1	10.1	15.6	5.3
55-59	16.1	26.3	6.5	14.5	23.5	5.8	26.2	44.5	10.6
60-64	20.6	33.2	9.0	18.3	28.9	8.3	37.1	67.1	12.7
65-69	21.5	31.9	12.2	19.6	28.6	11.5	34.0	57.1	16.1
70-74	26.5	37.5	17.1	25.1	35.3	16.3	30.0	45.5	18.9
75-79	33.9	46.6	23.9	32.7	45.2	22.6	33.0	46.0	24.7
80-84	39.6	54.5	29.4	37.9	52.1	28.0	39.8	58.8	29.5
85+	40.2	55.8	32.4	38.9	54.1	31.1	39.5	52.6	34.1

<sup>a</sup> 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.

<sup>b</sup> US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

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

<sup>c</sup> 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 14.8  
Cancer of the Liver and Intrahepatic Bile Duct (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
<b>5-Year Relative Survival (Percent)</b>									
<b>Year of Diagnosis:</b>									
1960-1963 <sup>a</sup>	-	-	-	-	-	-	-	-	-
1970-1973 <sup>a</sup>	-	-	-	-	-	-	-	-	-
1975-1977 <sup>b</sup>	3.4	1.8	6.3	3.4	1.9	5.8	1.8	0.0	5.6
1978-1980 <sup>b</sup>	3.3	2.2	5.4	3.3	2.2	4.8	3.6	3.0	5.0
1981-1983 <sup>b</sup>	3.7	2.9	5.2	3.9	3.0	5.4	2.8	2.1	4.7
1984-1986 <sup>b</sup>	5.7	3.7	9.5	5.7	3.7	9.1	4.4	2.1	9.1
1987-1989 <sup>b</sup>	4.9	3.2	8.0	5.7	3.4	9.4	2.7	1.6	4.9
1990-1992 <sup>b</sup>	5.6	5.0	7.0	6.2	5.1	8.3	2.6	2.0	3.6
1993-1995 <sup>b</sup>	5.6	5.3	6.1	5.2	4.9	5.7	4.0	2.8	7.3
1996-1998 <sup>b</sup>	8.6	8.3	9.1	8.4	7.6	10.2	4.6	5.9	2.0
1999-2001 <sup>b</sup>	11.3	10.9	12.2	10.3	9.7	11.7	7.6	6.8	9.5
2002-2006 <sup>b</sup>	15.7	15.8	15.6	15.2	15.6	13.9	10.5	8.5	16.0
2007-2013 <sup>b</sup>	18.5 <sup>f</sup>	18.7 <sup>f</sup>	17.8 <sup>f</sup>	17.7 <sup>f</sup>	18.0 <sup>f</sup>	16.8 <sup>f</sup>	14.0 <sup>f</sup>	14.3	13.0 <sup>f</sup>
<b>5-Year Period Survival (Percent)<sup>cd</sup></b>									
2013	18.2	17.8	19.5	17.5	17.2	18.4	14.4	13.0	18.6
<b>Stage Distribution (%) 2007-2013<sup>ce</sup></b>									
<b>All Stages</b>									
Number of cases	44,821	32,734	12,087	31,175	22,892	8,283	5,768	4,289	1,479
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
Localized	43	43	43	43	43	42	42	41	43
Regional	27	28	25	27	27	25	29	30	27
Distant	18	18	18	18	18	18	19	20	19
Unstaged	12	11	14	13	12	15	10	9	12
<b>5-Year Relative Survival (Percent), 2007-2013<sup>c</sup></b>									
<b>Age at Diagnosis:</b>									
Ages <45	38.8	35.6	45.1	43.5	40.4	48.9	27.5	25.8	30.3 <sup>g</sup>
Ages 45-54	20.0	18.7	26.1	20.2	18.9	26.2	12.2	11.5	14.6
Ages 55-64	19.8	18.8	24.1	19.6	18.7	23.4	14.1	12.6	20.4
Ages 65-74	15.7	15.3	16.8	13.6	12.8	15.6	12.9	14.4	9.7
Ages 75+	7.9	8.1	7.6	6.4	7.0	5.7	4.7	4.0	5.0
Ages <65	21.3	19.8	27.2	21.4	19.9	27.2	14.5	13.1	19.5
Ages 65+	12.2	12.4	11.7	10.3	10.5	10.0	10.4	11.8	7.9
<b>Stage<sup>e</sup>:</b>									
All Stages	17.6	17.2	18.6	16.8	16.5	17.6	13.4	12.8	15.1
Localized	31.1	30.8	32.1	29.6	29.3	30.4	25.1	23.6	29.3
Regional	10.7	10.3	11.7	10.8	10.4	12.0	7.0	7.2	6.8
Distant	2.8	2.2	4.6	3.0	2.3	5.0	1.2	1.2	1.6
Unstaged	6.4	6.3	6.7	5.7	5.5	6.3	6.3	7.4	4.6

<sup>a</sup> Based on End Results data from a series of hospital registries and one population-based registry.

<sup>b</sup> SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta).

<sup>c</sup> Based on follow-up of patients into 2014.

<sup>d</sup> 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).

<sup>e</sup> Based on follow-up of patients into 2014.

<sup>f</sup> 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). Stage at diagnosis is classified using SEER Summary Stage 2000. Stage distribution percentages may not sum to 100 due to rounding. The difference between 1975-1977 and 2007-2013 is statistically significant ( $p<.05$ ).

<sup>g</sup> The standard error is between 5 and 10 percentage points.

<sup>h</sup> The standard error is greater than 10 percentage points.

<sup>i</sup> Statistic could not be calculated due to fewer than 25 cases during the time period.

Table 14.9  
Cancer of the Liver and Intrahepatic Bile Duct (Invasive)  
  
SEER<sup>a</sup> Relative Survival (Percent)  
By Year of Diagnosis  
  
All Races, Males and Females

	Year of Diagnosis																										
	1975-	1980-	1985-	1990-	1979	1984	1989	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Survival Time</b>																											
1-year	13.9	15.0	17.7	21.5	23.0	24.7	27.8	26.9	27.7	29.0	31.3	32.9	36.1	38.4	39.3	39.5	42.0	45.1	44.7	48.3	46.6	46.2	48.4				
2-year	6.6	8.3	9.8	12.4	13.6	15.0	17.5	17.0	17.7	20.0	21.7	22.3	24.7	26.2	27.0	28.8	30.2	32.6	31.3	35.8	33.2	32.1					
3-year	4.8	6.1	7.3	8.7	9.5	10.8	12.5	13.1	14.3	15.5	16.0	17.5	20.5	20.7	21.2	23.4	23.9	25.7	24.2	27.6	25.9						
4-year	4.1	4.6	6.3	6.9	6.9	9.1	10.1	10.7	12.0	12.5	13.8	15.5	17.0	17.6	18.3	19.9	20.9	21.5	19.6	22.2							
5-year	3.4	3.8	5.4	5.6	5.7	8.1	8.2	9.4	10.1	11.7	12.0	14.1	15.6	14.7	16.8	17.1	18.4	18.5	16.8								
6-year	3.0	3.6	5.0	5.0	4.9	7.0	7.4	8.4	9.0	10.8	11.0	12.0	14.9	13.4	15.3	15.4	16.4	16.8									
7-year	2.8	3.1	4.8	4.6	4.4	6.6	6.7	6.9	8.3	10.0	9.9	11.4	13.2	12.7	13.9	14.4	14.4										
8-year	2.7	2.9	4.4	4.4	4.2	6.4	5.9	6.6	7.8	9.7	8.9	10.5	12.1	12.1	13.4	13.5											
9-year	2.6	2.9	4.2	4.3	4.1	5.9	5.7	5.6	7.5	9.5	8.5	10.2	11.5	11.6	12.4												
10-year	2.6	2.8	4.0	4.2	3.6	5.6	5.5	5.5	7.4	9.1	7.8	9.3	10.9	10.8													
11-year	2.6	2.7	4.0	4.0	3.2	5.5	5.5	4.8	6.9	8.7	7.8	8.7	10.7														
12-year	2.5	2.7	3.8	3.9	3.1	5.2	5.5	4.6	6.8	8.7	7.6	8.2															
13-year	2.3	2.5	3.8	3.8	3.1	5.0	5.5	4.5	6.6	8.4	7.5																
14-year	2.3	2.5	3.7	3.7	3.1	4.8	5.5	4.5	6.1	8.4																	
15-year	2.2	2.5	3.7	3.7	3.0	4.0	5.1	4.5	5.9																		
16-year	2.2	2.4	3.7	3.6	3.0	3.9	4.8	4.5																			
17-year	2.1	2.3	3.7	3.5	2.9	3.9	4.6																				
18-year	2.0	2.2	3.7	3.4	2.7	3.9																					
19-year	2.0	2.1	3.7	3.3	2.7																						
20-year	2.0	2.1	3.7	3.3																							

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

Table 14.10  
Cancer of the Liver and Intrahepatic Bile Duct (Invasive)

SEER<sup>a</sup> Relative Survival (Percent)  
By Year of Diagnosis

All Races, Males

Year of Diagnosis

	1975-	1980-	1985-	1990-	1979	1984	1989	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013							
<b>Survival Time</b>																																		
1-year	11.4	12.9	14.8	20.2	21.3	24.8	26.9	25.6	28.8	28.5	30.8	32.3	35.1	37.5	40.2	39.9	41.1	45.7	45.4	49.1	46.5	46.1	48.1											
2-year	4.8	6.5	7.4	11.4	12.1	15.9	16.6	16.1	17.6	19.4	20.5	21.3	24.8	25.6	27.8	29.7	29.6	32.9	31.9	36.6	33.3	31.8												
3-year	3.2	4.9	5.2	8.1	8.9	11.2	12.1	12.0	13.7	15.6	15.2	17.8	20.1	19.9	21.7	23.8	24.0	26.0	24.4	28.8	26.3													
4-year	2.7	3.4	4.5	6.3	6.2	9.2	9.7	10.6	11.4	12.3	12.9	15.8	16.9	17.5	18.6	20.0	20.3	21.8	19.6	22.9														
5-year	2.0	2.8	3.6	5.2	5.0	7.8	8.0	8.9	10.1	11.4	11.1	14.5	15.8	14.4	17.1	17.0	18.0	18.8	17.3															
6-year	1.7	2.6	3.3	4.8	4.2	6.8	7.5	7.6	8.9	10.6	10.2	12.2	15.0	13.1	15.6	15.4	15.9	16.7																
7-year	1.4	2.2	3.3	4.3	3.7	6.5	6.9	6.2	8.3	10.1	9.2	11.3	13.4	12.3	13.9	14.4	13.8																	
8-year	1.4	1.9	3.0	4.1	3.5	6.3	5.7	6.1	7.7	10.0	8.1	10.2	12.1	11.7	13.2	13.6																		
9-year	1.3	1.9	3.0	3.9	3.4	5.9	5.6	5.2	7.5	9.9	7.6	9.7	11.4	11.3	12.3																			
10-year	1.3	1.9	2.9	3.8	2.7	5.4	5.6	5.2	7.3	9.6	7.1	8.7	10.5	10.4																				
11-year	1.3	1.8	2.9	3.7	2.3	5.2	5.6	4.4	6.9	9.3	7.1	7.9	10.4																					
12-year	1.3	1.7	2.7	3.6	2.1	4.9	5.6	4.3	6.9	9.1	7.0	7.4																						
13-year	1.1	1.4	2.7	3.5	2.1	4.8	5.6	4.3	6.8	8.8	6.8																							
14-year	1.1	1.4	2.6	3.5	2.1	4.4	5.5	4.2	6.3	8.8																								
15-year	1.0	1.4	2.6	3.5	2.1	3.8	5.2	4.2	6.3																									
16-year	1.0	1.4	2.6	3.4	2.1	3.8	4.6	4.1																										
17-year	1.0	1.4	2.6	3.4	2.1	3.8	4.3																											
18-year	1.0	1.4	2.6	3.3	2.1	3.8																												
19-year	1.0	1.4	2.6	3.2	2.1																													
20-year	1.0	1.4	2.6	3.2																														

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

Table 14.11  
Cancer of the Liver and Intrahepatic Bile Duct (Invasive)

SEER<sup>a</sup> Relative Survival (Percent)  
By Year of Diagnosis

All Races, Females

Year of Diagnosis

	1975-	1980-	1985-	1990-	1979	1984	1989	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Survival Time</b>																											
1-year	18.7	19.0	23.6	24.2	26.3	24.6	29.7	29.7	25.4	30.2	32.4	34.5	38.6	40.7	37.0	38.6	44.5	43.5	42.6	46.2	47.0	46.5	49.2				
2-year	9.9	11.8	14.5	14.4	16.5	13.2	19.3	18.7	17.9	21.5	24.5	24.7	24.6	28.0	24.9	26.3	32.0	31.6	29.4	33.4	32.9	32.8					
3-year	7.8	8.3	11.4	10.1	10.4	9.9	13.3	15.2	15.3	15.3	17.8	16.6	21.3	22.9	20.1	22.4	23.4	24.9	23.5	24.2	25.0						
4-year	6.6	6.8	9.9	8.1	8.3	8.7	11.0	10.8	13.3	12.6	15.9	14.9	17.4	18.1	17.6	19.5	22.4	20.7	19.4	20.4							
5-year	6.1	5.7	8.8	6.4	7.0	8.5	8.4	10.2	10.3	12.3	14.0	13.3	14.9	15.4	16.1	17.4	19.4	17.8	15.4								
6-year	5.4	5.3	8.4	5.6	6.0	7.3	7.3	9.9	9.2	11.3	12.7	11.8	14.5	14.3	14.6	15.7	17.8	16.8									
7-year	5.4	4.8	7.7	5.1	5.7	6.7	6.2	8.4	8.2	10.0	11.3	11.6	12.6	13.8	13.7	14.6	16.1										
8-year	5.2	4.7	7.0	5.1	5.4	6.4	6.2	7.5	8.0	9.2	10.7	11.1	12.1	13.1	13.7	13.2											
9-year	4.9	4.6	6.6	5.0	5.4	5.9	5.8	6.2	7.4	8.4	10.6	11.1	11.6	12.2	12.5												
10-year	4.9	4.5	6.2	5.0	5.1	5.9	5.2	5.9	7.4	8.1	9.5	10.8	11.6	12.0													
11-year	4.9	4.4	6.0	4.5	4.8	5.9	5.2	5.6	6.9	7.6	9.2	10.6	11.4														
12-year	4.5	4.4	5.9	4.4	4.8	5.7	5.2	5.3	6.3	7.6	9.0	10.1															
13-year	4.4	4.4	5.8	4.4	4.8	5.4	5.2	5.0	6.0	7.6	9.0																
14-year	4.4	4.4	5.8	4.2	4.8	5.4	5.2	5.0	5.3	7.6																	
15-year	4.4	4.3	5.8	4.0	4.5	4.3	5.0	5.0	4.9																		
16-year	4.3	4.2	5.8	4.0	4.5	3.9	5.0	5.0																			
17-year	4.0	4.1	5.8	3.8	4.1	3.9	5.0																				
18-year	3.8	3.8	5.7	3.6	3.6	3.9																					
19-year	3.8	3.5	5.7	3.5	3.6																						
20-year	3.8	3.5	5.6	3.4																							

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

Table 14.12

## Cancer of the Liver and Intrahepatic Bile Duct (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 Being Diagnosed with Cancer						Risk of Dying						from Cancer				
		+10 yrs			+20 yrs			+30 yrs			Ever			+10 yrs			+20 yrs			+30 yrs			from Cancer	
All Races	0	0.01	0.01	0.01	0.99	0.75																		
	10	0.00	0.00	0.01	0.99	0.76																		
	20	0.00	0.01	0.04	0.99	0.76																		
	30	0.01	0.04	0.23	1.00	0.76																		
	40	0.04	0.22	0.52	1.00	0.77																		
	50	0.19	0.50	0.78	0.99	0.77																		
	60	0.32	0.62	0.81	0.85	0.69																		
	70	0.33	0.55	-	0.59	0.55																		
	80	0.28	-	-	0.34	0.38																		
White	0	0.01	0.01	0.01	0.89	0.70																		
	10	0.00	0.00	0.01	0.90	0.71																		
	20	0.00	0.01	0.04	0.90	0.71																		
	30	0.00	0.04	0.21	0.90	0.72																		
	40	0.03	0.21	0.47	0.91	0.72																		
	50	0.18	0.45	0.71	0.90	0.72																		
	60	0.29	0.56	0.73	0.76	0.65																		
	70	0.31	0.49	-	0.53	0.52																		
	80	0.25	-	-	0.30	0.36																		
Black	0	0.00	0.00	0.01	1.02	0.86																		
	10	0.00	0.00	0.01	1.04	0.87																		
	20	0.00	0.01	0.05	1.04	0.88																		
	30	0.01	0.04	0.29	1.05	0.89																		
	40	0.03	0.28	0.70	1.06	0.90																		
	50	0.26	0.69	0.92	1.06	0.90																		
	60	0.48	0.72	0.85	0.88	0.80																		
	70	0.29	0.44	-	0.49	0.55																		
	80	0.22	-	-	0.28	0.38																		

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.

<sup>a</sup> Underlying incidence and mortality data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.

<sup>b</sup> 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 14.13

## Cancer of the Liver and Intrahepatic Bile Duct (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 Being Diagnosed with Cancer						Risk of Dying from Cancer		Risk of Being Diagnosed with Cancer						
		+10 yrs			+20 yrs			+30 yrs			Ever					+10 yrs			+20 yrs			
All Races	0	0.01	0.01	0.01	1.39	0.99		Asian/	0	0.00	0.01	0.01	2.48	2.04								
	10	0.00	0.00	0.01	1.40	1.01		Pacific	10	0.00	0.01	0.03	2.50	2.05								
	20	0.00	0.01	0.06	1.40	1.01		Islander	20	0.00	0.03	0.13	2.50	2.06								
	30	0.01	0.06	0.36	1.42	1.02			30	0.02	0.12	0.47	2.51	2.07								
	40	0.05	0.36	0.82	1.43	1.03			40	0.10	0.45	1.06	2.50	2.06								
	50	0.31	0.79	1.16	1.42	1.03			50	0.36	0.98	1.68	2.44	2.02								
	60	0.51	0.92	1.15	1.19	0.92			60	0.65	1.37	1.99	2.17	1.87								
	70	0.47	0.74	-	0.79	0.70			70	0.79	1.46	-	1.66	1.59								
	80	0.39	-	-	0.46	0.48			80	0.83	-	-	1.07	1.15								
White	0	0.01	0.01	0.01	1.25	0.93		American	0	0.01	0.01	0.01	1.67	1.35								
	10	0.00	0.00	0.01	1.26	0.94		Indian/	10	0.00	0.00	0.01	1.68	1.37								
	20	0.00	0.01	0.05	1.26	0.94		Alaska	20	0.00	0.01	0.09	1.69	1.38								
	30	0.01	0.05	0.33	1.27	0.95		Native <sup>a</sup>	30	0.01	0.09	0.53	1.73	1.42								
	40	0.05	0.33	0.73	1.29	0.96			40	0.08	0.53	1.08	1.77	1.47								
	50	0.29	0.71	1.05	1.28	0.97			50	0.47	1.05	1.67	1.77	1.51								
	60	0.45	0.82	1.03	1.07	0.86			60	0.64	1.31	1.43	1.43	1.39								
	70	0.43	0.68	-	0.72	0.67			70	0.80	0.93	-	0.93	1.04								
	80	0.35	-	-	0.40	0.45			80	0.20	-	-	0.20	0.66								
Black	0	0.00	0.01	0.01	1.53	1.20		Hispanic <sup>b</sup>	0	0.01	0.01	0.01	2.32	1.65								
	10	0.00	0.01	0.02	1.56	1.23			10	0.00	0.00	0.01	2.34	1.67								
	20	0.00	0.02	0.06	1.57	1.24			20	0.00	0.01	0.08	2.35	1.68								
	30	0.01	0.06	0.44	1.59	1.26			30	0.01	0.08	0.49	2.37	1.69								
	40	0.05	0.44	1.15	1.62	1.28			40	0.07	0.49	1.18	2.39	1.71								
	50	0.41	1.15	1.48	1.64	1.30			50	0.43	1.13	1.80	2.37	1.71								
	60	0.83	1.19	1.35	1.38	1.14			60	0.74	1.45	1.89	2.06	1.56								
	70	0.45	0.65	-	0.69	0.71			70	0.80	1.29	-	1.49	1.25								
	80	0.31	-	-	0.38	0.49			80	0.65	-	-	0.91	0.90								

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.

<sup>a</sup> Underlying incidence and mortality data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.

<sup>b</sup> 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 14.14

## Cancer of the Liver and Intrahepatic Bile Duct (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 Being Diagnosed with Cancer						Risk of Dying from Cancer		Risk of Being Diagnosed with Cancer						
		+10 yrs			+20 yrs			+30 yrs			Ever					+10 yrs			+20 yrs			
All Races	0	0.00	0.01	0.01	0.60	0.52		Asian/	0	0.01	0.01	0.01	1.24	1.17								
	10	0.00	0.00	0.01	0.60	0.52		Pacific	10	0.00	0.00	0.01	1.24	1.18								
	20	0.00	0.01	0.02	0.60	0.52		Islander	20	0.00	0.01	0.03	1.24	1.18								
	30	0.00	0.02	0.10	0.60	0.52			30	0.01	0.03	0.10	1.24	1.18								
	40	0.02	0.09	0.24	0.60	0.52			40	0.02	0.09	0.31	1.24	1.18								
	50	0.08	0.22	0.42	0.60	0.52			50	0.07	0.30	0.69	1.23	1.18								
	60	0.15	0.35	0.50	0.54	0.50			60	0.23	0.63	1.00	1.18	1.15								
	70	0.22	0.38	-	0.43	0.43			70	0.42	0.81	-	1.00	1.05								
	80	0.21	-	-	0.27	0.31			80	0.45	-	-	0.66	0.80								
White	0	0.00	0.01	0.01	0.54	0.49		American	0	0.00	0.00	0.00	1.12	0.90								
	10	0.00	0.00	0.01	0.54	0.49		Indian/	10	0.00	0.00	0.01	1.13	0.91								
	20	0.00	0.01	0.02	0.54	0.49		Alaska	20	0.00	0.01	0.03	1.13	0.91								
	30	0.00	0.02	0.09	0.54	0.49		Native <sup>a</sup>	30	0.01	0.04	0.17	1.14	0.92								
	40	0.02	0.09	0.21	0.54	0.50			40	0.03	0.17	0.41	1.16	0.94								
	50	0.07	0.20	0.38	0.53	0.49			50	0.14	0.40	0.77	1.16	0.95								
	60	0.14	0.32	0.45	0.48	0.47			60	0.27	0.66	1.06	1.08	0.93								
	70	0.20	0.34	-	0.38	0.41			70	0.44	0.87	-	0.89	0.81								
	80	0.18	-	-	0.23	0.29			80	0.57	-	-	0.59	0.66								
Black	0	0.00	0.00	0.01	0.56	0.55		Hispanic <sup>b</sup>	0	0.00	0.00	0.01	1.13	0.96								
	10	0.00	0.00	0.01	0.56	0.56			10	0.00	0.00	0.01	1.13	0.97								
	20	0.00	0.01	0.03	0.57	0.56			20	0.00	0.01	0.02	1.13	0.97								
	30	0.01	0.03	0.14	0.57	0.56			30	0.00	0.02	0.13	1.14	0.98								
	40	0.02	0.14	0.30	0.57	0.56			40	0.02	0.13	0.36	1.14	0.98								
	50	0.12	0.29	0.43	0.56	0.57			50	0.11	0.35	0.76	1.13	0.98								
	60	0.18	0.33	0.44	0.48	0.53			60	0.25	0.67	0.97	1.05	0.95								
	70	0.17	0.29	-	0.34	0.44			70	0.46	0.78	-	0.87	0.84								
	80	0.16	-	-	0.22	0.32			80	0.39	-	-	0.49	0.62								

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.

<sup>a</sup> Underlying incidence and mortality data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.

<sup>b</sup> 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 14.15  
Cancer of the Liver and Intrahepatic Bile Duct (Invasive)

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

SEER Incidence	SEER 18 Areas <sup>b</sup>			SEER 13 Areas <sup>b</sup>			SEER 9 Areas <sup>b</sup>		
	Rate 2010-2014			Trend 2005-2014 <sup>c</sup>			Trend 2005-2014 <sup>d</sup>		
	Rate per 100,000 persons			AAPC (%)			AAPC (%)		
RACE/ETHNICITY	Total	Males	Females	Total	Males	Females	Total	Males	Females
All Races	8.6	13.3	4.6	1.9*	1.5	2.4*	2.7*	2.3*	2.7*
White	7.8	11.9	4.1	2.9*	2.3*	3.8*	3.4*	2.8*	3.9*
White Hispanic <sup>e</sup>	13.8	20.6	7.9	0.8	0.2	2.5*	-	-	-
White Non-Hispanic <sup>e</sup>	6.8	10.4	3.5	3.4*	2.5*	3.8*	-	-	-
Black	10.1	16.7	5.0	1.4	1.3	2.7*	1.5	1.5	2.7*
Asian/Pacific Islander	13.2	20.2	7.6	-1.9*	-2.2	-1.9*	-	-	-
Amer Ind/Alaska Nat <sup>f</sup>	13.3	18.7	8.6	2.4*	2.8*	1.2	-	-	-
Hispanic <sup>e</sup>	13.2	19.7	7.6	0.9	0.3	2.5*	-	-	-
U.S. Mortality <sup>g</sup>	Rate 2010-2014			Trend 2005-2014 <sup>h</sup>			AAPC (%)		
RACE/ETHNICITY	Total	Males	Females	Total	Males	Females	Total	Males	Females
All Races	6.3	9.2	3.7	2.5*	2.5*	2.3*			
White	5.8	8.5	3.5	2.7*	2.6*	2.5*			
White Hispanic <sup>e</sup>	9.6	13.8	6.1	1.9*	1.8*	1.7*			
White Non-Hispanic <sup>e</sup>	5.5	8.0	3.3	2.7*	2.7*	2.2*			
Black	8.2	13.0	4.5	2.4*	2.3*	1.2*			
Asian/Pacific Islander	9.7	14.3	6.1	-0.8*	-0.8*	-0.6*			
Amer Ind/Alaska Nat									
Total U.S.	7.2	10.1	4.7	1.6*	1.8*	1.0			
CHSDA Counties	10.5	14.9	6.9	2.2*	2.6*	1.3			
Non-CHSDA Counties	3.6	4.9	2.3	1.7*	1.6	2.1*			
Hispanic <sup>e</sup>	9.1	13.1	5.8	1.8*	1.7*	1.6*			

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.

<sup>a</sup> Trend based on less than 10 cases for at least one year within the time interval.

<sup>b</sup> 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).

<sup>c</sup> The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta.

<sup>d</sup> The SEER 13 areas comprise the SEER 9 areas plus San Jose-Monterey, Los Angeles, the Alaska Native Registry, and Rural Georgia.

<sup>e</sup> The SEER 18 areas comprise the SEER 13 areas plus California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, and Georgia excluding ATL/RG.

<sup>f</sup> The 2005-2014 AAPC estimates are based on a Joinpoint analysis with up to 4 Joinpoints over diagnosis years 1992-2014.

<sup>g</sup> The 2005-2014 AAPC estimates are based on a Joinpoint analysis with up to 5 Joinpoints over diagnosis years 1975-2014.

<sup>h</sup> 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.

<sup>i</sup> Incidence data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.

<sup>j</sup> US Mortality Files, National Center for Health Statistics, CDC.

<sup>k</sup> 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 14.16  
Cancer of the Liver and Intrahepatic Bile Duct (Invasive)

Age-Adjusted SEER Incidence Rates<sup>a</sup>  
By Registry, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<b>SEER Incidence Rates<sup>a</sup>, 2010-2014</b>									
California	9.73	14.74	5.33	8.84	13.30	4.80	11.17	17.71	5.76
Greater Bay Area	10.98	16.39	6.17	9.19	13.45	5.26	14.09	22.45	6.87
San Francisco-Oakland	11.03	16.68	6.05	9.19	13.70	5.07	14.38	23.32	6.85
San Jose-Monterey	10.89	15.83	6.40	9.17	12.96	5.59	12.73	18.11	-
Los Angeles	9.96	15.12	5.62	9.25	13.78	5.28	9.60	15.51	5.14
Greater California	9.20	14.00	4.90	8.60	13.10	4.50	11.26	17.37	5.82
Connecticut	7.93	12.60	3.97	7.56	12.12	3.66	8.88	13.93	5.06
Detroit	8.04	12.84	4.03	6.62	10.42	3.38	12.58	21.52	6.00
Georgia	7.28	11.34	3.83	6.68	10.21	3.53	7.82	12.88	4.00
Atlanta	7.57	12.01	3.94	5.71	8.63	3.20	9.19	16.04	4.32
Rural Georgia	5.99	10.01	-	6.79	11.53	-	-	-	-
Greater Georgia	7.20	11.12	3.81	7.06	10.83	3.67	6.94	10.90	3.83
Hawaii	11.29	16.83	6.21	8.55	12.29	4.29	-	-	-
Iowa	6.06	9.10	3.38	5.63	8.43	3.18	13.78	20.66	-
Kentucky	7.70	11.68	4.24	7.45	11.28	4.12	10.80	17.84	5.21
Louisiana	8.65	14.17	3.83	7.40	11.81	3.43	11.22	19.72	4.40
New Jersey	7.33	11.58	3.82	6.88	10.84	3.58	8.56	14.15	4.42
New Mexico	9.28	14.41	4.62	8.94	14.26	4.06	7.36	-	-
Seattle-Puget Sound	9.22	13.81	5.06	7.80	11.85	4.08	18.13	26.31	9.98
Utah	5.87	8.51	3.43	5.40	7.95	3.05	18.71	30.14	-
SEER 9 Areas <sup>b</sup>	8.51	13.06	4.53	7.22	11.07	3.76	11.60	19.30	5.63
SEER 13 Areas <sup>b</sup>	8.96	13.66	4.87	7.73	11.72	4.17	11.07	18.25	5.50
SEER 18 Areas <sup>b</sup>	8.62	13.25	4.59	7.76	11.87	4.10	10.14	16.73	4.96

<sup>a</sup> Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130)

<sup>b</sup> 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 14.17  
Cancer of the Liver And Intrahepatic Bile Duct (Invasive)

Age-Adjusted SEER Death Rates<sup>a</sup>  
By Registry, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<b>SEER Death Rates<sup>a</sup>, 2010-2014</b>									
California	7.52	10.97	4.57	6.87	9.98	4.15	8.75	13.27	5.08
Greater Bay Area	7.99	11.72	4.80	6.68	9.64	4.08	10.50	16.63	5.41
San Francisco-Oakland	7.91	11.81	4.65	6.46	9.56	3.82	10.97	17.73	5.55
San Jose-Monterey	8.14	11.53	5.11	7.05	9.75	4.54	7.78	10.41	-
Los Angeles	8.16	12.01	5.04	7.55	10.89	4.75	8.12	12.47	4.91
Greater California	7.07	10.26	4.27	6.67	9.74	3.94	8.45	12.24	5.10
Connecticut	5.64	8.70	3.17	5.34	8.29	2.94	7.97	12.83	4.53
Detroit	6.35	9.76	3.55	5.45	8.12	3.22	9.03	15.35	4.42
Georgia	6.03	9.01	3.60	5.60	8.15	3.41	7.04	11.43	4.02
Atlanta	6.13	9.11	3.78	4.93	6.98	3.26	7.70	12.21	4.60
Rural Georgia	5.30	7.62	-	5.13	7.38	-	-	-	-
Greater Georgia	6.03	9.03	3.55	5.86	8.60	3.49	6.70	11.02	3.73
Hawaii	8.35	12.04	4.97	7.35	11.17	3.13	-	-	-
Iowa	4.87	7.13	2.94	4.64	6.70	2.89	10.51	18.82	-
Kentucky	6.10	8.80	3.78	5.96	8.56	3.73	7.79	11.97	4.36
Louisiana	8.12	12.30	4.62	7.08	10.54	4.14	10.59	16.45	5.90
New Jersey	5.75	8.71	3.41	5.66	8.53	3.35	6.38	10.32	3.62
New Mexico	7.06	10.26	4.18	6.98	10.27	4.02	7.20	-	-
Seattle-Puget Sound	6.74	9.70	4.10	5.88	8.48	3.54	12.37	17.83	7.09
Utah	4.74	6.16	3.39	4.44	5.75	3.20	-	-	-
SEER 9 Areas <sup>b</sup>	6.40	9.44	3.80	5.55	8.13	3.32	8.88	14.46	4.69
SEER 13 Areas <sup>b</sup>	6.87	10.11	4.14	6.03	8.77	3.67	8.63	13.82	4.73
SEER 18 Areas <sup>b</sup>	6.76	9.96	4.05	6.17	9.03	3.71	8.27	13.08	4.61
Total U.S.	6.27	9.25	3.75	5.84	8.53	3.52	8.19	12.99	4.53

<sup>a</sup> 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).

<sup>b</sup> The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah and Atlanta.

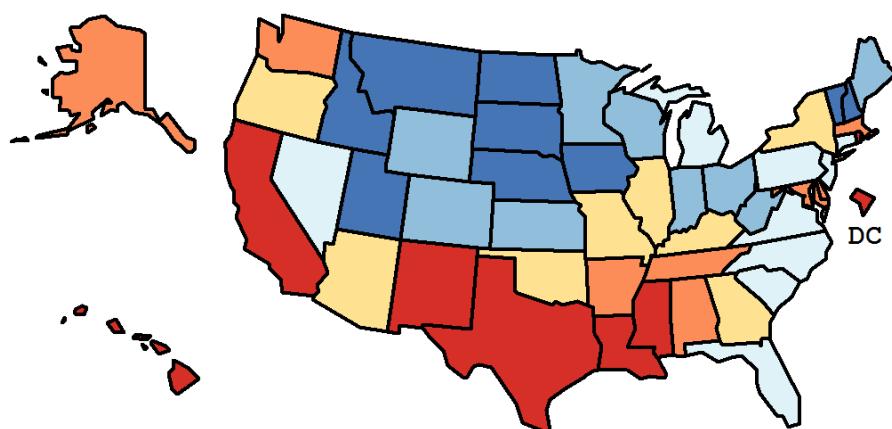
The SEER 13 areas comprise the SEER 9 areas plus San Jose-Monterey, Los Angeles, the Alaska Native Registry and Rural Georgia.

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 14.18  
Cancer of the Liver and Intrahepatic Bile Duct (Invasive)  
Age-Adjusted Cancer Death<sup>a</sup> Rates By State, All Races, 2010-2014

Males and Females									
State	Rate	SE	Rank(CI) <sup>d</sup>	PD	State	Rate	SE	Rank(CI) <sup>d</sup>	PD
TOTAL U.S.	6.27	0.02							
High Five States									
D.C.	9.64	0.56	01(01,03)	53.65 <sup>c</sup>					
Hawaii	8.35	0.32	02(01,06)	33.03 <sup>c</sup>					
Louisiana	8.12	0.18	03(01,05)	29.49 <sup>c</sup>					
Texas	7.98	0.08	04(02,05)	27.25 <sup>c</sup>					
California	7.52	0.06	05(04,07)	19.86 <sup>c</sup>					
Low Five States									
Iowa	4.87	0.16	47(38,50)	-22.39 <sup>c</sup>					
Nebraska	4.84	0.22	48(36,51)	-22.85 <sup>c</sup>					
Utah	4.74	0.21	49(38,51)	-24.51 <sup>c</sup>					
Vermont	4.51	0.34	50(34,51)	-28.09 <sup>c</sup>					
North Dakota	3.80	0.31	51(47,51)	-39.43 <sup>c</sup>					
State	Rate	SE	Rank(CI) <sup>d</sup>	PD	State	Rate	SE	Rank(CI) <sup>d</sup>	PD
Alabama	6.57	0.15	12(07,20)	4.63	Montana	4.92	0.28	46(30,51)	-21.58 <sup>c</sup>
Alaska	6.48	0.48	16(04,43)	3.26	Nebraska	4.84	0.22	48(36,51)	-22.85 <sup>c</sup>
Arizona	6.21	0.13	18(11,29)	-1.10	Nevada	5.67	0.20	31(17,43)	-9.56
Arkansas	6.63	0.20	09(06,22)	5.68	New Hampshire	4.96	0.25	44(31,50)	-20.97 <sup>c</sup>
California	7.52	0.06	05(04,07)	19.86 <sup>c</sup>	New Jersey	5.75	0.11	30(21,38)	-8.31
Colorado	5.24	0.14	39(32,48)	-16.48 <sup>c</sup>	New Mexico	7.06	0.25	07(05,17)	12.53
Connecticut	5.64	0.16	32(19,42)	-10.06	New York	6.08	0.07	21(16,28)	-3.17
Delaware	6.57	0.35	11(05,35)	4.76	North Carolina	5.97	0.10	25(16,33)	-4.86
D.C.	9.64	0.56	01(01,03)	53.65 <sup>c</sup>	North Dakota	3.80	0.31	51(47,51)	-39.43 <sup>c</sup>
Florida	5.88	0.07	27(20,33)	-6.23	Ohio	5.59	0.09	35(27,40)	-10.87
Georgia	6.03	0.11	24(15,32)	-3.96	Oklahoma	6.05	0.17	23(12,35)	-3.64
Hawaii	8.35	0.32	02(01,06)	33.03 <sup>c</sup>	Oregon	6.33	0.16	17(08,29)	0.88
Idaho	5.00	0.24	43(31,50)	-20.39 <sup>c</sup>	Pennsylvania	5.88	0.09	28(19,34)	-6.27
Illinois	6.07	0.09	22(15,30)	-3.25	Rhode Island	6.80	0.33	08(05,29)	8.31
Indiana	5.62	0.12	34(23,41)	-10.50	South Carolina	5.90	0.15	26(16,37)	-6.00
Iowa	4.87	0.16	47(38,50)	-22.39 <sup>c</sup>	South Dakota	4.94	0.32	45(26,51)	-21.34 <sup>c</sup>
Kansas	5.35	0.18	38(26,48)	-14.78	Tennessee	6.49	0.13	15(07,22)	3.50
Kentucky	6.10	0.16	20(11,33)	-2.83	Texas	7.98	0.08	04(02,05)	27.25 <sup>c</sup>
Louisiana	8.12	0.18	03(01,05)	29.49 <sup>c</sup>	Utah	4.74	0.21	49(38,51)	-24.51 <sup>c</sup>
Maine	5.19	0.24	40(26,50)	-17.32 <sup>c</sup>	Vermont	4.51	0.34	50(34,51)	-28.09 <sup>c</sup>
Maryland	6.49	0.14	14(07,22)	3.50	Virginia	5.63	0.11	33(24,40)	-10.23
Massachusetts	6.52	0.13	13(07,20)	3.96	Washington	6.62	0.13	10(07,19)	5.48
Michigan	5.83	0.10	29(19,36)	-7.14	West Virginia	5.45	0.21	36(20,47)	-13.16
Minnesota	5.07	0.13	42(36,49)	-19.23 <sup>c</sup>	Wisconsin	5.42	0.13	37(29,44)	-13.56
Mississippi	7.39	0.21	06(03,10)	17.81 <sup>c</sup>	Wyoming	5.09	0.40	41(16,51)	-18.88 <sup>c</sup>
Missouri	6.15	0.13	19(12,31)	-2.02					



**Age-Adjusted Death Rates per 100,000 Quantile Interval**  
█ 6.64 - 9.64  
█ 6.34 - 6.63  
█ 5.98 - 6.33  
█ 5.63 - 5.97  
█ 5.01 - 5.62  
█ 3.80 - 5.00  
█ Suppressed  
**U.S. rate: 6.27**

<sup>a</sup> 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).

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

<sup>c</sup> Absolute percent difference between state rate and total U.S. rate is 15% or more.

<sup>d</sup> 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.

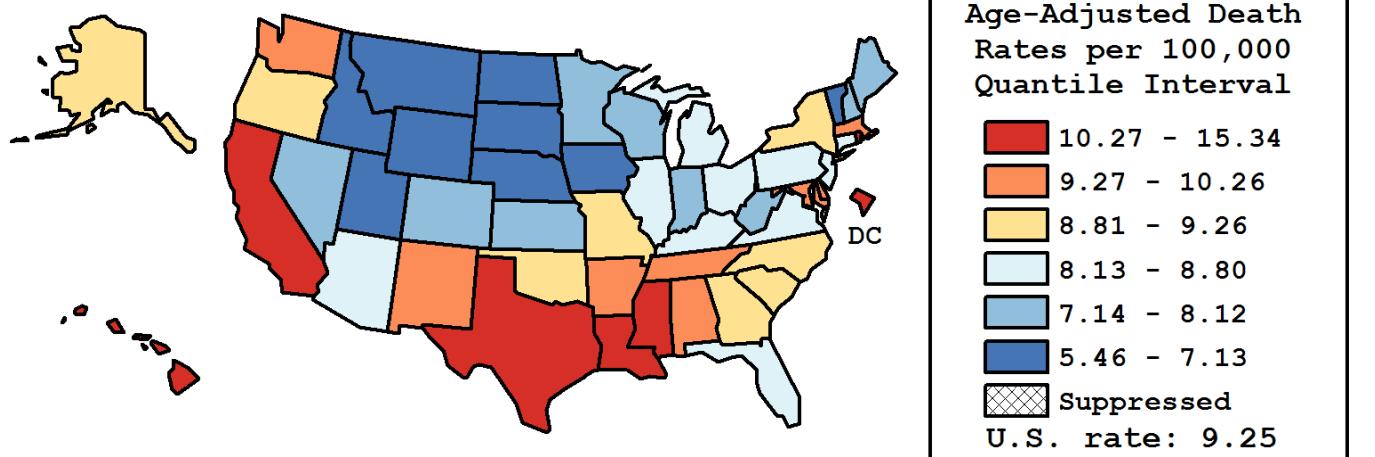
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 14.19  
Cancer of the Liver and Intrahepatic Bile Duct (Invasive)  
Age-Adjusted Cancer Death<sup>a</sup> Rates By State, All Races, 2010-2014

Males									
State	Rate	SE	Rank(CI) <sup>d</sup>	PD	State	Rate	SE	Rank(CI) <sup>d</sup>	PD
TOTAL U.S.	9.25	0.03							
High Five States									
D.C.	15.34	1.08	01(01,02)	65.81 <sup>c</sup>					
Louisiana	12.30	0.33	02(01,05)	32.99 <sup>c</sup>					
Hawaii	12.04	0.57	03(01,08)	30.16 <sup>c</sup>					
Texas	11.77	0.15	04(02,06)	27.31 <sup>c</sup>					
Rhode Island	11.09	0.63	05(02,18)	19.93 <sup>c</sup>					
Low Five States									
Montana	6.74	0.48	47(33,51)	-27.10 <sup>c</sup>					
Wyoming	6.70	0.67	48(24,51)	-27.53 <sup>c</sup>					
South Dakota	6.51	0.54	49(34,51)	-29.64 <sup>c</sup>					
Utah	6.16	0.34	50(43,51)	-33.38 <sup>c</sup>					
North Dakota	5.46	0.54	51(43,51)	-41.02 <sup>c</sup>					

State	Rate	SE	Rank(CI) <sup>d</sup>	PD	State	Rate	SE	Rank(CI) <sup>d</sup>	PD
Alabama	9.64	0.28	14(07,26)	4.22	Montana	6.74	0.48	47(33,51)	-27.10 <sup>c</sup>
Alaska	9.24	0.82	17(04,46)	-0.14	Nebraska	7.08	0.39	44(33,50)	-23.41 <sup>c</sup>
Arizona	8.77	0.22	26(15,35)	-5.22	Nevada	7.74	0.34	37(24,47)	-16.31 <sup>c</sup>
Arkansas	9.95	0.36	11(05,24)	7.58	New Hampshire	7.86	0.47	36(17,49)	-14.99
California	10.97	0.11	06(04,09)	18.62 <sup>c</sup>	New Jersey	8.71	0.20	28(16,35)	-5.82
Colorado	7.55	0.25	40(32,47)	-18.39 <sup>c</sup>	New Mexico	10.26	0.43	08(04,22)	10.91
Connecticut	8.70	0.31	29(13,38)	-5.89	New York	9.09	0.14	20(14,28)	-1.76
Delaware	10.05	0.64	10(03,33)	8.66	North Carolina	9.20	0.20	18(11,29)	-0.56
D.C.	15.34	1.08	01(01,02)	65.81 <sup>c</sup>	North Dakota	5.46	0.54	51(43,51)	-41.02 <sup>c</sup>
Florida	8.80	0.12	25(18,32)	-4.88	Ohio	8.28	0.16	33(25,39)	-10.45
Georgia	9.01	0.21	22(13,32)	-2.63	Oklahoma	8.87	0.30	23(12,36)	-4.07
Hawaii	12.04	0.57	03(01,08)	30.16 <sup>c</sup>	Oregon	9.26	0.29	16(09,31)	0.12
Idaho	7.02	0.42	46(32,51)	-24.06 <sup>c</sup>	Pennsylvania	8.73	0.16	27(17,33)	-5.56
Illinois	8.70	0.17	30(17,34)	-5.97	Rhode Island	11.09	0.63	05(02,18)	19.93 <sup>c</sup>
Indiana	8.12	0.22	34(24,41)	-12.19	South Carolina	9.08	0.27	21(11,33)	-1.86
Iowa	7.13	0.29	43(35,50)	-22.88 <sup>c</sup>	South Dakota	6.51	0.54	49(34,51)	-29.64 <sup>c</sup>
Kansas	7.57	0.32	39(29,48)	-18.12 <sup>c</sup>	Tennessee	9.79	0.24	13(07,20)	5.84
Kentucky	8.80	0.28	24(13,36)	-4.84	Texas	11.77	0.15	04(02,06)	27.31 <sup>c</sup>
Louisiana	12.30	0.33	02(01,05)	32.99 <sup>c</sup>	Utah	6.16	0.34	50(43,51)	-33.38 <sup>c</sup>
Maine	7.40	0.43	41(25,50)	-19.99 <sup>c</sup>	Vermont	7.05	0.63	45(21,51)	-23.78 <sup>c</sup>
Maryland	9.88	0.27	12(07,21)	6.84	Virginia	8.35	0.21	32(20,39)	-9.71
Massachusetts	10.12	0.24	09(06,17)	9.42	Washington	9.50	0.23	15(08,26)	2.67
Michigan	8.35	0.18	31(23,38)	-9.69	West Virginia	8.02	0.38	35(18,46)	-13.25
Minnesota	7.19	0.23	42(36,49)	-22.24 <sup>c</sup>	Wisconsin	7.73	0.23	38(31,45)	-16.38 <sup>c</sup>
Mississippi	10.76	0.39	07(03,14)	16.37 <sup>c</sup>	Wyoming	6.70	0.67	48(24,51)	-27.53 <sup>c</sup>
Missouri	9.16	0.24	19(11,31)	-0.97					



<sup>a</sup> 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).

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

<sup>c</sup> Absolute percent difference between state rate and total U.S. rate is 15% or more.

<sup>d</sup> 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.

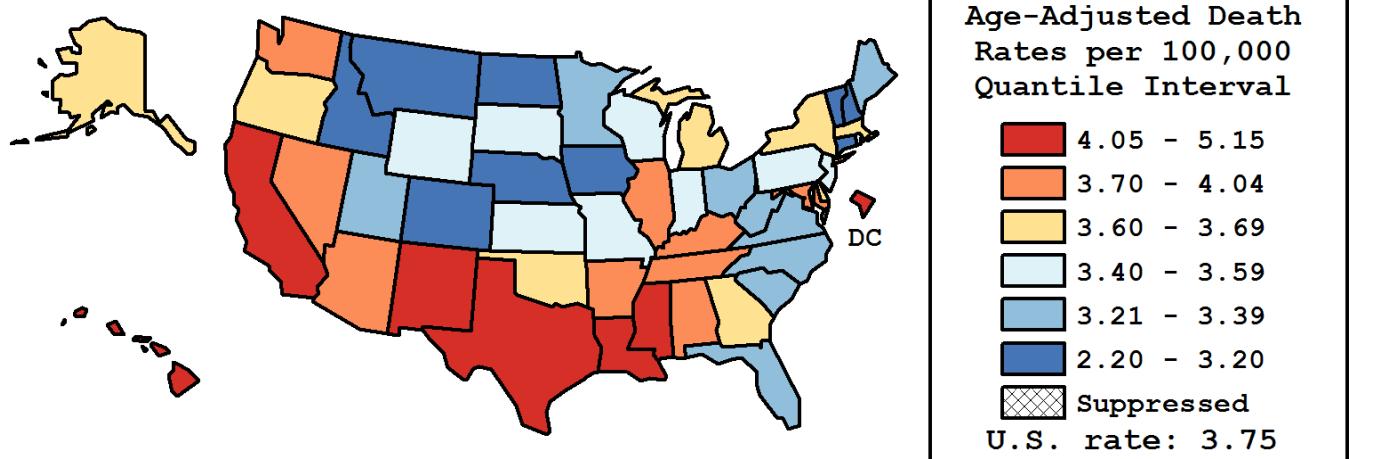
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 14.20  
Cancer of the Liver and Intrahepatic Bile Duct (Invasive)  
Age-Adjusted Cancer Death<sup>a</sup> Rates By State, All Races, 2010-2014

Females									
State	Rate	SE	Rank(CI) <sup>d</sup>	PD	State	Rate	SE	Rank(CI) <sup>d</sup>	PD
TOTAL U.S.	3.75	0.02							
High Five States									
D.C.	5.15	0.54	01(01,24)	37.44 <sup>c</sup>					
Hawaii	4.97	0.34	02(01,11)	32.72 <sup>c</sup>					
Texas	4.69	0.09	03(01,07)	25.13 <sup>c</sup>					
Louisiana	4.62	0.19	04(01,10)	23.21 <sup>c</sup>					
Mississippi	4.59	0.22	05(01,12)	22.36 <sup>c</sup>					
Low Five States									
Nebraska	2.98	0.24	47(16,50)	-20.49 <sup>c</sup>					
Iowa	2.94	0.17	48(30,50)	-21.66 <sup>c</sup>					
New Hampshire	2.40	0.24	49(43,51)	-35.84 <sup>c</sup>					
Vermont	2.31	0.33	50(32,51)	-38.25 <sup>c</sup>					
North Dakota	2.20	0.31	51(40,51)	-41.27 <sup>c</sup>					

State	Rate	SE	Rank(CI) <sup>d</sup>	PD	State	Rate	SE	Rank(CI) <sup>d</sup>	PD
Alabama	4.04	0.16	09(05,26)	7.68	Montana	3.19	0.31	44(08,50)	-14.95
Alaska	3.65	0.53	19(01,50)	-2.52	Nebraska	2.98	0.24	47(16,50)	-20.49 <sup>c</sup>
Arizona	3.94	0.14	10(06,28)	5.07	Nevada	3.77	0.23	14(05,45)	0.63
Arkansas	3.81	0.20	12(06,41)	1.58	New Hampshire	2.40	0.24	49(43,51)	-35.84 <sup>c</sup>
California	4.57	0.07	06(02,08)	21.82 <sup>c</sup>	New Jersey	3.41	0.11	33(16,46)	-9.15
Colorado	3.20	0.15	43(19,49)	-14.67	New Mexico	4.18	0.26	07(01,33)	11.62
Connecticut	3.17	0.17	46(19,49)	-15.36 <sup>c</sup>	New York	3.63	0.08	21(12,35)	-3.09
Delaware	3.69	0.35	17(03,48)	-1.55	North Carolina	3.30	0.11	39(22,47)	-12.03
D.C.	5.15	0.54	01(01,24)	37.44 <sup>c</sup>	North Dakota	2.20	0.31	51(40,51)	-41.27 <sup>c</sup>
Florida	3.37	0.07	36(22,44)	-10.18	Ohio	3.39	0.09	35(18,45)	-9.64
Georgia	3.60	0.12	24(10,41)	-4.02	Oklahoma	3.62	0.18	22(07,45)	-3.51
Hawaii	4.97	0.34	02(01,11)	32.72 <sup>c</sup>	Oregon	3.68	0.17	18(08,43)	-1.75
Idaho	3.17	0.26	45(11,50)	-15.32 <sup>c</sup>	Pennsylvania	3.51	0.09	27(15,42)	-6.48
Illinois	3.92	0.10	11(07,24)	4.45	Rhode Island	3.44	0.32	32(06,49)	-8.36
Indiana	3.51	0.13	28(11,45)	-6.49	South Carolina	3.28	0.15	41(16,48)	-12.61
Iowa	2.94	0.17	48(30,50)	-21.66 <sup>c</sup>	South Dakota	3.47	0.37	29(03,50)	-7.47
Kansas	3.46	0.20	30(09,48)	-7.79	Tennessee	3.71	0.14	16(08,39)	-1.03
Kentucky	3.78	0.17	13(07,39)	0.73	Texas	4.69	0.09	03(01,07)	25.13 <sup>c</sup>
Louisiana	4.62	0.19	04(01,10)	23.21 <sup>c</sup>	Utah	3.39	0.24	34(08,49)	-9.57
Maine	3.36	0.27	37(08,49)	-10.25	Vermont	2.31	0.33	50(32,51)	-38.25 <sup>c</sup>
Maryland	3.75	0.15	15(07,38)	0.11	Virginia	3.35	0.12	38(17,47)	-10.69
Massachusetts	3.61	0.13	23(10,42)	-3.80	Washington	4.04	0.14	08(05,23)	7.76
Michigan	3.64	0.11	20(10,37)	-2.77	West Virginia	3.28	0.23	40(10,49)	-12.58
Minnesota	3.21	0.14	42(21,48)	-14.45	Wisconsin	3.45	0.14	31(13,46)	-7.96
Mississippi	4.59	0.22	05(01,12)	22.36 <sup>c</sup>	Wyoming	3.59	0.48	25(01,50)	-4.22
Missouri	3.57	0.14	26(10,43)	-4.77					



<sup>a</sup> 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).

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

<sup>c</sup> Absolute percent difference between state rate and total U.S. rate is 15% or more.

<sup>d</sup> 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 14.21  
Cancer of the Liver and Intrahepatic Bile Duct (Invasive)

Estimated United States Cancer Prevalence Counts<sup>a</sup> 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 <sup>e</sup>	0 to <39 <sup>e</sup>	>=39 <sup>g</sup>	Complete <sup>h</sup>
<u>Race</u>	<u>Sex</u>										
All Races <sup>b</sup>	Both Sexes	47,284	11,629	4,189	1,463	758	553	65,252	66,219	552	66,771
	Males	34,345	8,130	2,654	843	439	230	46,399	46,820	75	46,895
	Females	12,939	3,499	1,535	620	319	323	18,853	19,399	477	19,876
White <sup>b</sup>	Both Sexes	35,191	8,513	2,977	1,074	575	443	48,271	49,049	574	49,623
	Males	25,746	6,049	1,856	588	340	154	34,567	34,881	356 <sup>i</sup>	35,237
	Females	9,445	2,464	1,121	486	235	289	13,704	14,168	218 <sup>i</sup>	14,386
Black <sup>b</sup>	Both Sexes	6,910	1,201	358	69	81	35	8,607	8,699	+	+
	Males	5,013	774	184	46	23	25	6,039	6,088	+	+
	Females	1,897	427	174	23	58	10	2,568	2,611	+	+
Asian/ Pacific	Both Sexes	4,293	1,647	740	262	+	+	6,976	+	+	+
	Males	2,988	1,185	504	180	+	+	4,888	+	+	+
Islander <sup>c</sup>	Females	1,305	462	236	82	+	+	2,088	+	+	+
Hispanic <sup>d</sup>	Both Sexes	7,053	1,588	592	243	+	+	9,531	+	+	+
	Males	4,971	1,122	367	165	+	+	6,666	+	+	+
	Females	2,082	466	225	78	+	+	2,865	+	+	+

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

Age at Prevalence	All Ages	Age Specific (Crude)								Age-Adjusted <sup>f</sup> All Ages		
		0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79			
<u>Race</u>	<u>Sex</u>											
All Races <sup>c</sup>	Both Sexes	0.0226%	0.0029%	0.0029%	0.0014%	0.0019%	0.0069%	0.0368%	0.0871%	0.0881%	0.0642%	0.0200%
	Males	0.0322%	0.0033%	0.0030%	0.0016%	0.0020%	0.0094%	0.0576%	0.1377%	0.1242%	0.1030%	0.0298%
	Females	0.0133%	0.0024%	0.0028%	0.0013%	0.0017%	0.0044%	0.0168%	0.0414%	0.0585%	0.0409%	0.0116%
White <sup>c</sup>	Both Sexes	0.0195%	0.0031%	0.0031%	0.0015%	0.0018%	0.0053%	0.0319%	0.0743%	0.0660%	0.0456%	0.0165%
	Males	0.0277%	0.0034%	0.0031%	0.0017%	0.0019%	0.0069%	0.0490%	0.1173%	0.0924%	0.0732%	0.0241%
	Females	0.0113%	0.0029%	0.0031%	0.0013%	0.0016%	0.0037%	0.0149%	0.0340%	0.0437%	0.0288%	0.0095%
Black <sup>c</sup>	Both Sexes	0.0186%	0.0012%	0.0008%	0.0013%	0.0019%	0.0050%	0.0352%	0.1135%	0.0735%	0.0389%	0.0192%
	Males	0.0269%	0.0018%	-	0.0014%	0.0022%	0.0061%	0.0509%	0.1903%	0.1116%	0.0736%	0.0302%
	Females	0.0111%	-	-	0.0012%	0.0016%	0.0040%	0.0214%	0.0534%	0.0469%	0.0217%	0.0108%
Asian/ Pacific	Both Sexes	0.0417%	0.0029%	0.0037%	0.0010%	0.0025%	0.0153%	0.0625%	0.1374%	0.2209%	0.1848%	0.0400%
	Males	0.0605%	0.0040%	0.0041%	-	0.0026%	0.0241%	0.1104%	0.2198%	0.3189%	0.2906%	0.0621%
Islander <sup>c</sup>	Females	0.0245%	0.0018%	0.0033%	-	0.0024%	0.0075%	0.0213%	0.0699%	0.1444%	0.1198%	0.0225%
Hispanic <sup>d</sup>	Both Sexes	0.0179%	0.0035%	0.0031%	0.0012%	0.0013%	0.0061%	0.0506%	0.1135%	0.1221%	0.0731%	0.0258%
	Males	0.0248%	0.0043%	0.0034%	0.0011%	0.0015%	0.0093%	0.0801%	0.1813%	0.1656%	0.1076%	0.0384%
	Females	0.0109%	0.0027%	0.0028%	0.0013%	0.0012%	0.0028%	0.0220%	0.0547%	0.0896%	0.0523%	0.0151%

<sup>a</sup> 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.

<sup>b c d</sup> 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

(d) NHIA for Hispanic for SEER 13 Areas excluding the Alaska Native Registry.

<sup>e</sup> 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.

<sup>f g h i</sup> 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.

Table 14.22

## Cancer of the Liver and Intrahepatic Bile Duct (Invasive)

Percent Distribution and Counts by Histology among Histologically Confirmed Cases, 2010-2014  
Both Sexes by Race

Histology <sup>a</sup>	All Races		White		Black		Asian/Pacific Islander		American Indian/Alaska Native <sup>b</sup>		Hispanic <sup>c</sup>	
	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent
Carcinoma (8010-8576)	23,490	97.2%	16,767	97.1%	3,004	97.4%	3,333	97.5%	206	97.2%	4,106	95.9%
Hepatocellular carcinoma <sup>d</sup> (8170-8175)	17,557	72.7%	12,108	70.1%	2,470	80.1%	2,661	77.9%	166	78.3%	3,189	74.5%
Cholangiocarcinoma (8032-8033, 8070-8071, 8140-8141, 8160, 8260, 8480-8481, 8490, 8560)	4,987	20.6%	3,961	22.9%	408	13.2%	560	16.4%	33	15.6%	764	17.8%
Other carcinoma <sup>e</sup>	944	3.9%	697	4.0%	126	4.1%	111	3.2%	-	-	153	3.6%
Other specific carcinoma <sup>f</sup>	610	2.5%	446	2.6%	76	2.5%	81	2.4%	-	-	96	2.2%
Unspecified, Carcinoma, NOS (8010, 8020-8022, 8031, 8046, 8050)	334	1.4%	251	1.5%	50	1.6%	30	0.9%	-	-	57	1.3%
Hepatoblastoma (8970)	243	1.0%	177	1.0%	27	0.9%	30	0.9%	-	-	78	1.8%
Sarcoma <sup>g</sup>	199	0.8%	146	0.8%	21	0.7%	30	0.9%	-	-	36	0.8%
Hemangiosarcoma (9120)	88	0.4%	61	0.4%	-	-	17	0.5%	-	-	-	-
Other sarcomas <sup>h</sup>	111	0.5%	85	0.5%	-	-	-	-	-	-	22	0.5%
Other specific types (8720, 8980, 8991, 9061, 9064, 9070-9071, 9080, 9100)	44	0.2%	34	0.2%	-	-	-	-	-	-	16	0.4%
Unspecified (8000-8004)	183	0.8%	137	0.8%	22	0.7%	21	0.6%	-	-	47	1.1%
Total <sup>d</sup>	24,165	100.0%	17,264	100.0%	3,083	100.0%	3,417	100.0%	212	100.0%	4,283	100.0%

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).

Percents may not sum to 100 due to rounding.

<sup>a</sup> Excludes Kaposi Sarcoma, mesothelioma, lymphomas, leukemias, myelomas, lymphoreticular, and immunoproliferative diseases.

<sup>b</sup> Estimates for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.

<sup>c</sup> Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

<sup>d</sup> Underlying incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

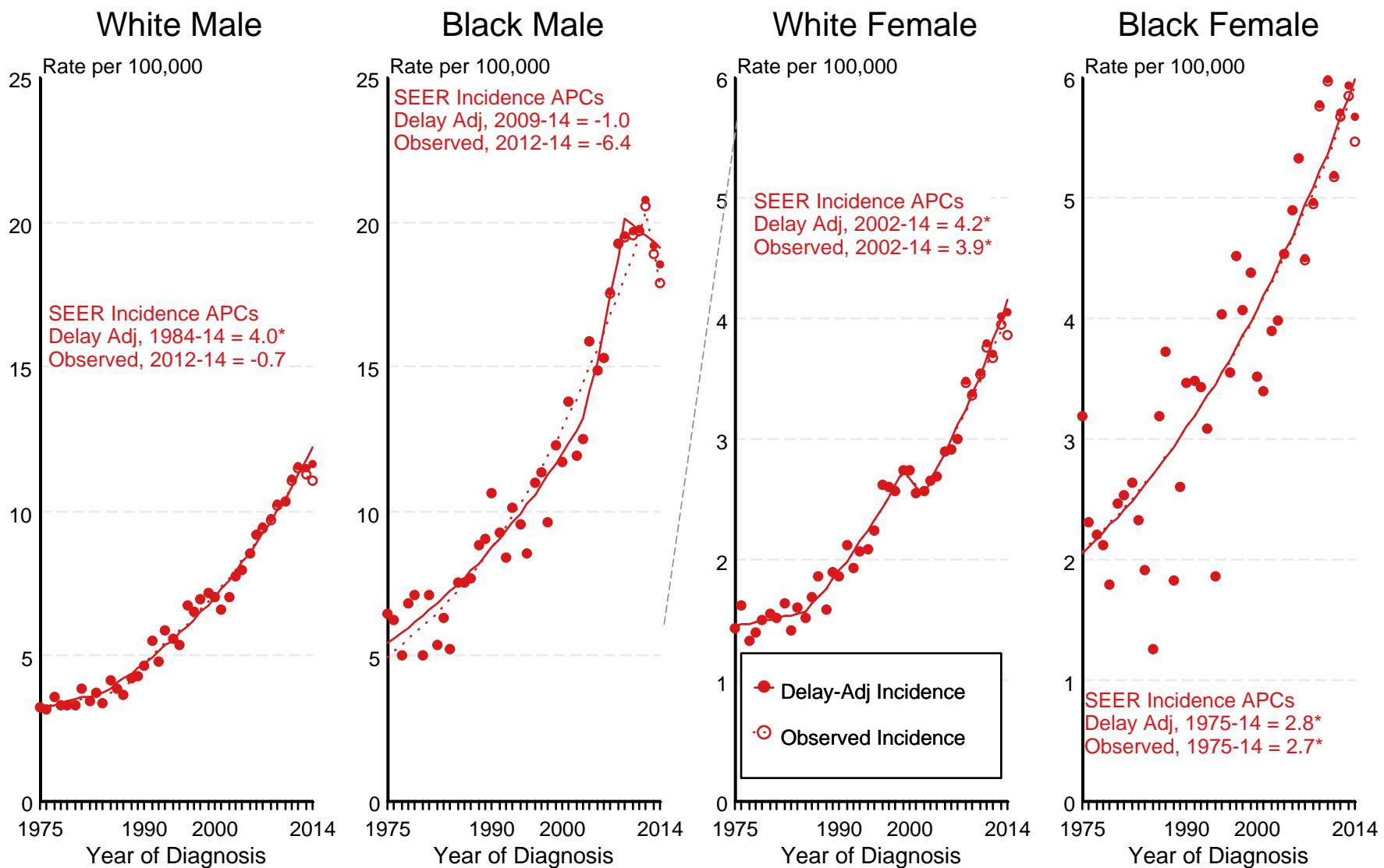
<sup>e</sup> Epidermoid carcinoma arising from liver parenchyma are referred to as hepatocellular carcinoma.

<sup>f</sup> Other carcinoma include histologies 8010, 8012-8013, 8020-8022, 8031, 8035, 8041-8042, 8046, 8050, 8055, 8124, 8124, 8142, 8142, 8154, 8154, 8161-8162, 8180, 8190, 8211, 8240, 8246, 8249, 8255, 8290, 8296, 8299, 8300, 8303, 8306, 8310, 8313, 8316, 8323, 8326, 8337, 8340, 8345, 8350, 8355, 8360, 8364, 8373, 8376, 8380, 8384, 8389, 8394, 8399, 8404, 8409, 8414, 8419, 8424, 8429, 8435, 8440, 8445, 8450, 8455, 8460, 8465, 8470-8471, 8476, 8481, 8486, 8491, 8496, 8501, 8506, 8511, 8516, 8521, 8526, 8531, 8536, 8541, 8546, 8551, 8556, 8561, 8566, 8571, 8576.

<sup>g</sup> Sarcoma includes histologies 8800-8806, 8810, 8815, 8830, 8850, 8852, 8854, 8890-8891, 8894-8896, 8900, 8910, 8920, 8935-8936, 8940, 8943, 8946, 8949, 8952, 8955, 8958, 8961, 8964, 8967, 8970, 8973, 8976, 8979, 8982, 8985, 8988, 8991, 8994-8996, 8999, 9002, 9005, 9008, 9011, 9014, 9017, 9020, 9023, 9026, 9029, 9032, 9035, 9038, 9041, 9044, 9047, 9050, 9053, 9056, 9059, 9062, 9065, 9068, 9071, 9074, 9077, 9080, 9083, 9086, 9089, 9092, 9095, 9098, 9101, 9104, 9107, 9110, 9113, 9116, 9119, 9122, 9125, 9128, 9131, 9134, 9137, 9140, 9143, 9146, 9149, 9152, 9155, 9158, 9161, 9164, 9167, 9170, 9173, 9176, 9179, 9182, 9185, 9188, 9191, 9194, 9197, 9190, 9193, 9196, 9199, 9202, 9205, 9208, 9211, 9214, 9217, 9220, 9223, 9226, 9229, 9232, 9235, 9238, 9241, 9244, 9247, 9250, 9253, 9256, 9259, 9262, 9265, 9268, 9271, 9274, 9277, 9280, 9283, 9286, 9289, 9292, 9295, 9298, 9301, 9304, 9307, 9310, 9313, 9316, 9319, 9322, 9325, 9328, 9331, 9334, 9337, 9340, 9343, 9346, 9349, 9352, 9355, 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Figure 14.1

# SEER Observed Incidence and Delay Adjusted Incidence Rates<sup>a</sup> Cancer of the Liver and Intrahepatic Bile Duct, by Race and Sex



Source: SEER 9 areas.

<sup>a</sup> 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.

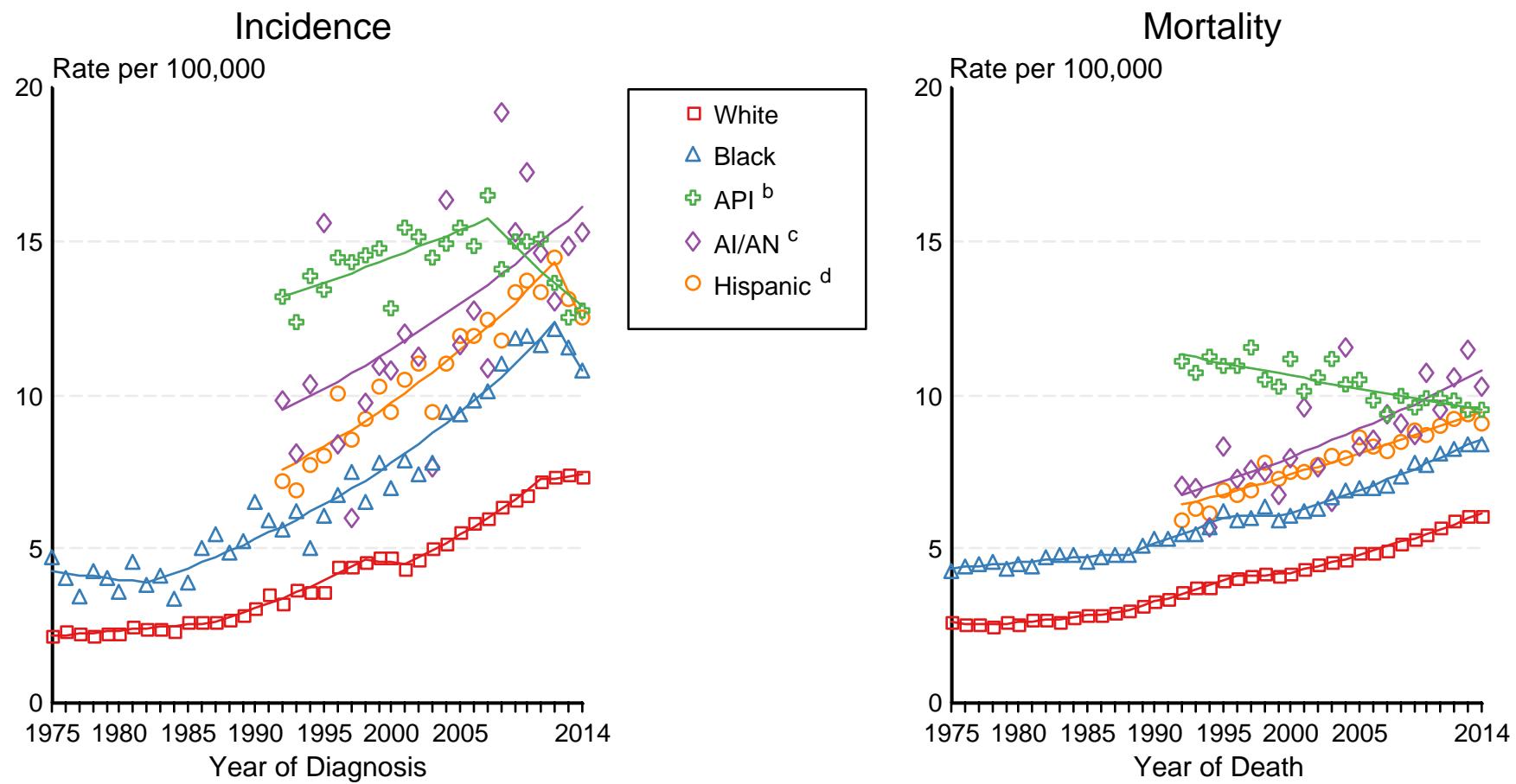
\* The APC is significantly different from zero ( $p < 0.05$ ).

Figure 14.2

# SEER Incidence and US Death Rates<sup>a</sup>

## Cancer of the Liver and Intrahepatic Bile Duct, 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.

<sup>a</sup> 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.

<sup>b</sup> API = Asian/Pacific Islander.

<sup>c</sup> AI/AN = American Indian/Alaska Native. Rates for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.

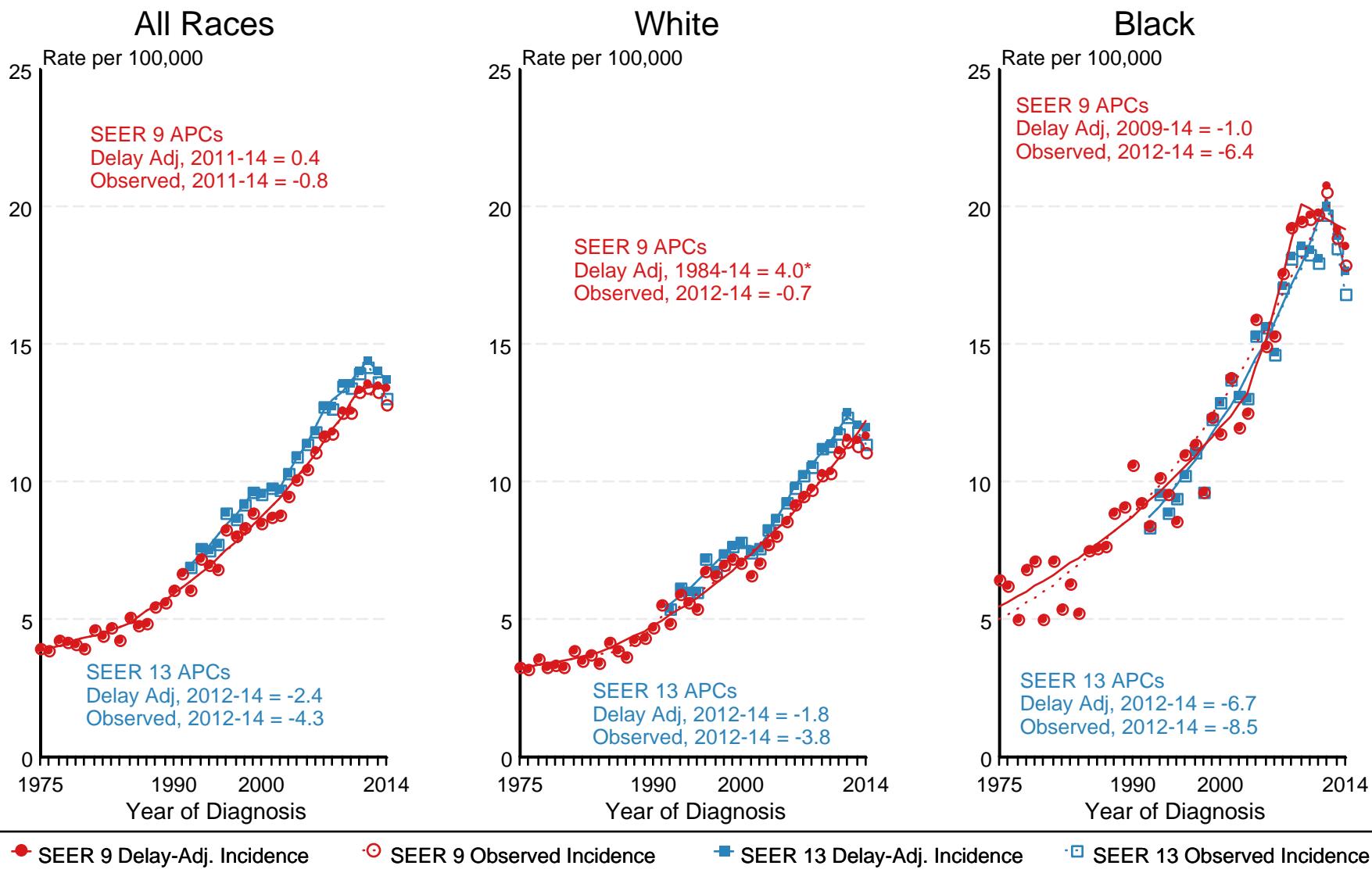
<sup>d</sup> Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry. Mortality data for Hispanics exclude cases from New Hampshire and Oklahoma.

Figure 14.3

# SEER Observed Incidence and SEER Delay Adjusted Incidence Rates<sup>a</sup>

## SEER 9 Areas Compared to SEER 13 Areas

### Cancer of the Liver and Intrahepatic Bile Duct, Male, by Race



Source: SEER 9 areas and SEER 13 areas.

<sup>a</sup> 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.

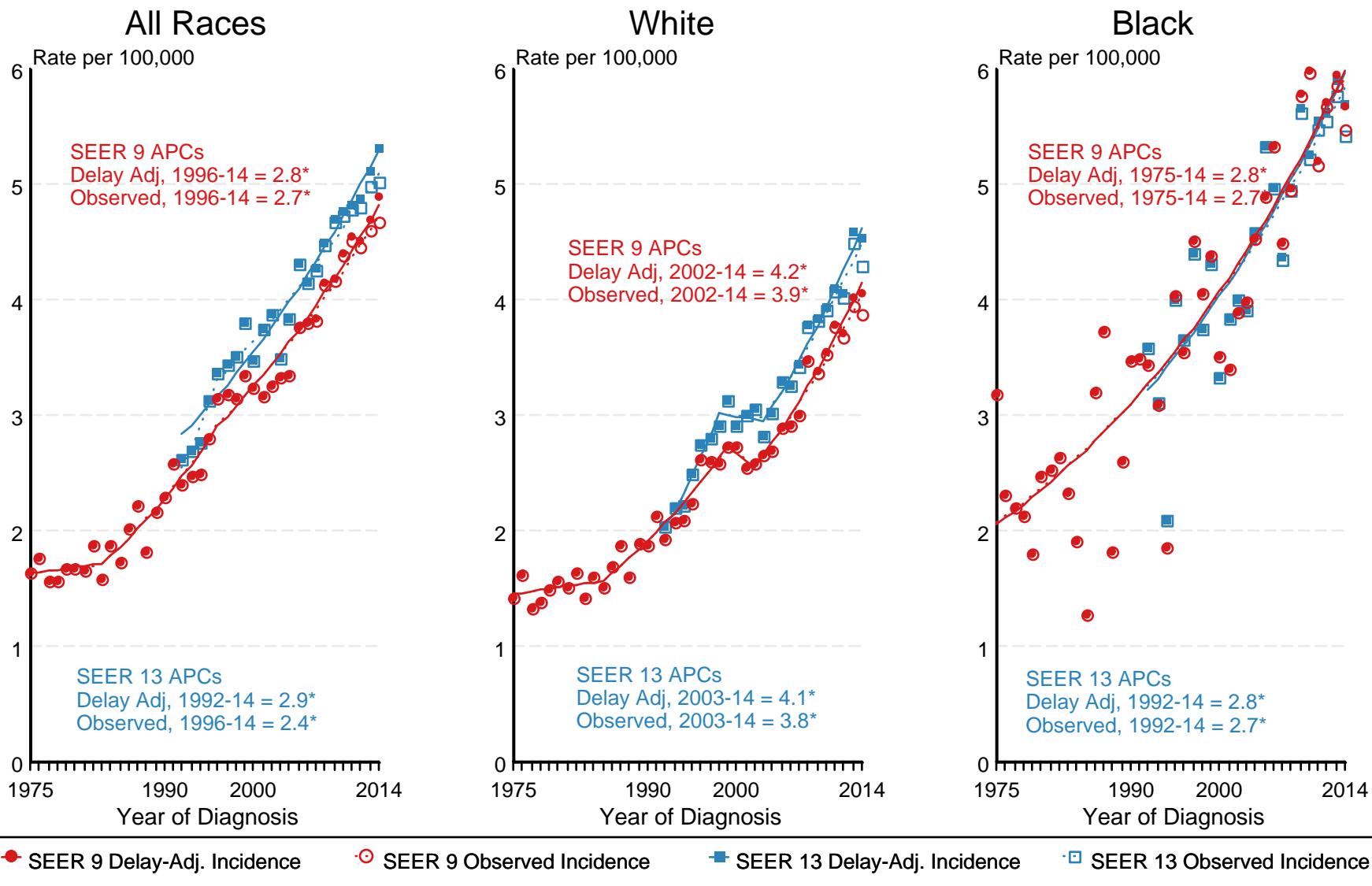
\* The APC is significantly different from zero ( $p < 0.05$ ).

Figure 14.4

# SEER Observed Incidence and SEER Delay Adjusted Incidence Rates<sup>a</sup>

## SEER 9 Areas Compared to SEER 13 Areas

### Cancer of the Liver and Intrahepatic Bile Duct, Female, by Race



Source: SEER 9 areas and SEER 13 areas.

<sup>a</sup> Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).

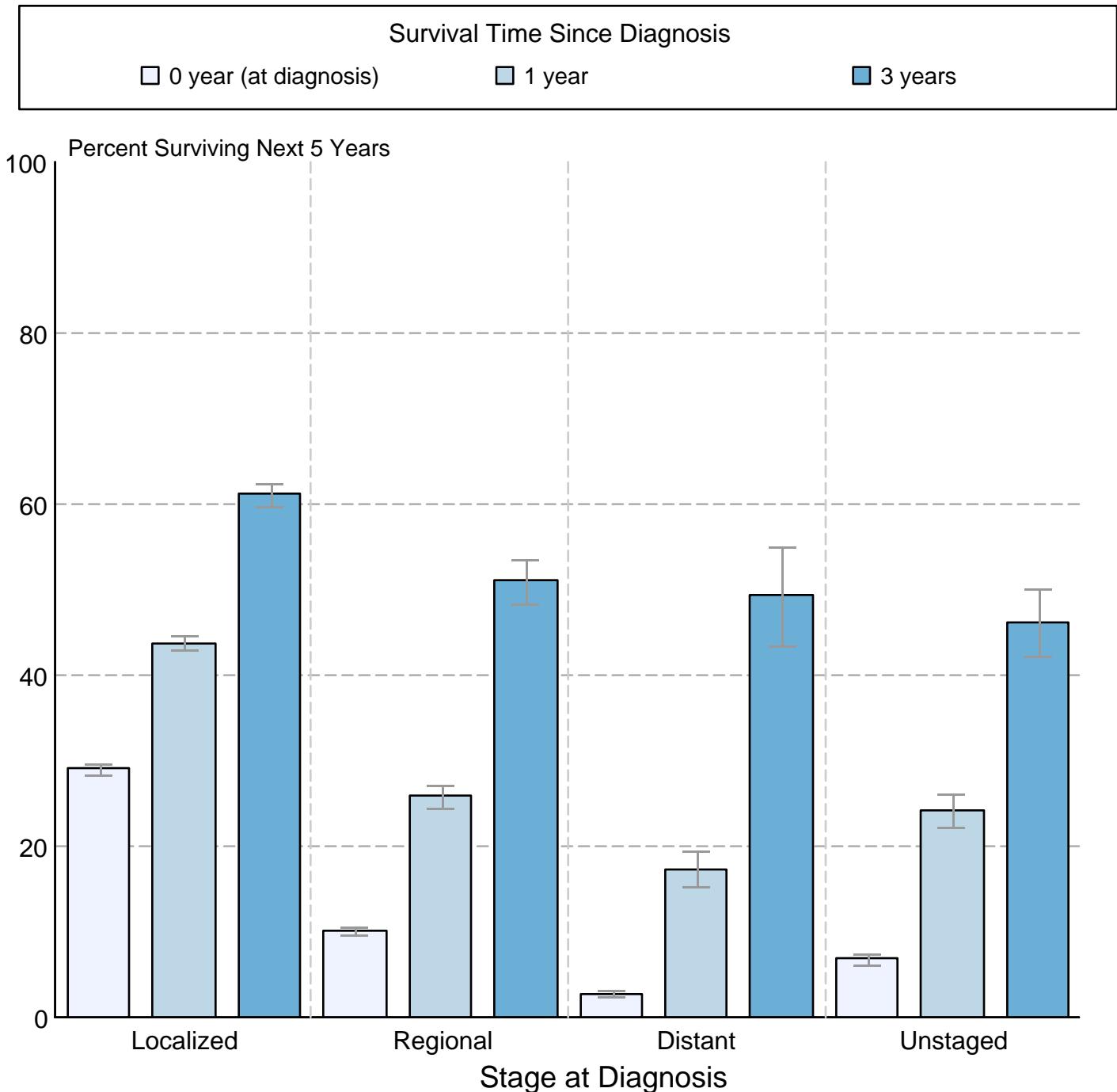
Regression lines and APCs are calculated using the Joinpoint Regression Program Version 4.4, January 2017, National Cancer Institute.

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 14.5

**Cancer of the Liver and Intrahepatic Bile Duct  
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.