

Table 1.23
Age-Adjusted SEER Incidence Rates and Trends for the Top 15 Cancer Sites^a by Race/Ethnicity
Both Sexes

	All Races		White		Black		
	Rate ^b 2012-2016	APC ^c 2007-2016	Rate ^b 2012-2016	APC ^c 2007-2016	Rate ^b 2012-2016	APC ^c 2007-2016	
All Sites	442.0	-1.3*	451.7	-1.3*	442.9	-1.7*	
Breast	68.4	-0.1	69.2	-0.2	Prostate ^f	74.9	-4.9*
Lung and Bronchus	54.9	-2.3*	56.7	-2.3*	Breast	70.9	0.2
Prostate ^f	50.0	-5.5*	47.0	-6.0*	Lung and Bronchus	56.2	-2.6*
Colon and Rectum	38.6	-2.6*	38.1	-2.6*	Colon and Rectum	44.6	-3.1*
Melanoma of the Skin	22.2	1.2*	26.6	1.3*	Kidney and Renal Pelvis	17.4	0.4
Urinary Bladder	20.1	-1.5*	22.2	-1.5*	Corpus and Uterus, NOS ^f	15.6	1.6*
Non-Hodgkin Lymphoma	19.6	-0.7*	20.6	-0.8*	Pancreas	15.2	-0.1
Kidney and Renal Pelvis	16.1	0.3	16.6	0.3	Non-Hodgkin Lymphoma	14.7	-0.3
Thyroid	15.8	2.0*	16.5	1.8*	Myeloma	13.7	0.7
Corpus and Uterus, NOS ^f	14.6	0.9*	14.9	-0.1	Urinary Bladder	11.8	-0.7
Leukemia	14.1	0.0	14.8	0.7*	Leukemia	10.9	0.9
Pancreas	12.9	0.4*	13.0	0.4*	Liver & IBD ^g	10.8	1.2*
Oral Cavity and Pharynx	11.3	0.6*	11.9	0.8*	Stomach	10.3	-2.2*
Liver & IBD ^g	8.8	1.7*	8.0	2.2*	Thyroid	9.6	3.0*
Stomach	7.4	-0.9*	7.0	-0.8*	Oral Cavity and Pharynx	8.6	-1.7*
	Asian/Pacific Islander		American Indian/Alaska Native ^d		Hispanic ^e		
	Rate ^b 2012-2016	APC ^c 2007-2016	Rate ^b 2012-2016	APC ^c 2007-2016	Rate ^b 2012-2016	APC ^c 2007-2016	
All Sites	297.9	-1.2*	307.6	-0.8*	All Sites	345.8	-1.3*
Breast	54.8	1.0*	42.8	-0.3	Breast	52.3	0.4
Lung and Bronchus	36.0	-1.4*	39.3	-0.2	Prostate ^f	41.3	-6.1*
Colon and Rectum	31.8	-3.0*	37.8	-2.0*	Colon and Rectum	33.7	-2.2*
Prostate ^f	24.6	-6.4*	24.6	-6.1*	Lung and Bronchus	29.1	-2.5*
Thyroid	15.6	2.0*	16.8	-1.2	Non-Hodgkin Lymphoma	17.9	-0.5
Non-Hodgkin Lymphoma	13.4	-0.3	13.6	1.1	Kidney and Renal Pelvis	15.7	1.0*
Liver & IBD ^g	13.0	-2.5*	11.3	-1.3	Thyroid	13.9	3.2*
Corpus and Uterus, NOS ^f	11.3	1.4*	10.5	-0.5	Liver & IBD ^g	13.6	0.8
Stomach	10.9	-2.9*	9.5	0.6	Corpus and Uterus, NOS ^f	12.8	2.4*
Pancreas	9.8	0.2	9.3	3.3*	Pancreas	11.3	0.1
Urinary Bladder	8.8	-1.2*	8.9	0.2	Urinary Bladder	11.1	-1.4*
Kidney and Renal Pelvis	8.4	-0.1	8.7	-1.3	Leukemia	10.8	-0.1
Oral Cavity and Pharynx	8.4	0.8	8.6	2.4	Stomach	10.4	-1.8*
Leukemia	7.8	-0.3	8.3	0.9	Oral Cavity and Pharynx	6.9	-1.1*
Ovary ^{fh}	5.1	-0.9	5.5	3.6	Myeloma	6.7	0.5

Source: SEER 21 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

^a Top 15 cancer sites selected based on 2012-2016 age-adjusted rates for the race/ethnic group.

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

^c The APC is the Annual Percent Change over the time interval.

^d Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

^f Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

^g Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

^h The rates for sex-specific cancer sites are calculated using the population for both sexes combined.

ⁱ IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

^j Ovary excludes borderline cases or histologies 8442, 8451, 8462, 8472, and 8473.

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

- 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.

Table 1.24
Age-Adjusted SEER Incidence Rates and Trends for the Top 15 Cancer Sites^a by Race/Ethnicity

			Males					
All Races			White			Black		
	Rate ^b	APC ^c		Rate ^b	APC ^c		Rate ^b	APC ^c
	2012-2016	2007-2016		2012-2016	2007-2016		2012-2016	2007-2016
All Sites	481.0	-2.3*	All Sites	486.0	-2.3*	All Sites	520.8	-3.0*
Prostate	109.5	-5.7*	Prostate	101.9	-6.2*	Prostate	176.7	-5.3*
Lung and Bronchus	63.0	-3.0*	Lung and Bronchus	63.5	-3.0*	Lung and Bronchus	73.5	-3.4*
Colon and Rectum	44.2	-2.8*	Colon and Rectum	43.4	-2.9*	Colon and Rectum	52.4	-3.1*
Urinary Bladder	35.2	-1.7*	Urinary Bladder	38.5	-1.7*	Kidney and Renal Pelvis	24.3	0.4
Melanoma of the Skin	28.8	1.2*	Melanoma of the Skin	33.9	1.2*	Urinary Bladder	19.7	-1.2*
Non-Hodgkin Lymphoma	23.9	-0.7*	Non-Hodgkin Lymphoma	25.0	-0.8*	Liver & IBD ^f	17.8	0.9
Kidney and Renal Pelvis	22.1	0.2	Kidney and Renal Pelvis	22.8	0.3	Non-Hodgkin Lymphoma	17.7	-0.5
Leukemia	18.1	0.0	Leukemia	19.1	-0.2	Pancreas	16.7	-0.2
Oral Cavity and Pharynx	17.0	0.6*	Oral Cavity and Pharynx	17.9	0.9*	Myeloma	16.3	0.2
Pancreas	14.6	0.3	Pancreas	14.8	0.4	Stomach	14.1	-2.7*
Liver & IBD ^f	13.6	1.4*	Liver & IBD ^f	12.2	1.9*	Leukemia	13.9	0.7
Stomach	10.0	-1.5*	Stomach	8.9	-1.4*	Oral Cavity and Pharynx	13.4	-1.8*
Myeloma	8.7	0.8	Thyroid	8.6	2.3*	Larynx	7.6	-2.9*
Thyroid	8.0	2.5*	Brain and ONS ^f	8.3	-0.9*	Esophagus	6.4	-4.8*
Brain and ONS ^f	7.5	-0.9*	Myeloma	8.1	0.7	Brain and ONS ^f	4.7	-0.7
Asian/Pacific Islander			American Indian/Alaska Native^d			Hispanic^e		
	Rate ^b	APC ^c		Rate ^b	APC ^c		Rate ^b	APC ^c
	2012-2016	2007-2016		2012-2016	2007-2016		2012-2016	2007-2016
All Sites	301.1	-2.4*	All Sites	315.3	-1.7*	All Sites	370.4	-2.8*
Prostate	55.6	-6.6*	Prostate	55.4	-6.3*	Prostate	93.4	-6.5*
Lung and Bronchus	46.3	-2.1*	Lung and Bronchus	43.3	-3.3*	Colon and Rectum	40.0	-2.6*
Colon and Rectum	37.9	-2.4*	Colon and Rectum	41.2	-0.8	Lung and Bronchus	35.2	-3.6*
Liver & IBD ^f	19.9	-2.5*	Kidney and Renal Pelvis	21.2	-2.0	Kidney and Renal Pelvis	20.8	0.8
Non-Hodgkin Lymphoma	16.4	-0.5	Liver & IBD ^f	19.3	1.3	Non-Hodgkin Lymphoma	20.7	-0.7
Urinary Bladder	15.5	-1.3*	Urinary Bladder	14.9	-1.4	Liver & IBD ^f	20.3	0.3
Stomach	14.3	-2.9*	Non-Hodgkin Lymphoma	12.0	-3.7	Urinary Bladder	19.5	-1.5*
Kidney and Renal Pelvis	12.0	-0.1	Oral Cavity and Pharynx	11.8	-0.6	Leukemia	13.0	-0.2
Oral Cavity and Pharynx	11.8	0.5	Stomach	11.5	-1.5	Stomach	13.0	-3.0*
Pancreas	10.8	0.3	Pancreas	11.4	2.6	Pancreas	12.0	-0.1
Leukemia	9.7	-0.3	Leukemia	11.0	5.5	Oral Cavity and Pharynx	10.1	-1.3
Thyroid	7.7	3.9*	Myeloma	6.0	-	Myeloma	8.2	0.4
Myeloma	4.9	0.5	Esophagus	5.9	-	Brain and ONS ^f	5.8	-1.0*
Brain and ONS ^f	4.3	-0.5	Melanoma of the Skin	5.8	-	Thyroid	5.7	3.6*
Esophagus	3.6	-0.5	Testis	5.2	4.3	Testis	5.2	1.8*

Source: SEER 21 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

^a Top 15 cancer sites selected based on 2012-2016 age-adjusted rates for the race/ethnic group.

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

^c The APC is the Annual Percent Change over the time interval.

Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

^e 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.

^f IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

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

- 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.

Table 1.25
Age-Adjusted SEER Incidence Rates and Trends for the Top 15 Cancer Sites^a by Race/Ethnicity

Females

	All Races		White		Black	
	Rate ^b 2012-2016	APC ^c 2007-2016	Rate ^b 2012-2016	APC ^c 2007-2016	Rate ^b 2012-2016	APC ^c 2007-2016
All Sites	417.1	-0.3*	430.9	-0.4*	391.3	-0.4*
Breast	127.5	0.1	130.5	-0.1	124.0	0.4
Lung and Bronchus	48.9	-1.7*	51.8	-1.6*	44.6	-1.8*
Colon and Rectum	33.9	-2.5*	33.6	-2.4*	39.1	-3.2*
Corpus and Uterus, NOS	27.5	1.1*	28.1	0.9*	27.4	1.9*
Thyroid	23.3	2.0*	24.5	1.7*	14.3	3.3*
Melanoma of the Skin	17.5	1.1*	21.3	1.3*	14.0	0.0
Non-Hodgkin Lymphoma	16.2	-0.8*	17.0	-0.9*	12.4	0.0
Pancreas	11.5	0.4	11.9	-2.1*	12.1	0.3
Ovary ^g	11.4	-2.0*	11.5	-0.2	11.9	0.9
Kidney and Renal Pelvis	10.9	0.1	11.4	0.4*	9.2	-1.4*
Leukemia	10.9	-0.1	11.3	0.1	8.9	1.1*
Urinary Bladder	8.7	-1.6*	9.5	-1.6*	8.7	-2.9*
Cervix Uteri	7.3	-1.1*	7.2	-1.0*	7.7	-1.9*
Oral Cavity and Pharynx	6.4	0.2	6.6	0.3	6.6	-0.3
Myeloma	5.6	0.9*	6.0	-0.8	5.4	1.8*
	Asian/Pacific Islander		American Indian/Alaska Native ^d		Hispanic ^e	
	Rate ^b 2012-2016	APC ^c 2007-2016	Rate ^b 2012-2016	APC ^c 2007-2016	Rate ^b 2012-2016	APC ^c 2007-2016
All Sites	299.7	-0.2	306.0	0.0	334.9	0.1
Breast	100.1	1.0*	79.5	-0.2	97.2	0.6
Lung and Bronchus	28.2	-0.6	37.9	0.5	28.8	-1.8*
Colon and Rectum	26.9	-3.6*	33.9	-0.7	24.8	-1.3*
Thyroid	22.6	1.5*	19.7	-0.4	24.1	2.7*
Corpus and Uterus, NOS	20.8	1.5*	14.2	3.4*	21.9	3.2*
Non-Hodgkin Lymphoma	11.0	-0.1	13.1	0.0	15.7	-0.1
Ovary ^g	9.4	-0.9	10.6	1.1	11.6	1.0
Pancreas	9.1	0.3	8.5	0.4	10.7	0.3
Stomach	8.2	-3.1*	8.1	-4.4*	10.3	-1.0*
Liver & IBD ^f	7.4	-2.4*	8.0	-1.3	9.3	-2.1*
Cervix Uteri	6.4	-1.3*	7.9	0.7	9.1	-0.2
Leukemia	6.3	-0.6	6.6	-0.9	8.5	-0.5
Oral Cavity and Pharynx	5.6	1.3	6.4	-1.7	7.9	1.7
Kidney and Renal Pelvis	5.5	-0.1	5.3	-	5.5	0.6
Urinary Bladder	3.8	-1.2	5.3	-	5.1	-2.0*

Source: SEER 21 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

^a Top 15 cancer sites selected based on 2012-2016 age-adjusted rates for the race/ethnic group.

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

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Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

^e Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

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^g Ovary excludes borderline cases or histologies 8442, 8451, 8462, 8472, and 8473.

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- 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.

Table 1.26
Age-Adjusted U.S. Death Rates and Trends for the Top 15 Cancer Sites^a by Race/Ethnicity
Both Sexes

	All Races		White		Black	
	Rate ^b 2012-2016	APC ^c 2007-2016	Rate ^b 2012-2016	APC ^c 2007-2016	Rate ^b 2012-2016	APC ^c 2007-2016
All Sites	161.0	-1.5*	161.5	-1.4*	185.6	-2.1*
Lung and Bronchus	41.9	-2.9*	42.7	-2.8*	44.3	-3.3*
Colon and Rectum	14.2	-2.3*	13.8	-2.2*	18.9	-2.9*
Breast	11.4	-1.7*	11.1	-1.7*	16.4	-1.7*
Pancreas	11.0	0.1	10.9	0.2*	14.3	-3.5*
Prostate ^f	7.8	-2.0*	7.4	-1.8*	13.3	-0.5*
Leukemia	6.5	-1.4*	6.8	-1.3*	8.4	1.9*
Liver & IBD ^g	6.5	2.4*	6.1	2.6*	6.2	-0.5
Non-Hodgkin Lymphoma	5.6	-2.2*	5.9	-2.2*	5.5	-3.1*
Brain and ONS ^g	4.4	0.6*	4.8	0.7*	5.5	-1.8*
Urinary Bladder	4.4	-0.2	4.6	0.0	5.0	1.9*
Esophagus	4.0	-1.0*	4.2	-0.4*	4.1	-1.6*
Ovary ^f	3.9	-2.5*	4.0	-2.5*	3.6	-1.8*
Kidney and Renal Pelvis	3.8	-1.0*	3.9	-0.8*	3.6	-1.5*
Myeloma	3.3	-0.4	3.1	-0.4	3.5	-0.6
Stomach	3.1	-2.0*	2.9	-1.7*	3.3	-4.7*
	Asian/Pacific Islander		American Indian/Alaska Native ^d		Hispanic ^e	
	Rate ^b 2012-2016	APC ^c 2007-2016	Rate ^b 2012-2016	APC ^c 2007-2016	Rate ^b 2012-2016	APC ^c 2007-2016
All Sites	100.0	-1.4*	146.7	-1.3*	113.5	-1.2*
Lung and Bronchus	22.7	-2.1*	34.8	-2.8*	18.3	-2.7*
Colon and Rectum	9.8	-2.3*	15.6	-1.4	11.2	-2.1*
Liver & IBD ^g	9.3	-1.0*	10.6	2.2*	9.3	1.3*
Pancreas	7.6	-0.2	8.9	0.5	8.5	-0.2
Breast	6.3	-0.2	8.0	-1.0	7.9	-0.8*
Stomach	5.3	-3.3*	7.8	-0.7	6.4	-2.4*
Non-Hodgkin Lymphoma	3.9	-1.3*	5.7	-2.5*	5.1	-2.0*
Leukemia	3.6	-1.6	5.0	-1.5	4.8	-1.9*
Prostate ^f	3.5	-2.3*	4.4	-0.6	4.7	-0.8
Ovary ^f	2.5	-1.1	4.1	-3.3*	3.5	-0.5
Brain and ONS ^g	2.2	3.2*	3.5	0.7	3.0	0.9*
Oral Cavity and Pharynx	2.0	1.0	3.5	-1.3	2.9	-2.0*
Kidney and Renal Pelvis	1.8	-2.0*	3.1	1.3	2.8	-0.2
Urinary Bladder	1.7	0.1	2.4	0.8	2.3	-0.7
Corpus and Uterus, NOS ^f	1.7	2.6*	2.4	-2.2	2.1	2.6*

Source: US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

^a Top 15 cancer sites selected based on 2012-2016 age-adjusted rates for the race/ethnic group.

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

^c The APC is the Annual Percent Change over the time interval.

Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

^e Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

^f The rates for sex-specific cancer sites are calculated using the population for both sexes combined.

^g IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

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Table 1.27
Age-Adjusted U.S. Death Rates and Trends for the Top 15 Cancer Sites^a by Race/Ethnicity

			Males					
All Races			White			Black		
	Rate ^b	APC ^c		Rate ^b	APC ^c		Rate ^b	APC ^c
	2012-2016	2007-2016		2012-2016	2007-2016		2012-2016	2007-2016
All Sites	193.1	-1.8*	All Sites	193.0	-1.6*	All Sites	233.5	-2.8*
Lung and Bronchus	51.6	-3.5*	Lung and Bronchus	51.7	-3.4*	Lung and Bronchus	62.1	-4.0*
Prostate	19.2	-2.7*	Prostate	18.0	-2.5*	Prostate	38.9	-4.2*
Colon and Rectum	16.9	-2.4*	Colon and Rectum	16.5	-2.3*	Colon and Rectum	23.8	-2.9*
Pancreas	12.6	0.1	Pancreas	12.6	0.2*	Pancreas	14.8	-0.4
Liver & IBD ^f	9.6	2.2*	Leukemia	9.1	-1.4*	Liver & IBD ^f	13.2	1.5*
Leukemia	8.8	-1.5*	Liver & IBD ^f	8.9	2.4*	Stomach	8.2	-3.1*
Urinary Bladder	7.6	-0.3*	Urinary Bladder	8.0	-0.2	Myeloma	7.4	-0.8*
Non-Hodgkin Lymphoma	7.3	-2.1*	Non-Hodgkin Lymphoma	7.6	-2.0*	Leukemia	7.2	-2.2*
Esophagus	7.1	-1.1*	Esophagus	7.5	-0.6*	Esophagus	5.6	-5.3*
Kidney and Renal Pelvis	5.5	-0.8*	Brain and ONS ^f	5.8	0.7*	Kidney and Renal Pelvis	5.5	-0.9
Brain and ONS ^f	5.4	0.6*	Kidney and Renal Pelvis	5.7	-0.7*	Urinary Bladder	5.4	-0.1
Stomach	4.2	-2.4*	Melanoma of the Skin	4.3	-1.7*	Non-Hodgkin Lymphoma	5.2	-1.9*
Myeloma	4.2	-0.6*	Myeloma	4.0	-0.5*	Oral Cavity and Pharynx	4.7	-2.1*
Oral Cavity and Pharynx	3.9	0.6*	Oral Cavity and Pharynx	3.8	1.0*	Brain and ONS ^f	3.2	1.2
Melanoma of the Skin	3.7	-2.0*	Stomach	3.7	-2.4*	Larynx	3.1	-3.8*
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Asian/Pacific Islander			American Indian/Alaska Native ^d			Hispanic ^e		
	Rate ^b	APC ^c		Rate ^b	APC ^c		Rate ^b	APC ^c
	2012-2016	2007-2016		2012-2016	2007-2016		2012-2016	2007-2016
All Sites	118.6	-1.9*	All Sites	176.3	-1.2*	All Sites	138.1	-1.6*
Lung and Bronchus	30.2	-2.7*	Lung and Bronchus	42.0	-3.4*	Lung and Bronchus	25.3	-3.6*
Liver & IBD ^f	13.8	-0.9*	Prostate	19.2	-1.2	Prostate	15.8	-2.8*
Colon and Rectum	11.6	-2.4*	Colon and Rectum	19.1	0.7	Colon and Rectum	14.4	-1.9*
Prostate	8.6	-2.5*	Liver & IBD ^f	14.4	1.4	Liver & IBD ^f	13.3	1.2*
Pancreas	8.2	-0.4	Pancreas	9.9	0.3	Pancreas	9.4	-0.2
Stomach	6.8	-3.7*	Kidney and Renal Pelvis	8.1	-2.1	Stomach	6.5	-2.9*
Non-Hodgkin Lymphoma	4.9	-1.3*	Stomach	6.9	-1.2	Non-Hodgkin Lymphoma	6.1	-1.3*
Leukemia	4.7	-1.1	Esophagus	6.2	1.3	Leukemia	6.0	-0.7
Oral Cavity and Pharynx	3.1	1.3	Non-Hodgkin Lymphoma	5.8	2.2	Kidney and Renal Pelvis	5.0	-0.5
Urinary Bladder	2.9	-0.1	Leukemia	5.4	-2.9	Urinary Bladder	3.8	-1.0
Esophagus	2.7	-1.9*	Urinary Bladder	3.9	-0.2	Esophagus	3.7	-2.4*
Kidney and Renal Pelvis	2.7	-2.0*	Oral Cavity and Pharynx	3.7	3.2	Brain and ONS ^f	3.5	0.7
Brain and ONS ^f	2.6	1.9*	Myeloma	3.4	-1.2	Myeloma	3.4	0.0
Myeloma	2.0	-2.2*	Brain and ONS ^f	2.8	-0.9	Oral Cavity and Pharynx	2.4	0.0
Soft Tissue including Heart	1.0	0.3	Larynx	1.6	-	Larynx	1.5	-2.4*

Source: US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

^a Top 15 cancer sites selected based on 2012-2016 age-adjusted rates for the race/ethnic group.

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

^c The APC is the Annual Percent Change over the time interval.

^d Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

^f Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

^g IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

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

- 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.

Table 1.28
Age-Adjusted U.S. Death Rates and Trends for the Top 15 Cancer Sites^a by Race/Ethnicity

Females

All Races	Rate ^b		APC ^c	White	Rate ^b		APC ^c	Black	Rate ^b		APC ^c
	2012-2016	2007-2016			2012-2016	2007-2016			2012-2016	2007-2016	
All Sites	137.7	-1.4*		All Sites	138.3	-1.3*		All Sites	156.0	-1.6*	
Lung and Bronchus	34.4	-2.3*		Lung and Bronchus	35.6	-2.2*		Lung and Bronchus	32.4	-2.5*	
Breast	20.6	-1.5*		Breast	20.1	-1.5*		Breast	28.1	-1.6*	
Colon and Rectum	11.9	-2.4*		Colon and Rectum	11.7	-2.2*		Colon and Rectum	15.5	-3.1*	
Pancreas	9.6	0.1		Pancreas	9.4	0.1		Pancreas	12.2	-0.5*	
Ovary	7.0	-2.3*		Ovary	7.3	-2.3*		Corpus and Uterus, NOS	8.5	2.2*	
Leukemia	4.9	-1.5*		Leukemia	5.1	-1.3*		Ovary	6.1	-1.6*	
Corpus and Uterus, NOS	4.7	2.0*		Non-Hodgkin Lymphoma	4.5	-2.6*		Myeloma	5.4	-0.3	
Non-Hodgkin Lymphoma	4.4	-2.6*		Corpus and Uterus, NOS	4.4	1.8*		Liver & IBD ^f	4.7	2.6*	
Liver & IBD ^f	3.9	2.6*		Brain and ONS ^f	3.9	0.6*		Leukemia	4.4	-1.6*	
Brain and ONS ^f	3.6	0.6*		Liver & IBD ^f	3.7	2.8*		Stomach	3.8	-3.6*	
Myeloma	2.7	-0.4		Kidney and Renal Pelvis	2.4	-1.4*		Cervix Uteri	3.5	-3.1*	
Kidney and Renal Pelvis	2.3	-1.6*		Myeloma	2.4	-0.5		Non-Hodgkin Lymphoma	3.3	-1.3*	
Cervix Uteri	2.3	-0.6*		Urinary Bladder	2.2	-0.4		Urinary Bladder	2.4	-1.4*	
Stomach	2.3	-1.8*		Cervix Uteri	2.2	0.1		Kidney and Renal Pelvis	2.3	-2.5*	
Urinary Bladder	2.1	-0.6*		Stomach	2.0	-1.6*		Brain and ONS ^f	2.1	0.6	
Asian/Pacific Islander				American Indian/Alaska Native ^d				Hispanic ^e			
	Rate ^b	APC ^c		Rate ^b	APC ^c		Rate ^b	APC ^c			
	2012-2016	2007-2016		2012-2016	2007-2016		2012-2016	2007-2016			
All Sites	86.6	-1.0*		All Sites	124.9	-1.5*		All Sites	96.2	-0.9*	
Lung and Bronchus	17.3	-1.3*		Lung and Bronchus	29.4	-2.3*		Breast	14.2	-0.7*	
Breast	11.2	-0.1		Breast	14.3	-0.7		Lung and Bronchus	13.1	-1.6*	
Colon and Rectum	8.4	-2.3*		Colon and Rectum	13.0	-3.4*		Colon and Rectum	8.8	-2.3*	
Pancreas	7.1	0.0		Pancreas	8.0	0.5		Pancreas	7.7	-0.1	
Liver & IBD ^f	5.8	-0.9		Liver & IBD ^f	7.4	2.9		Liver & IBD ^f	6.0	1.4*	
Ovary	4.4	-0.9		Ovary	6.3	-0.8		Ovary	5.2	-1.8*	
Stomach	4.2	-2.9*		Kidney and Renal Pelvis	3.8	-3.3		Stomach	4.0	-1.0*	
Non-Hodgkin Lymphoma	3.1	-1.5*		Stomach	3.6	-1.5		Corpus and Uterus, NOS	3.9	2.8*	
Corpus and Uterus, NOS	3.1	2.8*		Corpus and Uterus, NOS	3.5	0.5		Leukemia	3.8	-0.9	
Leukemia	2.8	-2.4*		Non-Hodgkin Lymphoma	3.3	-3.6		Non-Hodgkin Lymphoma	3.8	-2.7*	
Brain and ONS ^f	1.9	4.5*		Leukemia	3.0	-4.4		Cervix Uteri	2.6	-1.2*	
Cervix Uteri	1.7	-1.1		Myeloma	2.8	3.6		Brain and ONS ^f	2.6	1.1	
Myeloma	1.2	-1.2		Cervix Uteri	2.8	-4.4*		Myeloma	2.3	-0.6	
Oral Cavity and Pharynx	1.2	0.3		Brain and ONS ^f	2.1	-2.3		Kidney and Renal Pelvis	2.3	-0.8	
Kidney and Renal Pelvis	1.1	-2.1		Gallbladder	1.6	-1.2		Urinary Bladder	1.2	-0.1	

Source: US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

^a Top 15 cancer sites selected based on 2012-2016 age-adjusted rates for the race/ethnic group.

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

^c The APC is the Annual Percent Change over the time interval.

^d Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

^f Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

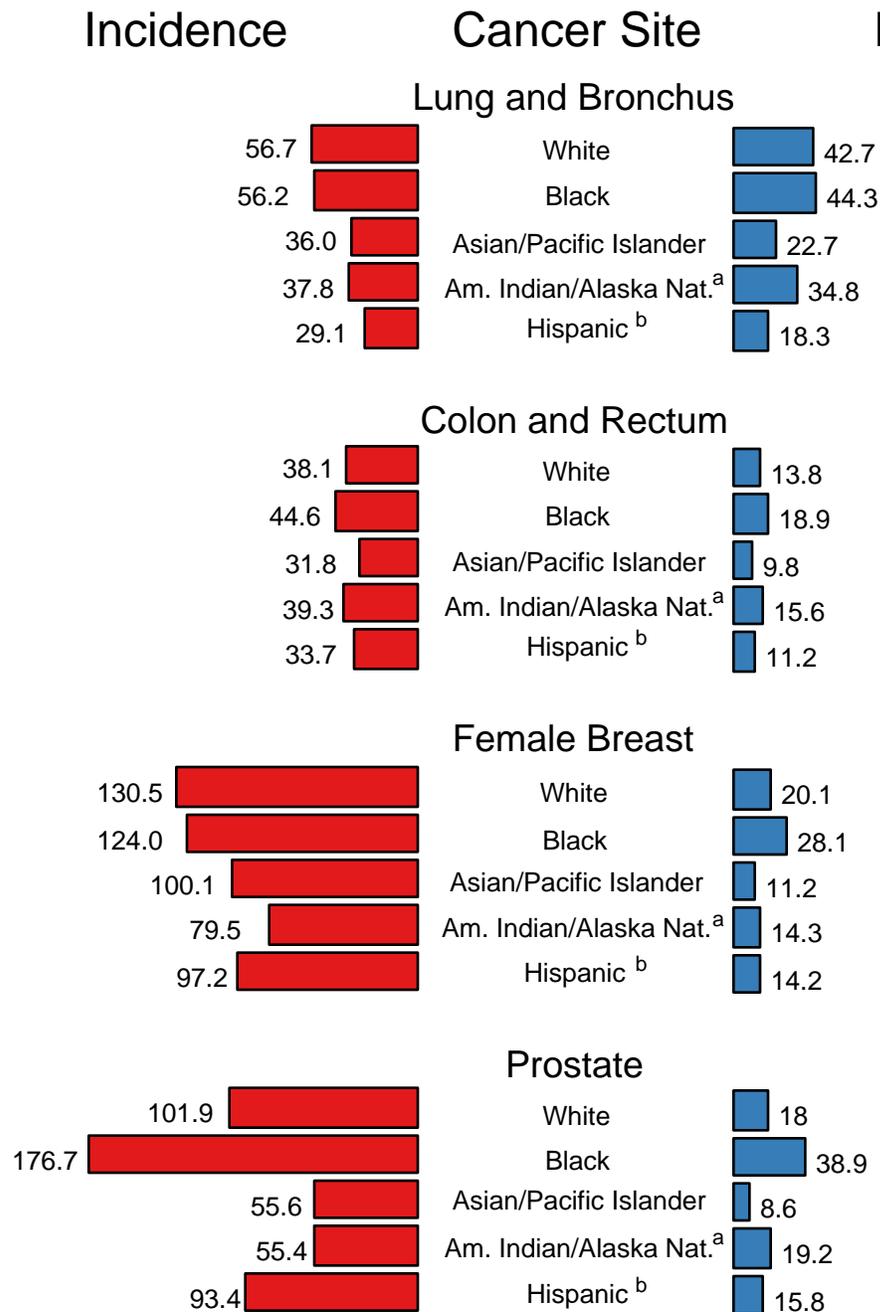
^g IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

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

- 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.

Figure 1.12

SEER Cancer Incidence and US Death Rates, 2012-2016 By Cancer Site and Race/Ethnicity



Source: SEER 21 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts) and US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

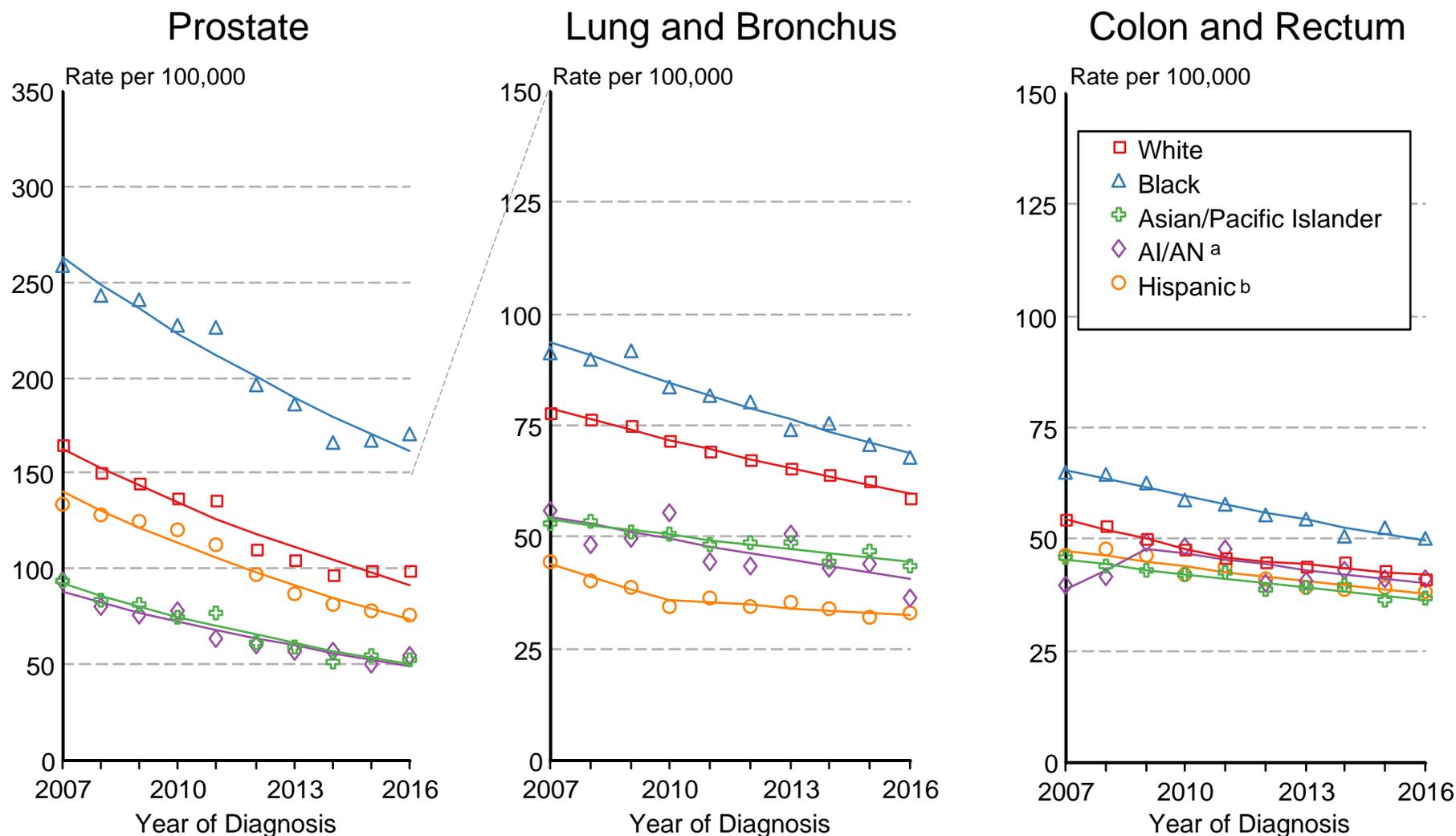
^a Rates for American Indian/Alaska Native are based on the CHSDA (Contract Health Service Delivery Area) counties.

^b Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

Figure 1.13

SEER Incidence 2007-2016 Males by Race/Ethnicity



Source: SEER 21 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG), Idaho, New York and Massachusetts.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).

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

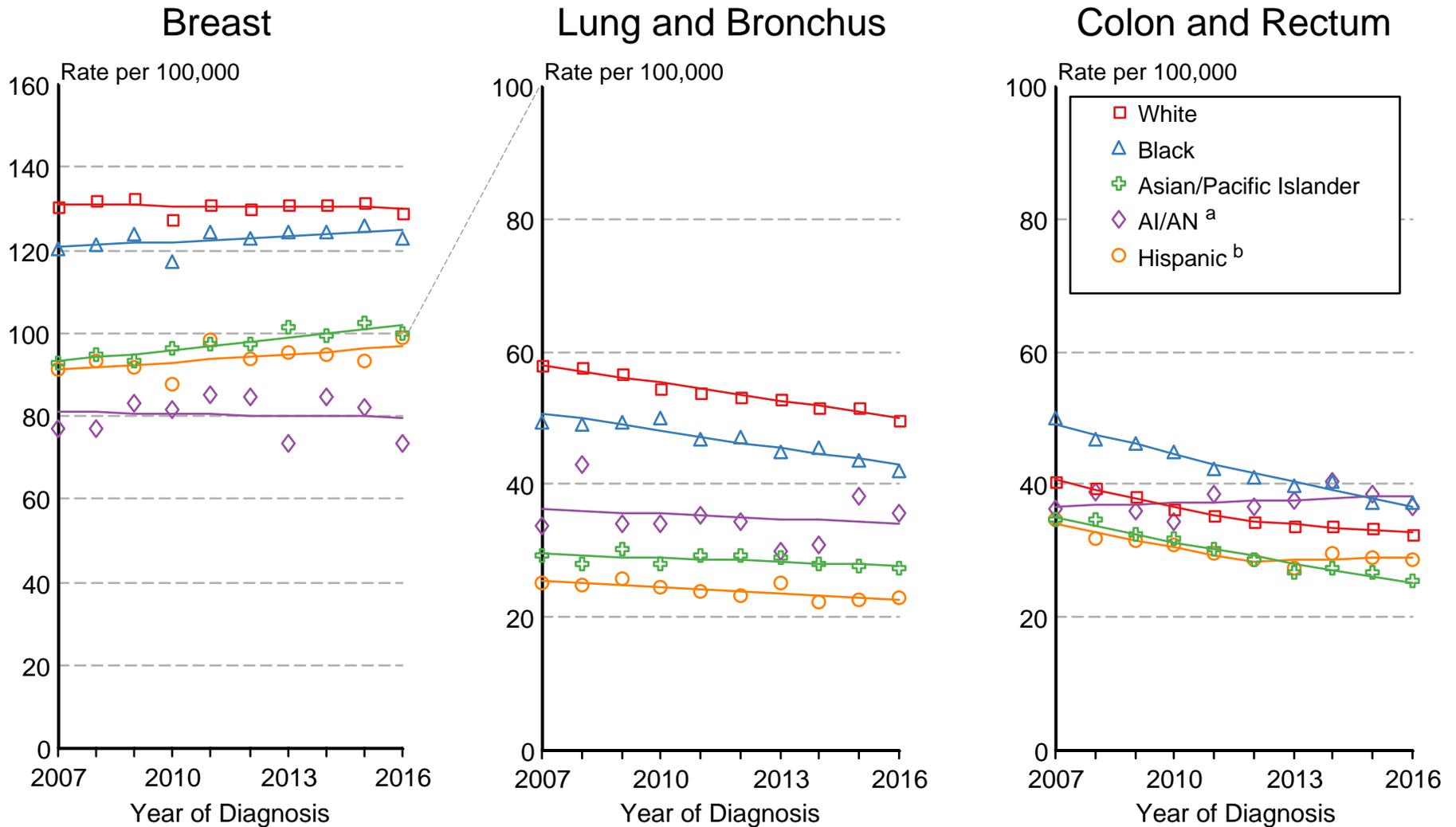
^a Incidence rates for American Indian/Alaska Native (AI/AN) are based on the CHSDA (Contract Health Service Delivery Area) counties.

^b Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

Figure 1.14

SEER Incidence 2007-2016 Females by Race/Ethnicity



Source: SEER 21 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG), Idaho, New York and Massachusetts.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).

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

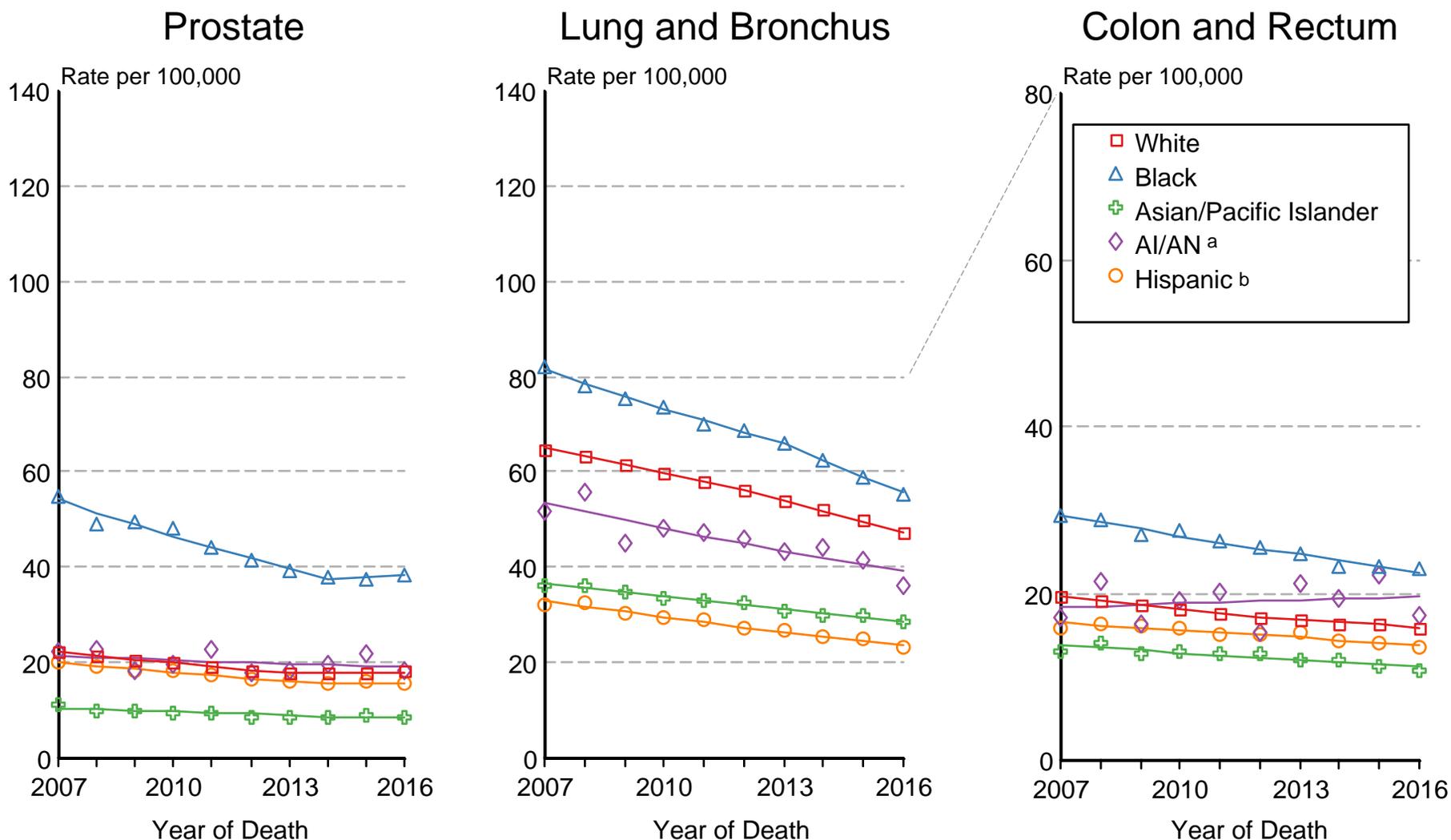
^a Incidence rates for American Indian/Alaska Native (AI/AN) are based on the CHSDA (Contract Health Service Delivery Area) counties.

^b Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

Figure 1.15

US Mortality 2007-2016 Males by Race/Ethnicity



Source: US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).

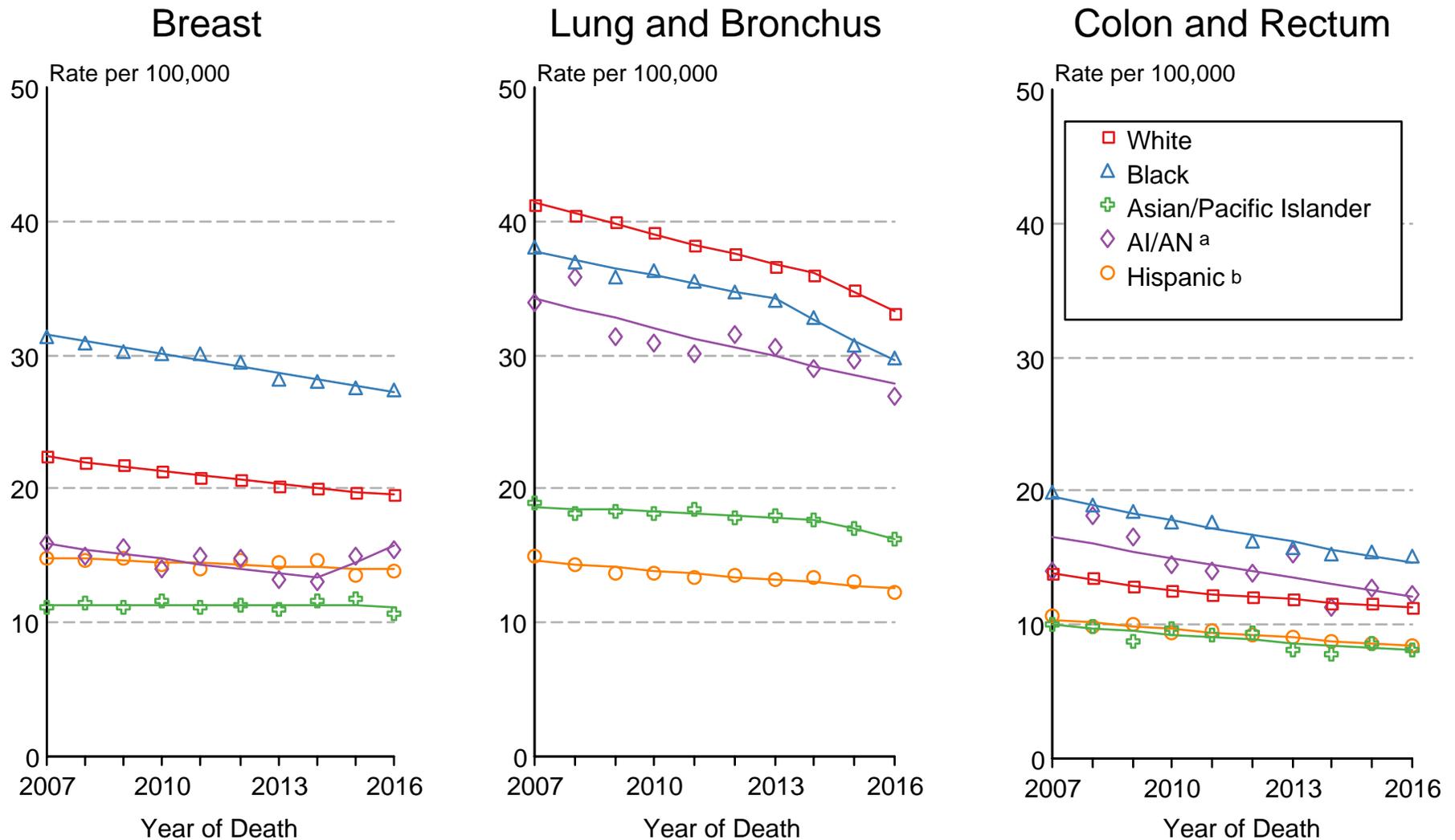
Regression lines are calculated using the Joinpoint Regression Program Version 4.7, February 2019, National Cancer Institute.

^a Mortality rates for American Indian/Alaska Native (AI/AN) 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.

Figure 1.16

US Mortality 2007-2016 Females by Race/Ethnicity



Source: US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).

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

^a Mortality rates for American Indian/Alaska Native (AI/AN) 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.

Table 2.15
All Cancer Sites (Invasive)

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

SEER Incidence	SEER 21 Areas ^b			SEER 21 Areas ^b			SEER 9 Areas ^b		
	Rate 2012-2016			Trend 2007-2016 ^c			Trend 2007-2016 ^d		
	Rate per 100,000 persons			AAPC (%)			AAPC (%)		
Race/Ethnicity	Total	Males	Females	Total	Males	Females	Total	Males	Females
All Races	442.0	481.0	417.1	-1.3*	-2.1*	-0.1*	-1.1*	-2.0*	-0.2*
White	451.7	486.0	430.9	-1.3*	-2.1*	-0.1*	-1.1*	-2.1*	-0.2*
White Hispanic ^e	351.4	372.1	343.9	-1.5*	-3.0*	0.0	-	-	-
White Non-Hispanic ^e	470.1	505.5	448.0	-1.2*	-2.1*	-0.1	-	-	-
Black	442.9	520.8	391.3	-1.5*	-2.7*	-0.3*	-1.7*	-2.9*	-0.6*
Asian/Pacific Islander	297.9	301.1	299.7	-1.0*	-2.2*	0.1	-	-	-
Amer Ind/Alaska Nat ^f	307.6	315.3	306.0	-0.5*	-1.1*	-0.1	-	-	-
Hispanic ^e	345.8	370.4	334.9	-1.2*	-2.6*	0.1	-	-	-
<u>U.S. Mortality^g</u>									
Race/Ethnicity	Rate 2012-2016			Trend 2007-2016 ^h					
	Rate per 100,000 persons			AAPC (%)					
	Total	Males	Females	Total	Males	Females			
All Races	161.0	193.1	137.7	-1.5*	-1.8*	-1.4*			
White	161.5	193.0	138.3	-1.4*	-1.7*	-1.3*			
White Hispanic ^e	120.0	145.8	101.8	-1.1*	-1.5*	-0.9*			
White Non-Hispanic ^e	165.4	197.3	141.9	-1.4*	-1.6*	-1.3*			
Black	185.6	233.5	156.0	-2.1*	-2.7*	-1.6*			
Asian/Pacific Islander	100.0	118.6	86.6	-1.3*	-1.6*	-1.0*			
Amer Ind/Alaska Nat									
Total U.S.	108.8	129.6	93.1	-1.7*	-1.7*	-1.8*			
PRCDA Counties	146.7	176.3	124.9	-0.9*	-0.8*	-1.2*			
Non-PRCDA Counties	65.8	78.0	56.2	-2.5*	-2.8*	-2.4*			
Hispanic ^e	113.5	138.1	96.2	-1.3*	-1.6*	-1.0*			

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

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

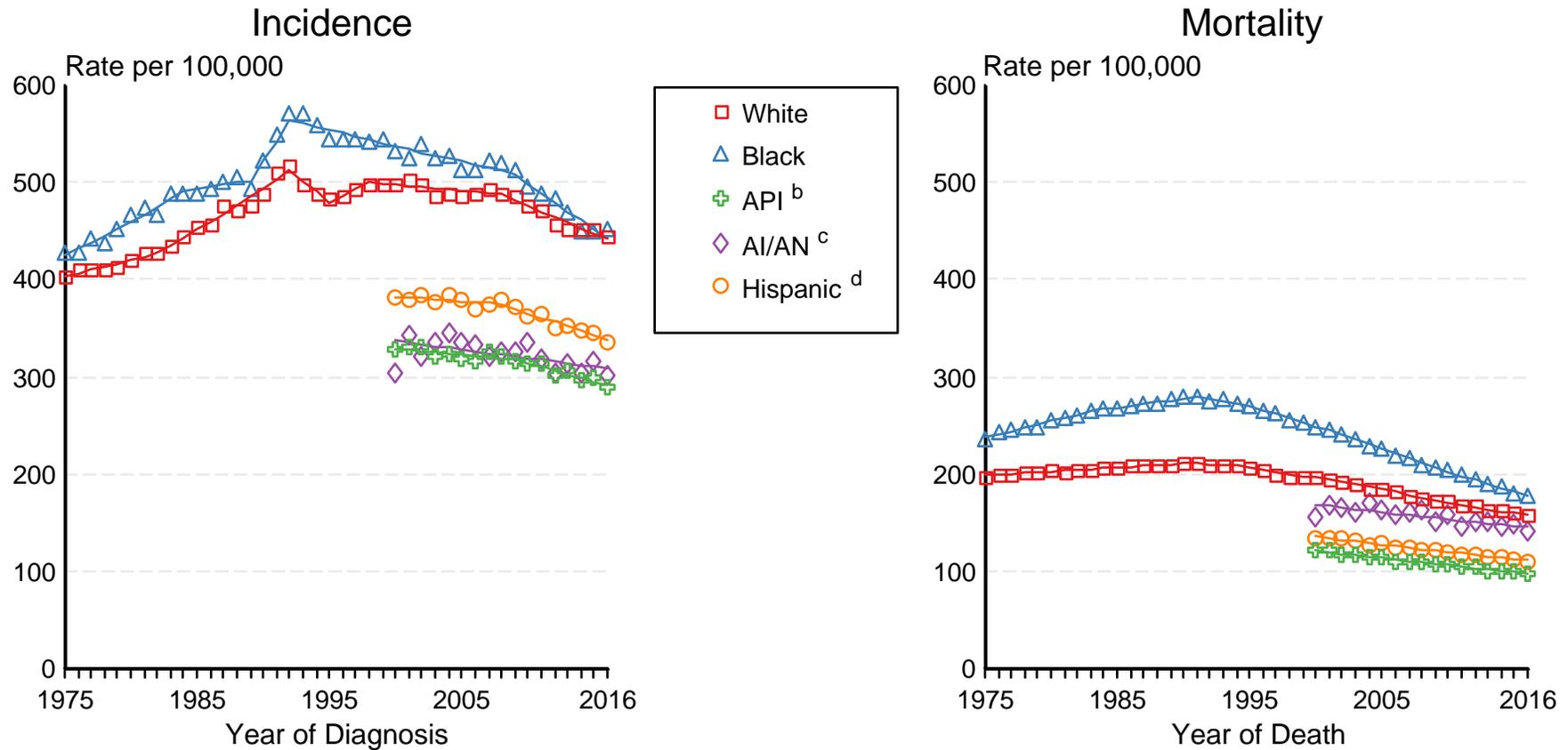
The APC is significantly different from zero (p<.05).

Figure 2.4

SEER Incidence and US Death Rates^a All Cancer Sites, Both Sexes

Joinpoint Analyses for Whites and Blacks from 1975-2016

and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

Regression lines are calculated using the Joinpoint Regression Program Version 4.7, February 2019, National Cancer Institute. Joinpoint analyses for Whites and Blacks during the 1975-2016 period allow a maximum of 5 joinpoints. Analyses for other ethnic groups during the period 1992-2016 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 Purchased/Referred Care Delivery Area (PRCDA) counties.

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

Table 3.15
Cancer of the Brain And Other Nervous System (Invasive)

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

SEER Incidence	SEER 21 Areas ^b Rate 2012-2016			SEER 21 Areas ^b Trend 2007-2016 ^c AAPC (%)			SEER 9 Areas ^b Trend 2007-2016 ^d AAPC (%)		
	Rate per 100,000 persons			Total			Total		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
Race/Ethnicity									
All Races	6.4	7.5	5.4	-0.5*	-1.1*	-0.6*	-0.2*	-0.3*	-1.2
White	7.0	8.3	6.0	-0.4*	-0.5*	-0.4*	-0.1	-0.2*	-1.0
White Hispanic ^e	5.3	6.1	4.6	-0.9*	-0.9*	-0.9*	-	-	-
White Non-Hispanic ^e	7.5	8.9	6.4	-0.2	-0.2	-0.2	-	-	-
Black	3.9	4.7	3.3	-0.7*	-0.3	-1.0*	0.0	-0.2	0.3
Asian/Pacific Islander	3.8	4.3	3.3	0.2	0.2	0.0	-	-	-
Amer Ind/Alaska Nat ^f	3.0	3.7	2.4	-1.0	-0.9	-1.9	-	-	-
Hispanic ^e	5.0	5.8	4.4	-0.9*	-1.0*	-0.9*	-	-	-
U.S. Mortality ^g									
	Rate 2012-2016			Trend 2007-2016 ^h					
	Rate per 100,000 persons			AAPC (%)					
	Total	Males	Females	Total	Males	Females			
Race/Ethnicity									
All Races	4.4	5.4	3.6	0.6*	0.6*	0.5*			
White	4.8	5.8	3.9	0.6*	0.7*	0.6*			
White Hispanic ^e	3.2	3.7	2.7	0.4*	0.3	0.5*			
White Non-Hispanic ^e	5.0	6.1	4.1	0.8*	0.8*	0.7*			
Black	2.6	3.2	2.1	0.1	0.1	0.1			
Asian/Pacific Islander	2.2	2.6	1.9	1.2*	0.2	2.1*			
Amer Ind/Alaska Nat									
Total U.S.	1.9	2.3	1.6	0.2	-0.4	0.6			
PRCDA Counties	2.4	2.8	2.1	0.7	0.7	0.7			
Non-PRCDA Counties	1.4	1.7	1.0	-0.4	3.0	0.4			
Hispanic ^e	3.0	3.5	2.6	0.3	0.1	0.4			

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

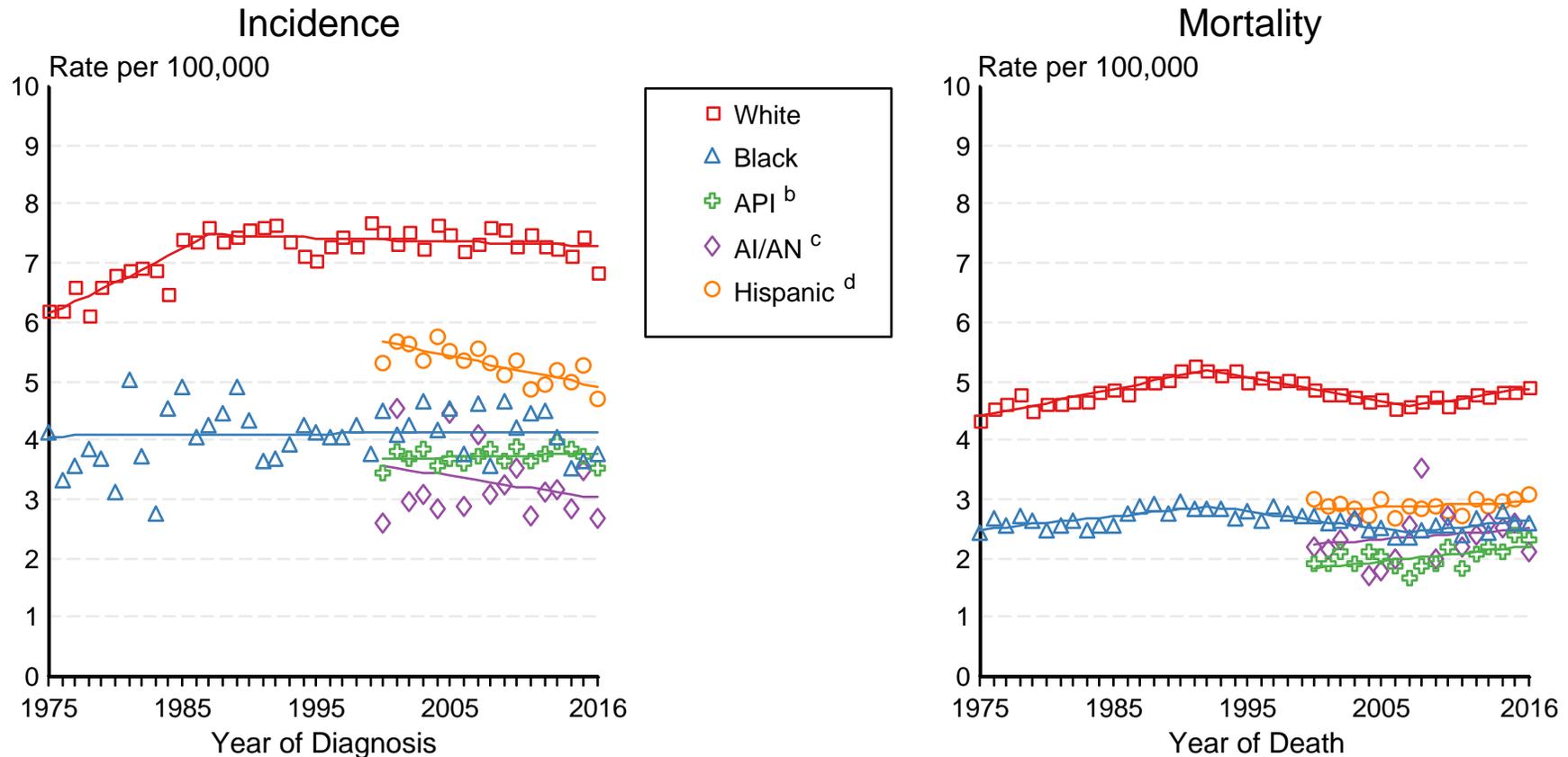
The 2007-2016 mortality AAPCs are based on a Joinpoint analysis using years of death 2000-2016.

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

Figure 3.2

SEER Incidence and US Death Rates^a Cancer of the Brain and Other Nervous System, Both Sexes

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



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

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

^b API = Asian/Pacific Islander.

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

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

Table 4.18
Cancer of the Female Breast (Invasive)

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

SEER Incidence	SEER 21 Areas ^b	SEER 21 Areas ^b	SEER 9 Areas ^b
	Rate 2012-2016	Trend 2007-2016 ^c	Trend 2007-2016 ^d
	Rate per 100,000 persons	AAPC (%)	AAPC (%)
Race/Ethnicity	Females	Females	Females
All Races	127.5	0.2*	0.3*
White	130.5	0.1	0.1
White Hispanic ^e	99.6	0.2*	-
White Non-Hispanic ^e	136.6	0.2	-
Black	124.0	0.6*	0.3*
Asian/Pacific Islander	100.1	0.9*	-
Amer Ind/Alaska Nat ^f	79.5	0.1	-
Hispanic ^e	97.2	0.4*	-
<u>U.S. Mortality^g</u>			
	Rate 2012-2016	Trend 2007-2016 ^h	
	Rate per 100,000 persons	AAPC (%)	
Race/Ethnicity	Females	Females	
All Races	20.6	-1.6*	
White	20.1	-1.6*	
White Hispanic ^e	15.0	-1.0*	
White Non-Hispanic ^e	20.6	-1.6*	
Black	28.1	-1.5*	
Asian/Pacific Islander	11.2	-0.9*	
Amer Ind/Alaska Nat			
Total U.S.	11.4	-0.4	
PRCDA Counties	14.3	-1.1	
Non-PRCDA Counties	8.1	0.9	
Hispanic ^e	14.2	-1.1*	

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

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

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

Table 4.19
Cancer of the Female Breast (*In Situ*)

SEER Incidence
Age-Adjusted Rates and Trends^a
By Race/Ethnicity

SEER Incidence Race/Ethnicity	SEER 21 Areas ^b Rate 2012-2016 Rate per 100,000 persons	SEER 21 Areas ^b Trend 2007-2016 ^c AAPC (%)	SEER 9 Areas ^b Trend 2007-2016 ^d AAPC (%)
	Females	Females	Females
All Races	33.2	-0.6	-0.7
White	33.1	-1.2*	-1.2*
White Hispanic ^e	25.0	0.4	-
White Non-Hispanic ^e	35.0	-1.2*	-
Black	33.3	1.2*	1.1*
Asian/Pacific Islander	32.1	1.1	-
Amer Ind/Alaska Nat ^f	16.8	0.2	-
Hispanic ^e	24.7	0.7	-

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

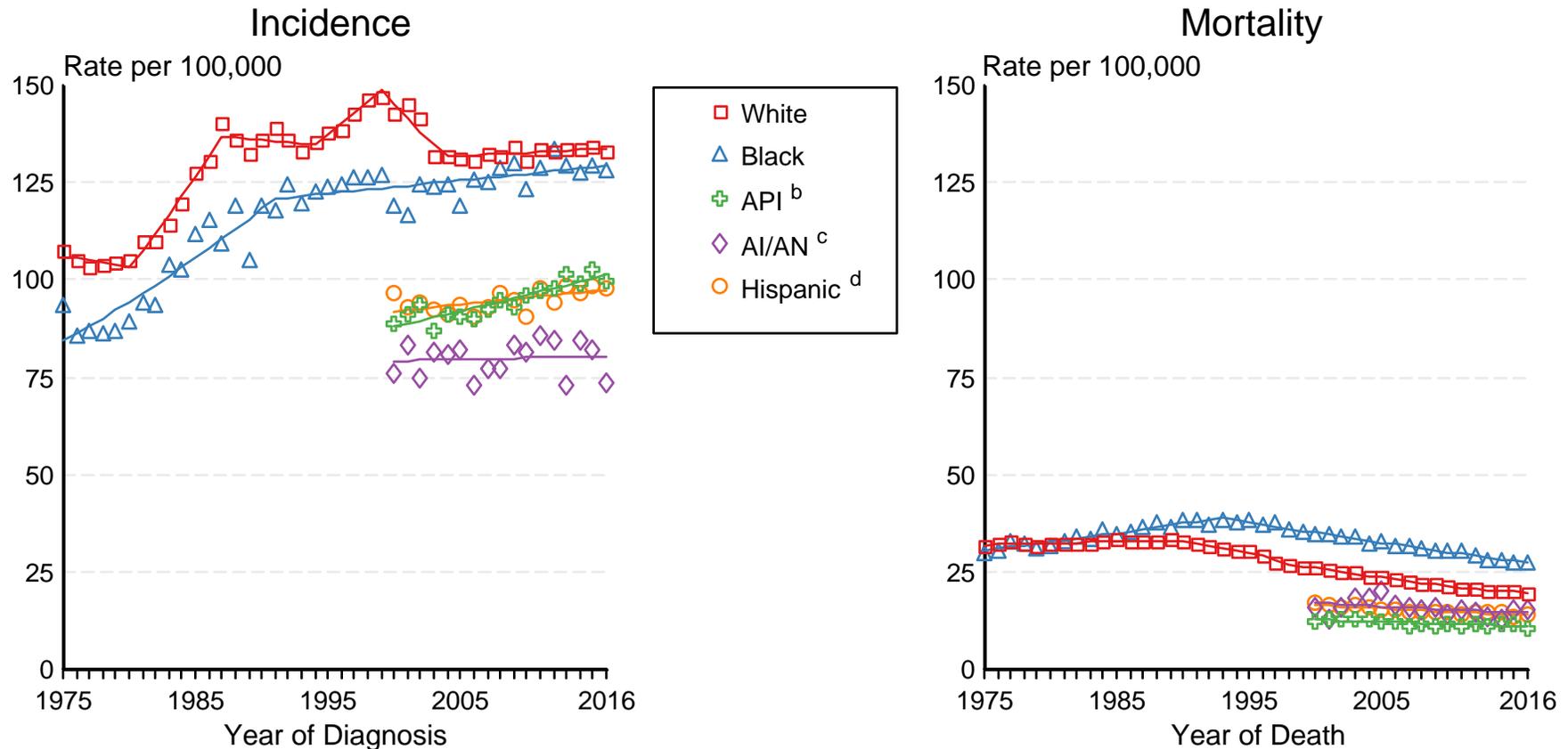
The APC is significantly different from zero ($p < .05$).

Figure 4.4

SEER Incidence and US Death Rates^a Cancer of the Female Breast

Joinpoint Analyses for Whites and Blacks from 1975-2016

and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

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

^b API = Asian/Pacific Islander.

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

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

Table 5.11
Cancer of the Cervix Uteri (Invasive)

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

SEER Incidence	SEER 21 Areas ^b	SEER 21 Areas ^b	SEER 9 Areas ^b
	Rate 2012-2016	Trend 2007-2016 ^c	Trend 2007-2016 ^d
	Rate per 100,000 persons	AAPC (%)	AAPC (%)
Race/Ethnicity	Females	Females	Females
All Races	7.3	-1.0	-0.4
White	7.2	-0.6	-0.1
White Hispanic ^e	9.6	-2.2*	-
White Non-Hispanic ^e	6.6	-0.6*	-
Black	8.7	-2.9*	-3.6*
Asian/Pacific Islander	6.4	-2.3*	-
Amer Ind/Alaska Nat ^f	7.9	0.5	-
Hispanic ^e	9.3	-1.9*	-
<u>U.S. Mortality^g</u>			
	Rate 2012-2016	Trend 2007-2016 ^h	
	Rate per 100,000 persons	AAPC (%)	
Race/Ethnicity	Females	Females	
All Races	2.3	-0.7*	
White	2.2	0.0	
White Hispanic ^e	2.8	-1.2	
White Non-Hispanic ^e	2.1	-0.1	
Black	3.5	-2.7*	
Asian/Pacific Islander	1.7	-2.7*	
Amer Ind/Alaska Nat			
Total U.S.	1.8	-3.2*	
PRCDA Counties	2.8	-2.7*	
Non-PRCDA Counties	0.8	-4.1	
Hispanic ^e	2.6	-1.4*	

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

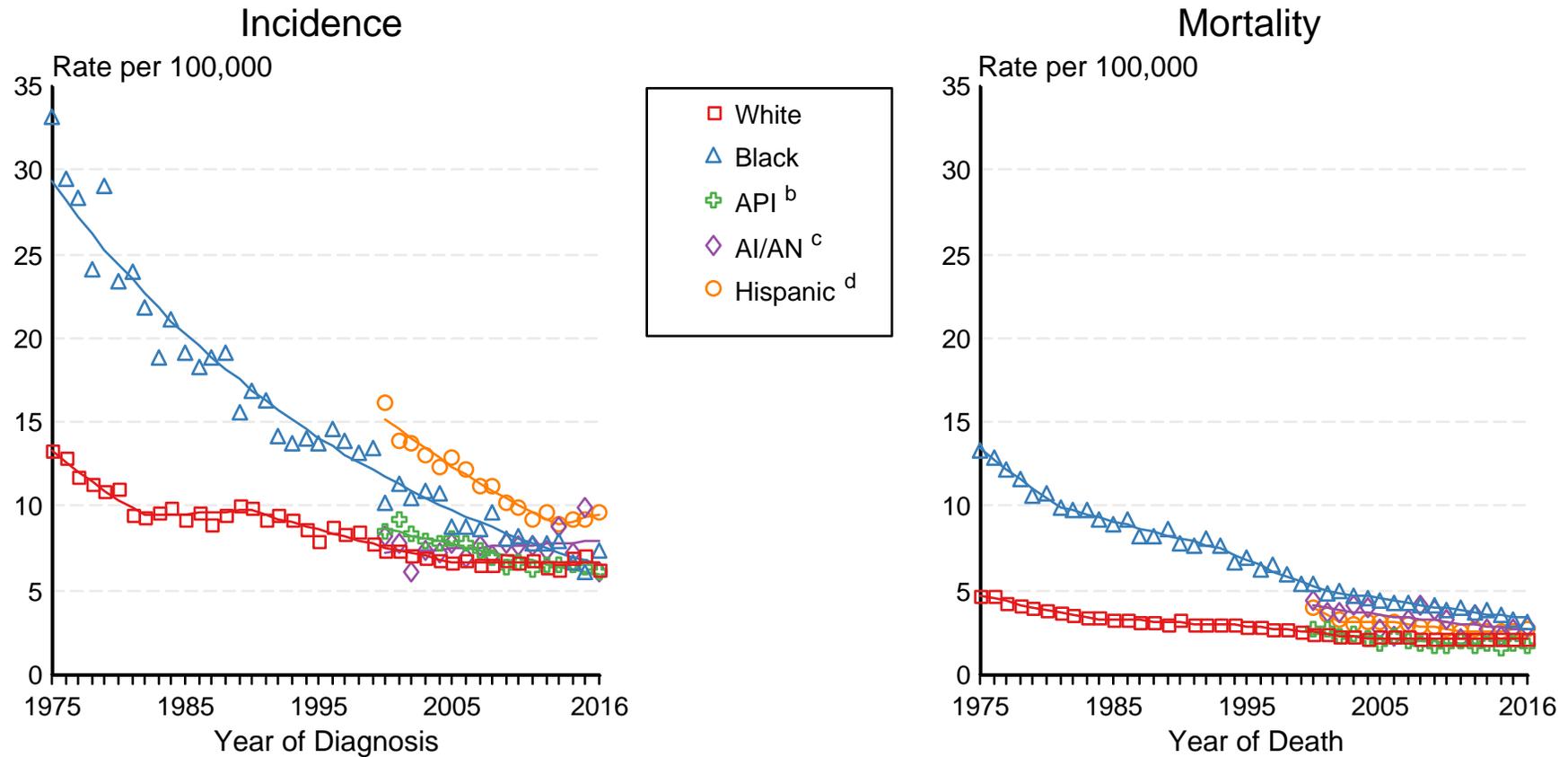
The 2007-2016 mortality AAPCs are based on a Joinpoint analysis using years of death 2000-2016.

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

Figure 5.3

SEER Incidence and US Death Rates^a Cancer of the Cervix Uteri

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



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

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

^b API = Asian/Pacific Islander.

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

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

Table 6.21
Cancer of the Colon and Rectum (Invasive)

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

SEER Incidence	SEER 21 Areas ^b			SEER 21 Areas ^b			SEER 9 Areas ^b		
	Rate 2012-2016			Trend 2007-2016 ^c			Trend 2007-2016 ^d		
	Rate per 100,000 persons			AAPC (%)			AAPC (%)		
Race/Ethnicity	Total	Males	Females	Total	Males	Females	Total	Males	Females
All Races	38.6	44.2	33.9	-2.5*	-2.6*	-2.4*	-2.4*	-2.3*	-2.4*
White	38.1	43.4	33.6	-2.5*	-2.7*	-2.2*	-2.4*	-2.6*	-2.3*
White Hispanic ^e	34.6	41.2	29.4	-2.4*	-2.7*	-1.8*	-	-	-
White Non-Hispanic ^e	38.8	44.1	34.3	-2.3*	-2.6*	-2.2*	-	-	-
Black	44.6	52.4	39.1	-3.1*	-2.8*	-3.2*	-2.9*	-2.8*	-2.6*
Asian/Pacific Islander	31.8	37.9	26.9	-2.4*	-2.4*	-3.4*	-	-	-
Amer Ind/Alaska Nat ^f	39.3	41.2	37.9	-0.7	-0.9	-0.4	-	-	-
Hispanic ^e	33.7	40.0	28.8	-2.0*	-2.5*	-1.8*	-	-	-
<u>U.S. Mortality^g</u>									
U.S. Mortality ^g	Rate 2012-2016			Trend 2007-2016 ^h					
	Rate per 100,000 persons			AAPC (%)					
	Total	Males	Females	Total	Males	Females			
All Races	14.2	16.9	11.9	-2.3*	-2.3*	-2.3*			
White	13.8	16.5	11.7	-2.2*	-2.3*	-2.2*			
White Hispanic ^e	11.9	15.3	9.3	-1.6*	-1.5*	-2.0*			
White Non-Hispanic ^e	14.0	16.6	11.9	-2.2*	-2.3*	-2.1*			
Black	18.9	23.8	15.5	-2.9*	-2.7*	-3.2*			
Asian/Pacific Islander	9.8	11.6	8.4	-2.0*	-2.2*	-1.8*			
Amer Ind/Alaska Nat									
Total U.S.	11.1	13.3	9.4	-1.6*	-1.7*	-1.6*			
PRCDA Counties	15.6	19.1	13.0	-0.8	-0.7	-1.0			
Non-PRCDA Counties	6.0	7.1	5.2	-2.6*	-2.8*	-2.2*			
Hispanic ^e	11.2	14.4	8.8	-1.8*	-1.7*	-2.2*			

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

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

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

Table 6.22
Cancer of the Colon (Invasive) and Cancer of the Rectum (Invasive)

SEER Incidence
Age-Adjusted Rates and Trends^a
By Race/Ethnicity and Sex

Cancer of the Colon <u>SEER Incidence</u>	SEER 21 Areas ^b Rate 2012-2016			SEER 21 Areas ^b Trend 2007-2016 ^c			SEER 9 Areas ^b Trend 2007-2016 ^d		
	Rate per 100,000 persons			AAPC (%)			AAPC (%)		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
Race/Ethnicity									
All Races	27.1	29.9	24.8	-2.9*	-3.1*	-2.7*	-2.7*	-2.8*	-2.6*
White	26.8	29.4	24.6	-2.8*	-3.1*	-2.5*	-2.8*	-3.1*	-2.8*
White Hispanic ^e	23.8	27.2	21.3	-2.6*	-3.2*	-1.9*	-	-	-
White Non-Hispanic ^e	27.3	29.9	25.2	-2.7*	-3.0*	-2.3*	-	-	-
Black	32.8	37.5	29.5	-3.4*	-3.4*	-3.1*	-3.1*	-3.3*	-3.2*
Asian/Pacific Islander	20.8	23.5	18.6	-2.7*	-2.8*	-3.7*	-	-	-
Amer Ind/Alaska Nat ^f	27.4	27.6	27.4	-1.0	-0.9	-1.1	-	-	-
Hispanic ^e	23.2	26.4	20.8	-2.5*	-3.0*	-1.9*	-	-	-
Cancer of the Rectum <u>SEER Incidence</u>	SEER 21 Areas ^b Rate 2012-2016			SEER 21 Areas ^b Trend 2007-2016 ^c			SEER 9 Areas ^b Trend 2007-2016 ^d		
	Rate per 100,000 persons			AAPC (%)			AAPC (%)		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
Race/Ethnicity									
All Races	11.5	14.3	9.1	-1.7*	-1.8*	-1.9*	-1.2*	-1.5*	-1.1
White	11.3	14.0	8.9	-1.8*	-2.0*	-1.7*	-1.2*	-1.6*	-1.1
White Hispanic ^e	10.8	14.0	8.1	-1.5*	-1.8*	-1.5*	-	-	-
White Non-Hispanic ^e	11.5	14.2	9.1	-1.8*	-1.9*	-1.6*	-	-	-
Black	11.8	14.9	9.5	-2.1*	-1.1*	-2.4*	-1.1	-1.8*	-0.9
Asian/Pacific Islander	11.0	14.3	8.3	-1.9*	-1.8*	-2.2*	-	-	-
Amer Ind/Alaska Nat ^f	11.9	13.7	10.5	0.0	-1.0	1.1	-	-	-
Hispanic ^e	10.5	13.6	8.0	-1.2*	-1.4*	-1.4*	-	-	-

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

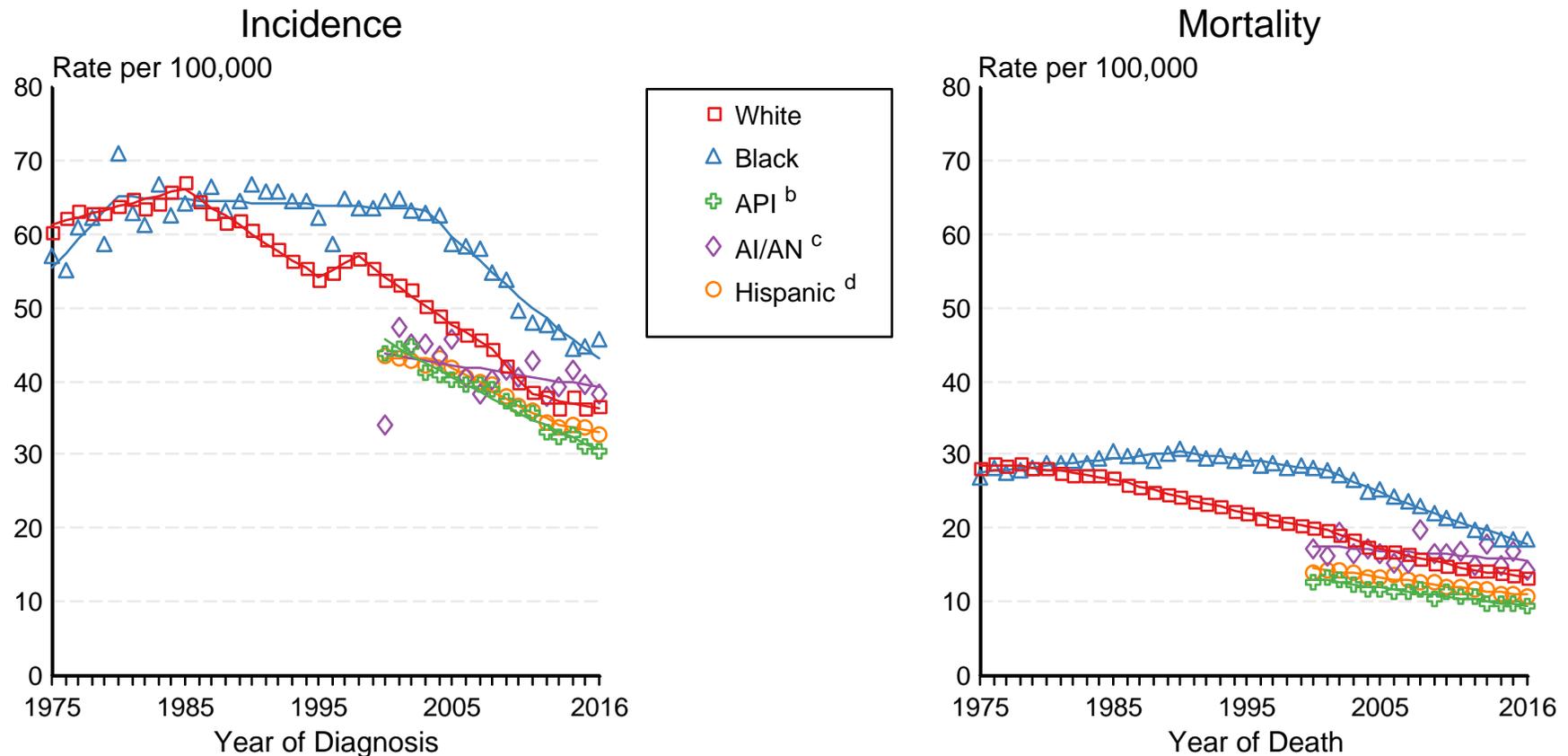
Incidence data for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) counties.

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

Figure 6.2

SEER Incidence and US Death Rates^a Cancer of the Colon and Rectum, Both Sexes

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



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

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

^b API = Asian/Pacific Islander.

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

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

Table 7.11
Cancer of the Corpus And Uterus, NOS (Invasive)

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

SEER Incidence	SEER 21 Areas ^b	SEER 21 Areas ^b	SEER 9 Areas ^b
	Rate 2012-2016	Trend 2007-2016 ^c	Trend 2007-2016 ^d
	Rate per 100,000 persons	AAPC (%)	AAPC (%)
Race/Ethnicity	Females	Females	Females
All Races	27.5	1.0*	1.0*
White	28.1	0.8*	0.7
White Hispanic ^e	24.7	2.1*	-
White Non-Hispanic ^e	28.5	0.7*	-
Black	27.4	2.3*	2.3*
Asian/Pacific Islander	20.8	2.1*	-
Amer Ind/Alaska Nat ^f	19.7	1.1	-
Hispanic ^e	24.1	2.2*	-
<u>U.S. Mortality^g</u>			
	Rate 2012-2016	Trend 2007-2016 ^h	
	Rate per 100,000 persons	AAPC (%)	
Race/Ethnicity	Females	Females	
All Races	4.7	1.9*	
White	4.4	1.7*	
White Hispanic ^e	4.1	2.7*	
White Non-Hispanic ^e	4.4	1.6*	
Black	8.5	2.2*	
Asian/Pacific Islander	3.1	2.3*	
Amer Ind/Alaska Nat			
Total U.S.	2.6	0.1	
PRCDA Counties	3.5	0.6	
Non-PRCDA Counties	1.5	-0.7	
Hispanic ^e	3.9	1.8*	

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

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

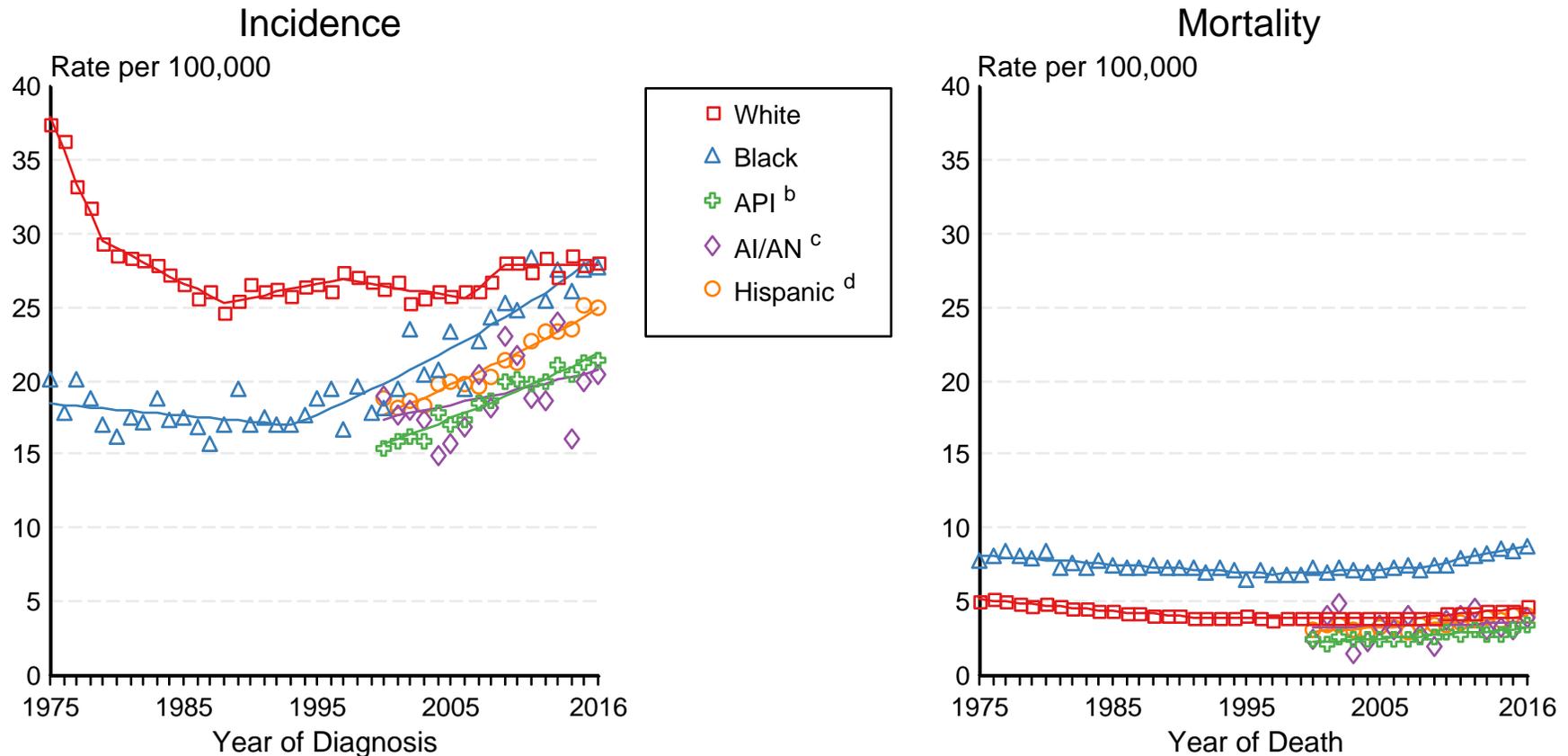
The APC is significantly different from zero (p<.05).

Figure 7.3

SEER Incidence and US Death Rates^a Cancer of the Corpus and Uterus, NOS

Joinpoint Analyses for Whites and Blacks from 1975-2016

and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

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

^b API = Asian/Pacific Islander.

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

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

Table 8.15
Cancer of the Esophagus (Invasive)

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

SEER Incidence	SEER 21 Areas ^b			SEER 21 Areas ^b			SEER 9 Areas ^b		
	Rate 2012-2016			Trend 2007-2016 ^c			Trend 2007-2016 ^d		
	Rate per 100,000 persons			AAPC (%)			AAPC (%)		
Race/Ethnicity	Total	Males	Females	Total	Males	Females	Total	Males	Females
All Races	4.3	7.3	1.8	-1.4*	-1.8*	-1.6*	-1.2*	-1.2*	-1.3*
White	4.6	7.9	1.8	-1.1*	-1.5*	-1.0*	-0.6*	-0.7*	-0.1
White Hispanic ^e	2.9	5.1	1.2	-1.7*	-2.0*	-1.7*	-	-	-
White Non-Hispanic ^e	4.8	8.3	1.9	-0.9*	-1.2*	-0.8*	-	-	-
Black	3.9	6.4	2.1	-4.4*	-4.5*	-4.4*	-4.4*	-4.6*	-3.3*
Asian/Pacific Islander	2.1	3.6	0.9	-1.6*	-1.2*	-2.8*	-	-	-
Amer Ind/Alaska Nat ^f	3.6	5.9	1.7	-1.3	-2.2	0.8	-	-	-
Hispanic ^e	2.8	4.9	1.1	-1.8*	-2.1*	-1.6*	-	-	-
<u>U.S. Mortality^g</u>									
U.S. Mortality ^g	Rate 2012-2016			Trend 2007-2016 ^h					
	Rate per 100,000 persons			AAPC (%)					
	Total	Males	Females	Total	Males	Females			
All Races	4.0	7.1	1.5	-1.0*	-1.1*	-1.6*			
White	4.2	7.5	1.5	-0.5*	-0.6*	-1.0*			
White Hispanic ^e	2.1	3.9	0.8	-1.3*	-1.2*	-2.4*			
White Non-Hispanic ^e	4.5	7.9	1.5	-0.3*	-0.4*	-0.8*			
Black	3.3	5.6	1.7	-4.7*	-4.9*	-4.5*			
Asian/Pacific Islander	1.6	2.7	0.7	-1.4*	-1.2*	-2.2*			
Amer Ind/Alaska Nat									
Total U.S.	2.6	4.6	1.0	-1.6*	-1.3	-3.0*			
PRCDA Counties	3.5	6.2	1.4	-0.9	-0.8	-1.0			
Non-PRCDA Counties	1.5	2.8	0.5	-2.5	-1.8	-7.5*			
Hispanic ^e	2.0	3.7	0.7	-1.4*	-1.3*	-2.4*			

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

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

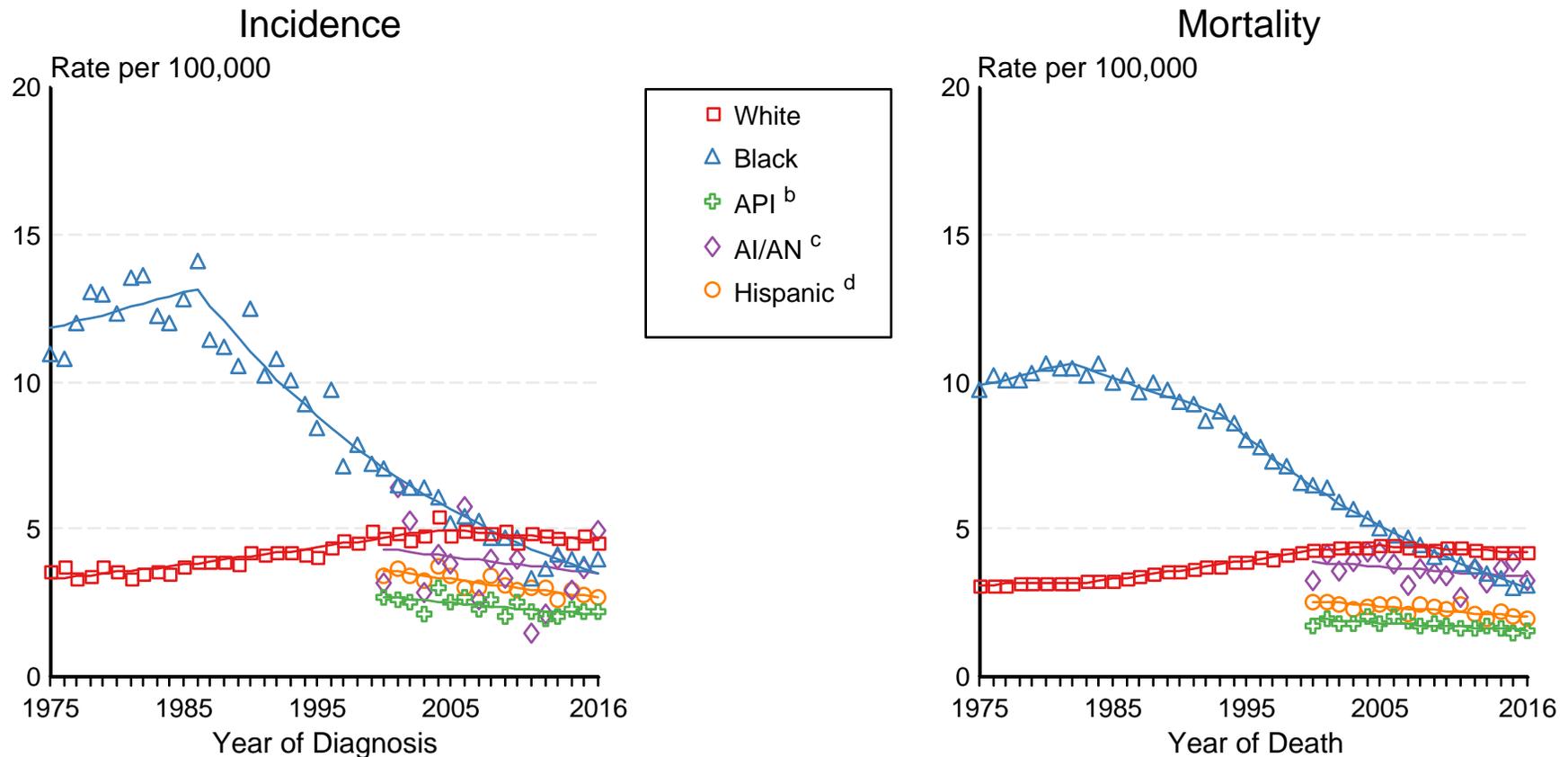
The APC is significantly different from zero (p<.05).

Figure 8.2

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

Joinpoint Analyses for Whites and Blacks from 1975-2016

and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

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

^b API = Asian/Pacific Islander.

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

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

Table 9.15
Hodgkin Lymphoma

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

SEER Incidence	SEER 21 Areas ^b			SEER 21 Areas ^b			SEER 9 Areas ^b		
	Rate 2012-2016			Trend 2007-2016 ^c			Trend 2007-2016 ^d		
	Rate per 100,000 persons			AAPC (%)			AAPC (%)		
Race/Ethnicity	Total	Males	Females	Total	Males	Females	Total	Males	Females
All Races	2.7	3.0	2.3	-1.7*	-1.7*	-1.4*	-1.8*	-1.8*	-2.0*
White	2.8	3.1	2.5	-1.9*	-1.8*	-2.0*	-2.2*	-2.0*	-2.3*
White Hispanic ^e	2.5	2.8	2.2	-1.5*	-1.3*	-1.1	-	-	-
White Non-Hispanic ^e	3.0	3.4	2.7	-1.7*	-0.7*	-2.0*	-	-	-
Black	2.7	3.1	2.3	-0.9	0.2	0.7	1.0*	0.6*	0.5
Asian/Pacific Islander	1.3	1.5	1.0	0.2	0.3	0.1	-	-	-
Amer Ind/Alaska Nat ^f	1.4	1.5	1.2	3.0*	0.2	-	-	-	-
Hispanic ^e	2.4	2.7	2.1	-0.5	-1.2*	0.3	-	-	-
<u>U.S. Mortality^g</u>									
U.S. Mortality ^g	Rate 2012-2016			Trend 2007-2016 ^h					
	Rate per 100,000 persons			AAPC (%)					
	Total	Males	Females	Total	Males	Females			
All Races	0.3	0.4	0.2	-4.0*	-2.7*	-4.6*			
White	0.3	0.4	0.3	-3.1*	-2.7*	-4.7*			
White Hispanic ^e	0.4	0.5	0.3	-1.2*	-1.7*	-0.6			
White Non-Hispanic ^e	0.3	0.4	0.2	-3.4*	-2.9*	-5.3*			
Black	0.3	0.4	0.2	-2.7*	-2.7*	-2.8*			
Asian/Pacific Islander	0.1	0.2	0.1	-3.1*	-2.1	2.4			
Amer Ind/Alaska Nat									
Total U.S.	0.1	-	-	-4.4	-	-			
PRCDA Counties	-	-	-	-	-	-			
Non-PRCDA Counties	-	-	-	-	-	-			
Hispanic ^e	0.4	0.5	0.3	-1.3*	-1.8*	-0.6			

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

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

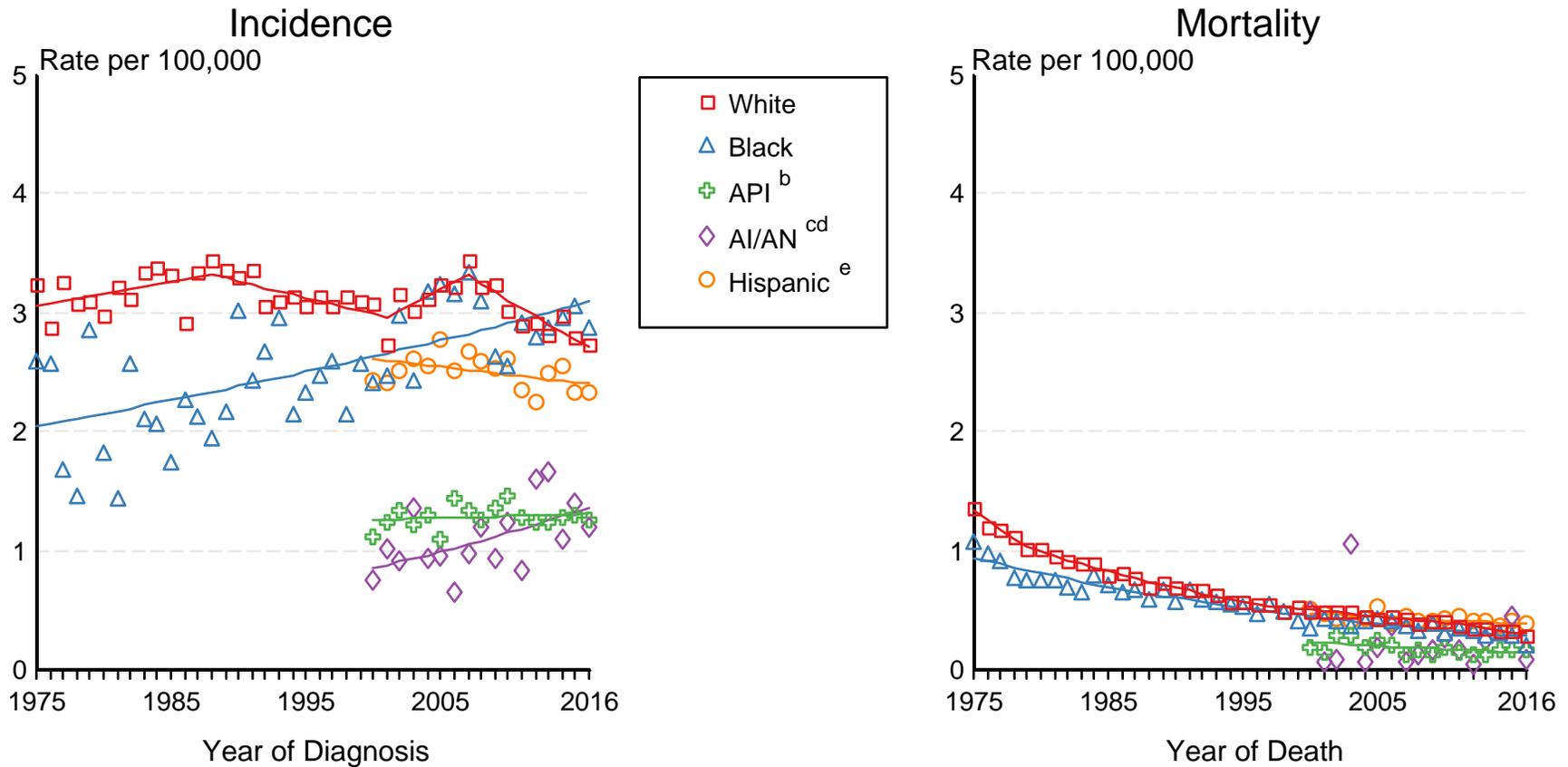
The APC is significantly different from zero (p<.05).

Figure 9.2

SEER Incidence and US Death Rates^a Hodgkin Lymphoma, Both Sexes

Joinpoint Analyses for Whites and Blacks from 1975-2016

and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

Regression lines are calculated using the Joinpoint Regression Program Version 4.7, February 2019, National Cancer Institute. Joinpoint analyses for Whites and Blacks during the 1975-2016 period allow a maximum of 5 joinpoints. Analyses for other ethnic groups during the period 2000-2015 allow a maximum of 3 joinpoints.

^b API = Asian/Pacific Islander.

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

^d Joinpoint could not fit a regression line for American Indian/Alaska Native Incidence due to insufficient data.

^e 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.

Table 10.13
Kaposi Sarcoma

SEER Incidence
Age-Adjusted Rates and Trends^a
By Race/Ethnicity and Sex

<u>SEER Incidence</u>	SEER 21 Areas ^b Rate 2012-2016 Rate per 100,000 persons			SEER 21 Areas ^b Trend 2007-2016 ^c AAPC (%)			SEER 9 Areas ^b Trend 2007-2016 ^d AAPC (%)		
	<u>Total</u>	<u>Males</u>	<u>Females</u>	<u>Total</u>	<u>Males</u>	<u>Females</u>	<u>Total</u>	<u>Males</u>	<u>Females</u>
Race/Ethnicity									
All Races	0.5	1.0	0.1	-2.9*	-2.9*	-3.1*	-2.1*	-2.2*	-3.2*
White	0.4	0.8	0.1	-3.5*	-3.6*	-3.5*	-3.0*	-3.1*	-4.1*
White Hispanic ^e	0.7	1.2	0.2	-4.6*	-4.7*	-4.1*	-	-	-
White Non-Hispanic ^e	0.3	0.6	0.1	-3.6*	-3.7*	-3.8*	-	-	-
Black	1.1	2.1	0.2	-2.5*	-2.5*	-3.7*	-1.2	-1.4*	-
Asian/Pacific Islander	0.2	0.4	-	-1.5	-0.3	-	-	-	-
Amer Ind/Alaska Nat ^f	-	-	-	-	-	-	-	-	-
Hispanic ^e	0.7	1.3	0.2	-4.1*	-4.3*	-3.3*	-	-	-

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends

are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

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 21 Areas ^b			SEER 21 Areas ^b			SEER 9 Areas ^b		
	Rate 2012-2016			Trend 2007-2016 ^c			Trend 2007-2016 ^d		
	Rate per 100,000 persons			AAPC (%)			AAPC (%)		
Race/Ethnicity	Total	Males	Females	Total	Males	Females	Total	Males	Females
All Races	16.1	22.1	10.9	0.3	0.3	0.1	0.3	0.2	-0.2
White	16.6	22.8	11.3	0.3	0.3	0.0	0.2	0.5	-0.3
White Hispanic ^e	16.3	21.6	12.0	0.8*	0.7	0.8	-	-	-
White Non-Hispanic ^e	16.7	23.1	11.1	0.2	0.3	0.0	-	-	-
Black	17.4	24.3	12.1	0.8*	0.7*	0.7	0.6	-0.1	0.3
Asian/Pacific Islander	8.4	12.0	5.5	0.1	0.4	-0.2	-	-	-
Amer Ind/Alaska Nat ^f	16.8	21.2	13.1	-1.5	-1.7	0.3	-	-	-
Hispanic ^e	15.7	20.8	11.6	1.1*	0.8*	1.9*	-	-	-
<u>U.S. Mortality^g</u>									
U.S. Mortality ^g	Rate 2012-2016			Trend 2007-2016 ^h					
	Rate per 100,000 persons			AAPC (%)					
	Total	Males	Females	Total	Males	Females			
All Races	3.8	5.5	2.3	-0.9*	-0.8*	-1.4*			
White	3.9	5.7	2.4	-0.8*	-0.7*	-1.3*			
White Hispanic ^e	3.7	5.3	2.4	-0.3	-0.5	-0.3			
White Non-Hispanic ^e	3.9	5.7	2.4	-0.8*	-0.7*	-1.3*			
Black	3.6	5.5	2.3	-1.1*	-1.0*	-1.5*			
Asian/Pacific Islander	1.8	2.7	1.1	-0.2	0.2	-0.9			
Amer Ind/Alaska Nat									
Total U.S.	3.8	5.3	2.6	-1.8*	-2.0*	-1.5			
PRCDA Counties	5.7	8.1	3.8	-1.1	-1.0	-1.2			
Non-PRCDA Counties	1.7	2.3	1.3	-2.4*	-2.6	-1.1			
Hispanic ^e	3.5	5.0	2.3	-0.5*	-0.7*	-0.5			

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

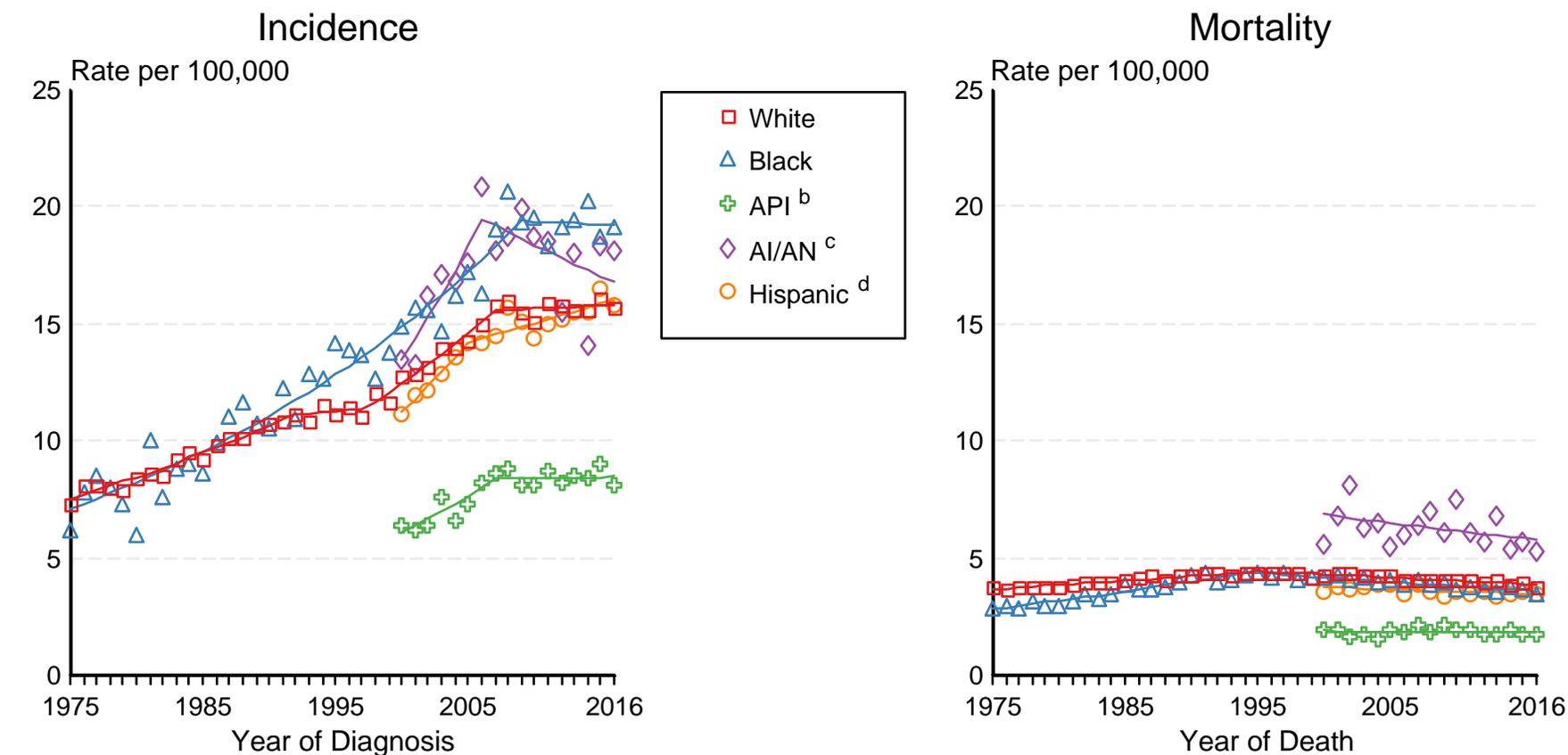
The 2007-2016 mortality AAPCs are based on a Joinpoint analysis using years of death 2000-2016.

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

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



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

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

^b API = Asian/Pacific Islander.

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

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

Table 12.15
Cancer of the Larynx (Invasive)

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

SEER Incidence	SEER 21 Areas ^b Rate 2012-2016			SEER 21 Areas ^b Trend 2007-2016 ^c AAPC (%)			SEER 9 Areas ^b Trend 2007-2016 ^d AAPC (%)		
	Rate per 100,000 persons			AAPC (%)			AAPC (%)		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
Race/Ethnicity									
All Races	3.0	5.2	1.1	-2.8*	-2.9*	-2.3*	-2.4*	-2.5*	-2.6*
White	3.0	5.2	1.2	-2.7*	-2.9*	-2.2*	-2.3*	-2.4*	-2.4*
White Hispanic ^e	2.2	4.3	0.6	-3.0*	-3.0*	-3.5*	-	-	-
White Non-Hispanic ^e	3.2	5.4	1.3	-2.5*	-2.7*	-1.9*	-	-	-
Black	4.0	7.6	1.5	-2.9*	-3.1*	-2.2*	-2.9*	-2.7*	-3.0*
Asian/Pacific Islander	1.0	2.0	0.2	-3.1*	-3.4*	-1.9	-	-	-
Amer Ind/Alaska Nat ^f	2.0	3.6	-	0.5	1.3	-	-	-	-
Hispanic ^e	2.2	4.2	0.6	-2.9*	-2.9*	-3.3*	-	-	-
U.S. Mortality ^g									
	Rate 2012-2016			Trend 2007-2016 ^h AAPC (%)					
	Rate per 100,000 persons			AAPC (%)					
	Total	Males	Females	Total	Males	Females			
Race/Ethnicity									
All Races	1.0	1.8	0.4	-2.3*	-2.5*	-2.3*			
White	1.0	1.7	0.4	-1.9*	-2.2*	-2.0*			
White Hispanic ^e	0.7	1.5	0.1	-2.5*	-2.5*	-3.7*			
White Non-Hispanic ^e	1.0	1.7	0.4	-1.8*	-2.1*	-1.8*			
Black	1.6	3.1	0.5	-3.7*	-3.8*	-3.5*			
Asian/Pacific Islander	0.3	0.7	0.1	-2.0*	-2.3*	-1.2			
Amer Ind/Alaska Nat									
Total U.S.	0.7	1.4	0.2	-2.4	-1.7	-4.7*			
PRCDA Counties	0.8	1.6	-	-2.3	-1.2	-			
Non-PRCDA Counties	0.6	1.1	-	-2.8	-2.1	-4.7			
Hispanic ^e	0.7	1.5	0.1	-2.5*	-2.5*	-3.7*			

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

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

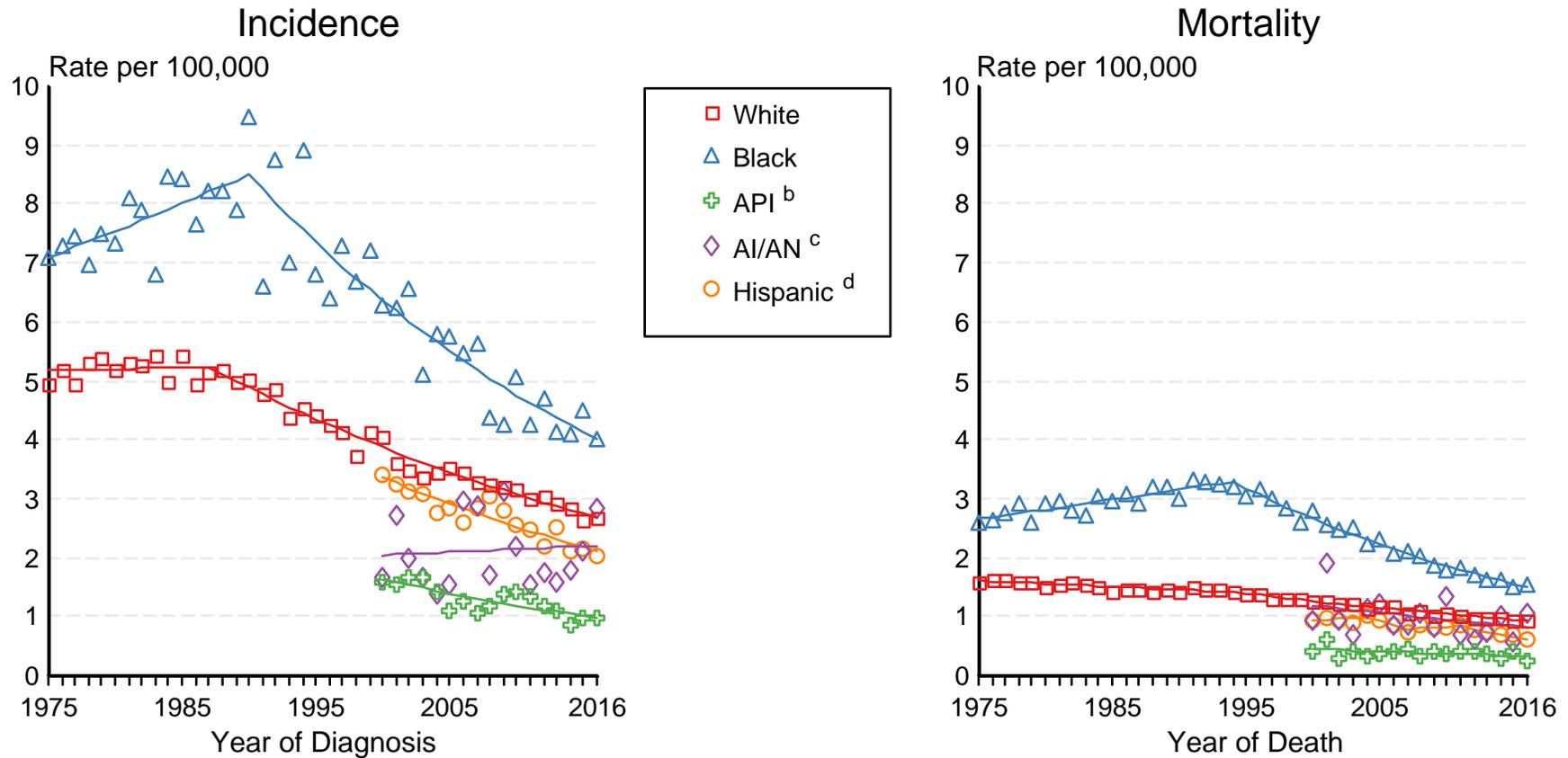
The APC is significantly different from zero (p<.05).

Figure 12.2

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

Joinpoint Analyses for Whites and Blacks from 1975-2016

and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

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

^b API = Asian/Pacific Islander.

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

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

Table 13.23
Leukemia

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

SEER Incidence	SEER 21 Areas ^b			SEER 21 Areas ^b			SEER 9 Areas ^b		
	Rate 2012-2016			Trend 2007-2016 ^c			Trend 2007-2016 ^d		
	Rate per 100,000 persons			AAPC (%)			AAPC (%)		
Race/Ethnicity	Total	Males	Females	Total	Males	Females	Total	Males	Females
All Races	14.1	18.1	10.9	-0.4	-0.2	-0.6	-0.3	0.2*	0.3*
White	14.9	19.1	11.5	-0.5	-0.5	-0.7	0.4*	0.3*	0.5*
White Hispanic ^e	11.2	13.4	9.4	0.1	-0.2	0.3	-	-	-
White Non-Hispanic ^e	15.3	19.7	11.6	-0.5	-0.5	-0.8	-	-	-
Black	10.9	13.9	8.9	0.6	0.2	0.7	0.1	0.1	0.2
Asian/Pacific Islander	7.8	9.7	6.3	0.1	0.0	0.2	-	-	-
Amer Ind/Alaska Nat ^f	8.6	11.0	6.6	0.8	2.1	-0.1	-	-	-
Hispanic ^e	10.8	13.0	9.1	0.2	0.0	0.3	-	-	-
<u>U.S. Mortality^g</u>									
Race/Ethnicity	Rate 2012-2016			Trend 2007-2016 ^h					
	Rate per 100,000 persons			AAPC (%)					
	Total	Males	Females	Total	Males	Females			
All Races	6.5	8.8	4.9	-1.6*	-1.7*	-1.3*			
White	6.8	9.1	5.1	-1.4*	-1.6*	-1.2*			
White Hispanic ^e	5.0	6.3	4.1	-0.7*	-0.8*	-0.6*			
White Non-Hispanic ^e	6.9	9.3	5.1	-1.4*	-1.5*	-1.2*			
Black	5.5	7.2	4.4	-1.5*	-1.7*	-1.5*			
Asian/Pacific Islander	3.6	4.7	2.8	-1.8*	-0.7	-2.3*			
Amer Ind/Alaska Nat									
Total U.S.	3.1	4.2	2.3	-2.2*	-0.9	-3.6*			
PRCDA Counties	4.1	5.4	3.0	-1.6*	-0.5	-2.8*			
Non-PRCDA Counties	2.0	2.8	1.5	-3.1*	-1.3	-5.0*			
Hispanic ^e	4.7	6.0	3.8	-0.8*	-0.9*	-0.7*			

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

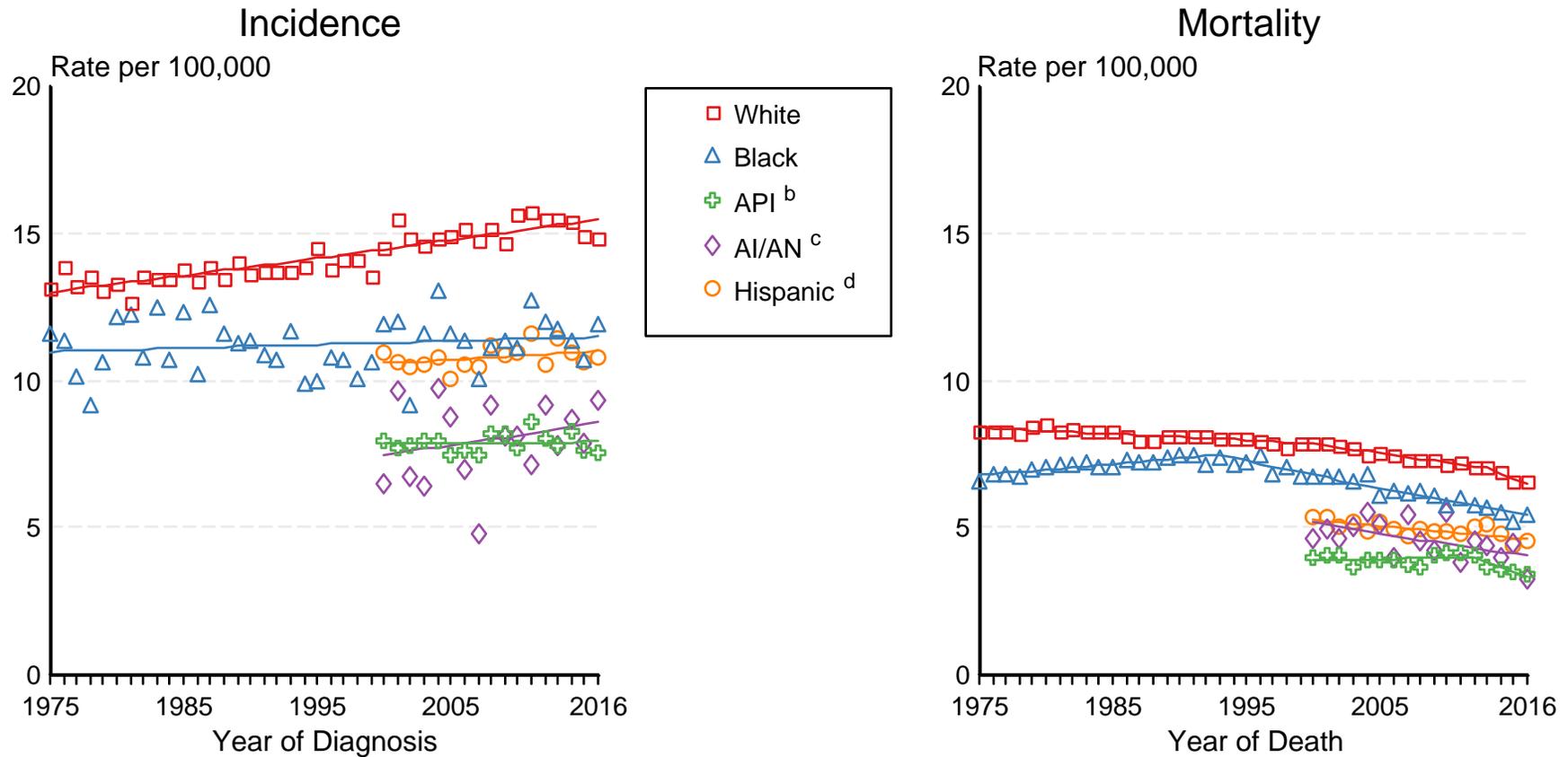
The 2007-2016 mortality AAPCs are based on a Joinpoint analysis using years of death 2000-2016.

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

Figure 13.3

SEER Incidence and US Death Rates^a Leukemia, Both Sexes

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



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

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

^b API = Asian/Pacific Islander.

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

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

Table 14.15
Cancer of the Liver and Intrahepatic Bile Duct (Invasive)

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

SEER Incidence	SEER 21 Areas ^b			SEER 21 Areas ^b			SEER 9 Areas ^b		
	Rate 2012-2016			Trend 2007-2016 ^c			Trend 2007-2016 ^d		
	Rate per 100,000 persons			AAPC (%)			AAPC (%)		
Race/Ethnicity	Total	Males	Females	Total	Males	Females	Total	Males	Females
All Races	8.8	13.6	4.7	1.5*	1.7*	1.9*	2.1*	1.8*	2.7*
White	8.0	12.2	4.3	1.8*	1.6*	2.3	2.6*	2.2*	3.7*
White Hispanic ^e	14.1	21.1	8.1	0.1	0.4	0.0	-	-	-
White Non-Hispanic ^e	7.0	10.8	3.7	2.3*	1.8*	3.0*	-	-	-
Black	10.8	17.8	5.4	1.6*	1.4*	1.8	1.5	1.0	2.9*
Asian/Pacific Islander	13.0	19.9	7.4	-2.4*	-2.3*	-1.1*	-	-	-
Amer Ind/Alaska Nat ^f	13.6	19.3	8.5	2.7*	3.0*	2.0*	-	-	-
Hispanic ^e	13.6	20.3	7.9	0.5	0.6	0.4	-	-	-
<u>U.S. Mortality^g</u>									
U.S. Mortality ^g	Rate 2012-2016			Trend 2007-2016 ^h					
	Rate per 100,000 persons			AAPC (%)					
	Total	Males	Females	Total	Males	Females			
All Races	6.5	9.6	3.9	2.4*	2.0*	2.5*			
White	6.1	8.9	3.7	2.5*	2.4*	2.6*			
White Hispanic ^e	9.8	14.1	6.3	1.5*	1.6*	1.3*			
White Non-Hispanic ^e	5.7	8.3	3.4	2.5*	2.4*	2.2*			
Black	8.4	13.2	4.7	1.7*	1.5*	1.8*			
Asian/Pacific Islander	9.3	13.8	5.8	-1.1*	-0.9*	-1.3*			
Amer Ind/Alaska Nat									
Total U.S.	7.4	9.9	5.1	1.2*	1.4*	0.6			
PRCDA Counties	10.6	14.4	7.4	1.8*	2.3*	1.0			
Non-PRCDA Counties	3.7	5.1	2.4	0.8	0.7	0.7			
Hispanic ^e	9.3	13.3	6.0	1.4*	1.4*	1.3*			

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

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

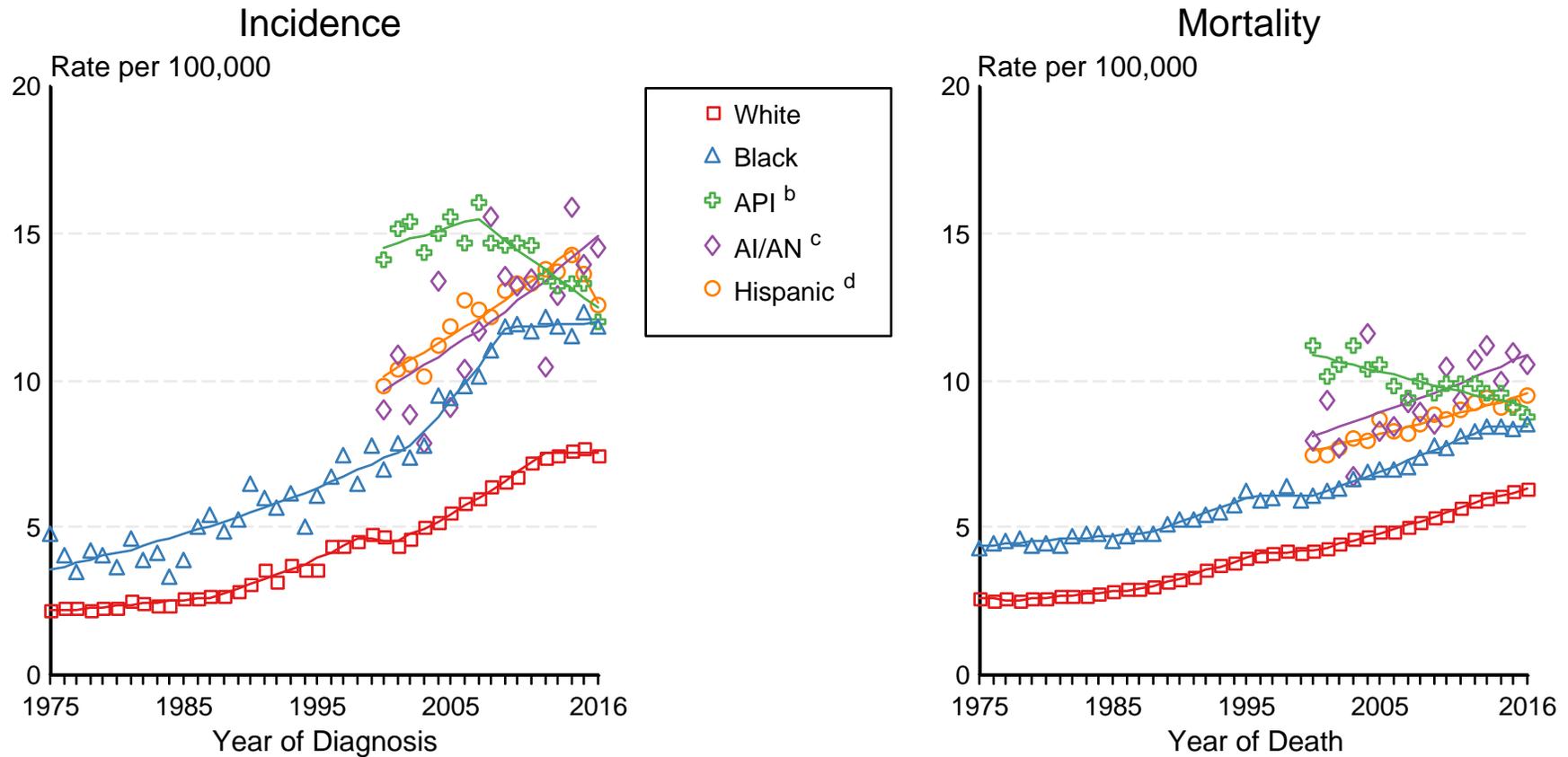
The APC is significantly different from zero (p<.05).

Figure 14.2

SEER Incidence and US Death Rates^a Cancer of the Liver and Intrahepatic Bile Duct, Both Sexes

Joinpoint Analyses for Whites and Blacks from 1975-2016

and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

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

^b API = Asian/Pacific Islander.

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

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

Table 15.21
Lung and Bronchus (Invasive)

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

SEER Incidence	SEER 21 Areas ^b			SEER 21 Areas ^b			SEER 9 Areas ^b		
	Rate 2012-2016			Trend 2007-2016 ^c			Trend 2007-2016 ^d		
	Rate per 100,000 persons			AAPC (%)			AAPC (%)		
Race/Ethnicity	Total	Males	Females	Total	Males	Females	Total	Males	Females
All Races	54.9	63.0	48.9	-2.2*	-2.9*	-1.7*	-2.3*	-2.8*	-1.8*
White	56.7	63.5	51.8	-2.2*	-2.9*	-1.6*	-2.2*	-2.8*	-1.7*
White Hispanic ^e	29.8	36.1	25.4	-2.5*	-3.6*	-1.3*	-	-	-
White Non-Hispanic ^e	60.9	67.5	56.0	-2.0*	-2.7*	-1.4*	-	-	-
Black	56.2	73.5	44.6	-2.5*	-2.8*	-1.7*	-3.1*	-3.0*	-2.1*
Asian/Pacific Islander	36.0	46.3	28.2	-1.0*	-1.7*	-0.6	-	-	-
Amer Ind/Alaska Nat ^f	37.8	43.3	33.9	-1.7*	-2.2*	-1.1	-	-	-
Hispanic ^e	29.1	35.2	24.8	-2.3*	-3.4*	-1.1*	-	-	-
<u>U.S. Mortality^g</u>									
U.S. Mortality ^g	Rate 2012-2016			Trend 2007-2016 ^h					
	Rate per 100,000 persons			AAPC (%)					
	Total	Males	Females	Total	Males	Females			
All Races	41.9	51.6	34.4	-3.0*	-3.6*	-2.5*			
White	42.7	51.7	35.6	-2.9*	-3.5*	-2.4*			
White Hispanic ^e	19.2	26.6	13.8	-2.2*	-3.0*	-1.0*			
White Non-Hispanic ^e	45.0	54.1	38.0	-2.7*	-3.4*	-2.2*			
Black	44.3	62.1	32.4	-3.5*	-4.1*	-2.7*			
Asian/Pacific Islander	22.7	30.2	17.3	-1.9*	-2.7*	-1.3*			
Amer Ind/Alaska Nat									
Total U.S.	27.7	33.6	23.1	-2.8*	-2.3*	-2.7*			
PRCDA Counties	34.8	42.0	29.4	-1.4*	-1.6*	-1.7*			
Non-PRCDA Counties	19.5	24.1	15.7	-2.8*	-3.1*	-2.6*			
Hispanic ^e	18.3	25.3	13.1	-2.3*	-3.1*	-1.1*			

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

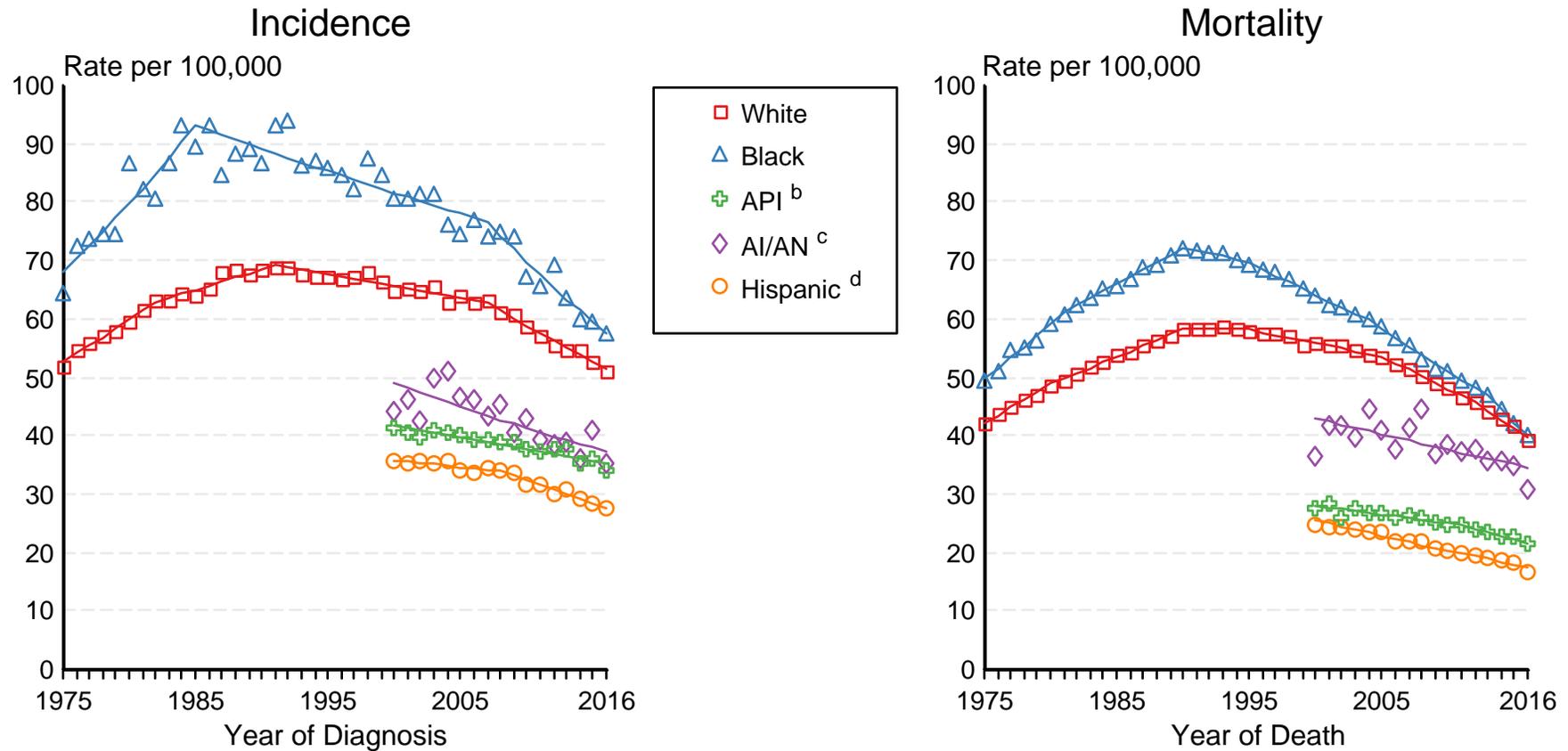
The 2007-2016 mortality AAPCs are based on a Joinpoint analysis using years of death 2000-2016.

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

Figure 15.4

SEER Incidence and US Death Rates^a Cancer of the Lung and Bronchus, Both Sexes

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



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

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

^b API = Asian/Pacific Islander.

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

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

Table 16.15
Melanoma of the Skin (Invasive)

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

SEER Incidence	SEER 21 Areas ^b			SEER 21 Areas ^b			SEER 9 Areas ^b		
	Rate 2012-2016			Trend 2007-2016 ^c			Trend 2007-2016 ^d		
	Rate per 100,000 persons			AAPC (%)			AAPC (%)		
Race/Ethnicity	Total	Males	Females	Total	Males	Females	Total	Males	Females
All Races	22.2	28.8	17.5	1.1*	1.2*	0.9*	1.5*	1.5*	1.5*
White	26.6	33.9	21.3	1.2*	1.2*	1.0*	1.7*	1.6*	1.7*
White Hispanic ^e	4.9	5.2	4.9	0.4	0.2	0.4	-	-	-
White Non-Hispanic ^e	31.2	39.1	25.4	1.5*	1.5*	1.4*	-	-	-
Black	1.0	1.1	0.9	-0.3	-0.7	0.0	-0.3	-0.6	-0.2
Asian/Pacific Islander	1.4	1.6	1.2	-0.7	-0.7	-0.8	-	-	-
Amer Ind/Alaska Nat ^f	5.5	5.8	5.3	1.5	-0.7	4.3*	-	-	-
Hispanic ^e	4.7	5.0	4.7	0.5	0.3	0.4	-	-	-
<u>U.S. Mortality^g</u>									
Race/Ethnicity	Rate 2012-2016			Trend 2007-2016 ^h					
	Rate per 100,000 persons			AAPC (%)					
	Total	Males	Females	Total	Males	Females			
All Races	2.5	3.7	1.5	-2.5*	-2.5*	-2.6*			
White	2.9	4.3	1.8	-2.0*	-2.2*	-2.2*			
White Hispanic ^e	0.8	1.0	0.6	-0.7	-0.4	-1.0			
White Non-Hispanic ^e	3.2	4.7	2.0	-1.8*	-2.0*	-1.9*			
Black	0.4	0.4	0.3	-4.7	-1.2	-2.7*			
Asian/Pacific Islander	0.3	0.4	0.3	-0.9	-2.1	-0.1			
Amer Ind/Alaska Nat									
Total U.S.	0.5	0.7	0.4	-3.4*	-2.8	-4.1			
PRCDA Counties	0.7	1.0	0.5	-2.9	-2.2	-			
Non-PRCDA Counties	0.3	-	-	-1.9	-	-			
Hispanic ^e	0.7	0.9	0.5	-0.8	-0.5	-1.1			

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

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

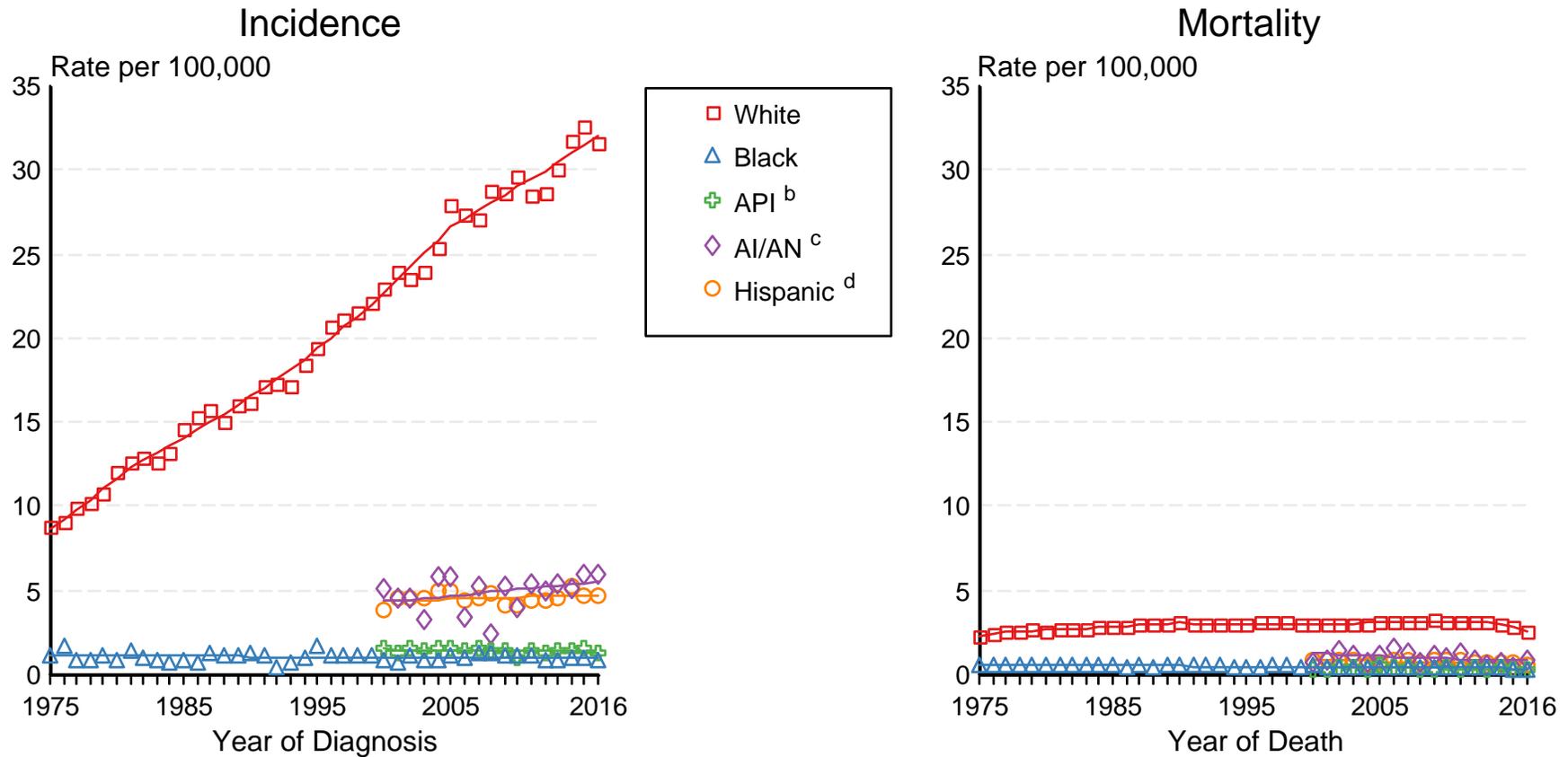
The APC is significantly different from zero (p<.05).

Figure 16.2

SEER Incidence and US Death Rates^a Melanoma of the Skin, Both Sexes

Joinpoint Analyses for Whites and Blacks from 1975-2016

and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

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

^b API = Asian/Pacific Islander.

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

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

Table 17.11
Mesothelioma

SEER Incidence
Age-Adjusted Rates and Trends^a
By Race/Ethnicity and Sex

SEER Incidence	SEER 21 Areas ^b			SEER 21 Areas ^b			SEER 9 Areas ^b		
	Rate 2012-2016			Trend 2007-2016 ^c			Trend 2007-2016 ^d		
	Rate per 100,000 persons			AAPC (%)			AAPC (%)		
Race/Ethnicity	Total	Males	Females	Total	Males	Females	Total	Males	Females
All Races	0.9	1.6	0.4	-1.6*	-2.1*	-0.3	-1.1*	-1.5*	-0.3
White	1.0	1.8	0.5	-1.4*	-2.0*	0.0	-0.8*	-1.3*	0.0
White Hispanic ^e	0.8	1.3	0.4	-2.6*	-3.0*	-1.8	-	-	-
White Non-Hispanic ^e	1.1	1.8	0.5	-1.2*	-1.9*	0.1	-	-	-
Black	0.4	0.8	0.2	-1.7	-1.9	-1.0	-3.9*	-3.9*	-
Asian/Pacific Islander	0.3	0.6	0.1	-0.4	0.1	-2.1	-	-	-
Amer Ind/Alaska Nat ^f	0.5	-	-	-	-	-	-	-	-
Hispanic ^e	0.8	1.3	0.4	-2.4*	-2.8*	-1.5	-	-	-

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

Table 18.15
Myeloma

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

SEER Incidence	SEER 21 Areas ^b			SEER 21 Areas ^b			SEER 9 Areas ^b		
	Rate 2012-2016			Trend 2007-2016 ^c			Trend 2007-2016 ^d		
	Rate per 100,000 persons			AAPC (%)			AAPC (%)		
Race/Ethnicity	Total	Males	Females	Total	Males	Females	Total	Males	Females
All Races	6.9	8.7	5.6	1.1*	0.8*	1.2	1.5	0.9*	0.8*
White	6.3	8.1	4.9	1.0	0.7	0.9*	0.8*	0.9*	0.6*
White Hispanic ^e	6.6	8.2	5.5	0.2	0.0	0.2	-	-	-
White Non-Hispanic ^e	6.2	8.1	4.8	0.6	0.5	0.5	-	-	-
Black	13.7	16.3	11.9	0.4	0.2	1.2*	0.2	0.8*	0.9*
Asian/Pacific Islander	3.8	4.9	3.0	0.6	1.5*	-0.3	-	-	-
Amer Ind/Alaska Nat ^f	5.4	6.0	5.0	-0.2	1.3	-1.4	-	-	-
Hispanic ^e	6.7	8.2	5.5	0.4	0.5	0.4	-	-	-
<u>U.S. Mortality^g</u>									
Race/Ethnicity	Rate 2012-2016			Trend 2007-2016 ^h					
	Rate per 100,000 persons			AAPC (%)					
	Total	Males	Females	Total	Males	Females			
All Races	3.3	4.2	2.7	-0.6	-0.9*	-0.8			
White	3.1	4.0	2.4	-0.6	-0.8*	-0.7*			
White Hispanic ^e	2.9	3.6	2.4	-0.8*	-0.6	-1.2*			
White Non-Hispanic ^e	3.1	4.0	2.4	-0.6	-0.8*	-0.7*			
Black	6.2	7.4	5.4	-0.5	-1.1*	-0.7			
Asian/Pacific Islander	1.6	2.0	1.2	-0.5	0.3	-1.4			
Amer Ind/Alaska Nat									
Total U.S.	2.1	2.4	1.9	-2.9*	-2.7*	-3.2*			
PRCDA Counties	3.1	3.4	2.8	-1.8	-1.9*	-1.6			
Non-PRCDA Counties	1.1	1.4	0.9	-4.6*	-4.0*	-6.5*			
Hispanic ^e	2.8	3.4	2.3	-1.0*	-0.7	-1.4*			

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

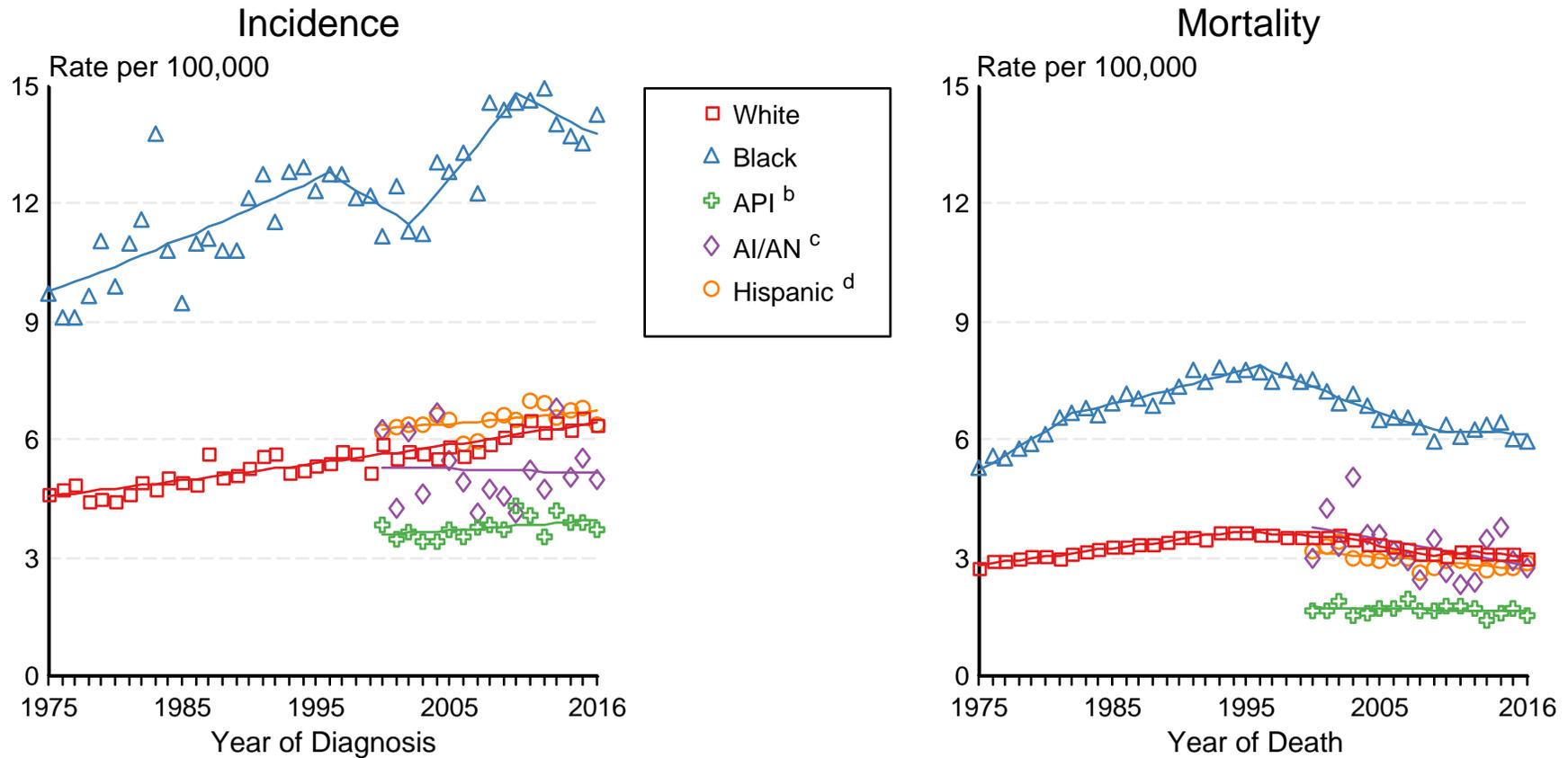
The 2007-2016 mortality AAPCs are based on a Joinpoint analysis using years of death 2000-2016.

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

Figure 18.2

SEER Incidence and US Death Rates^a Myeloma, Both Sexes

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



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

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

^b API = Asian/Pacific Islander.

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

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

Table 19.19
Non-Hodgkin Lymphoma

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

SEER Incidence	SEER 21 Areas ^b			SEER 21 Areas ^b			SEER 9 Areas ^b		
	Rate 2012-2016			Trend 2007-2016 ^c			Trend 2007-2016 ^d		
	Rate per 100,000 persons			AAPC (%)			AAPC (%)		
Race/Ethnicity	Total	Males	Females	Total	Males	Females	Total	Males	Females
All Races	19.6	23.9	16.2	-0.7*	-0.9	-0.8*	-0.9*	-0.7*	-0.8*
White	20.6	25.0	17.0	-0.8*	-1.1*	-0.9*	-0.9*	-0.8*	-0.8*
White Hispanic ^e	18.3	21.2	16.1	-0.8*	-0.3	-0.5	-	-	-
White Non-Hispanic ^e	21.0	25.6	17.2	-0.8*	-0.6*	-1.0*	-	-	-
Black	14.7	17.7	12.4	0.1	0.0	0.3	0.0	-0.4	-0.9
Asian/Pacific Islander	13.4	16.4	11.0	0.0	0.0	-0.1	-	-	-
Amer Ind/Alaska Nat ^f	11.3	12.0	10.6	-0.5	-1.2	0.0	-	-	-
Hispanic ^e	17.9	20.7	15.7	-0.5	-0.2	0.3	-	-	-
<u>U.S. Mortality^g</u>									
Race/Ethnicity	Rate 2012-2016			Trend 2007-2016 ^h					
	Rate per 100,000 persons			AAPC (%)					
	Total	Males	Females	Total	Males	Females			
All Races	5.6	7.3	4.4	-2.3*	-2.0*	-2.7*			
White	5.9	7.6	4.5	-2.3*	-2.0*	-2.7*			
White Hispanic ^e	5.1	6.5	4.0	-1.6*	-1.3*	-2.0*			
White Non-Hispanic ^e	5.9	7.6	4.6	-2.3*	-2.0*	-2.7*			
Black	4.1	5.2	3.3	-2.0*	-1.9*	-2.1*			
Asian/Pacific Islander	3.9	4.9	3.1	-1.7*	-1.5*	-1.9*			
Amer Ind/Alaska Nat									
Total U.S.	3.1	4.0	2.4	-3.2*	-2.0*	-4.5*			
PRCDA Counties	4.4	5.8	3.3	-2.1*	-0.4	-3.7*			
Non-PRCDA Counties	1.7	2.1	1.4	-5.4*	-5.0*	-6.0*			
Hispanic ^e	4.8	6.1	3.8	-1.7*	-1.4*	-2.1*			

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

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

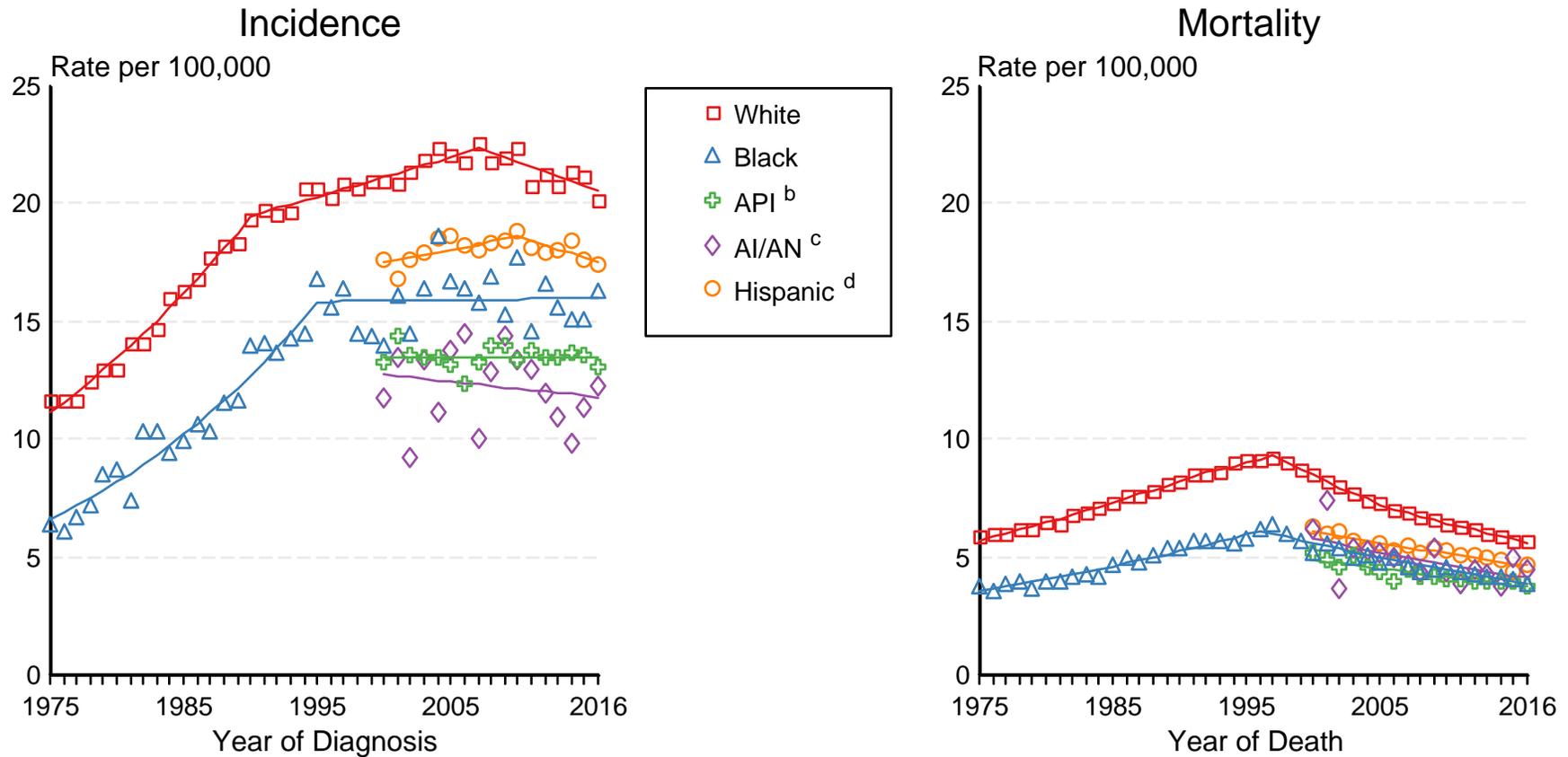
The APC is significantly different from zero (p<.05).

Figure 19.2

SEER Incidence and US Death Rates^a Non-Hodgkin Lymphoma, Both Sexes

Joinpoint Analyses for Whites and Blacks from 1975-2016

and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

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

^b API = Asian/Pacific Islander.

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

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

Table 20.19
Cancer of the Oral Cavity and Pharynx (Invasive)

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

SEER Incidence	SEER 21 Areas ^b			SEER 21 Areas ^b			SEER 9 Areas ^b		
	Rate 2012-2016			Trend 2007-2016 ^c			Trend 2007-2016 ^d		
	Rate per 100,000 persons			AAPC (%)			AAPC (%)		
Race/Ethnicity	Total	Males	Females	Total	Males	Females	Total	Males	Females
All Races	11.3	17.0	6.4	0.7*	0.6*	0.2*	0.8*	0.9*	0.8
White	11.9	17.9	6.6	0.9*	1.0*	0.4*	1.1*	1.3*	0.5
White Hispanic ^e	7.0	10.3	4.3	-1.1	-0.5	0.2	-	-	-
White Non-Hispanic ^e	12.8	19.3	7.0	1.2*	1.3*	0.6*	-	-	-
Black	8.6	13.4	5.0	-1.8*	-2.2*	-1.1*	-2.4*	-2.7*	-1.5*
Asian/Pacific Islander	8.4	11.8	5.6	-0.1	0.1	-0.5	-	-	-
Amer Ind/Alaska Nat ^f	8.3	11.8	5.3	0.7	0.7	0.0	-	-	-
Hispanic ^e	6.9	10.1	4.2	-0.2	-0.5	0.2	-	-	-
<u>U.S. Mortality^g</u>									
Race/Ethnicity	Rate 2012-2016			Trend 2007-2016 ^h					
	Rate per 100,000 persons			AAPC (%)					
	Total	Males	Females	Total	Males	Females			
All Races	2.5	3.9	1.3	0.3	0.5*	0.0			
White	2.5	3.8	1.3	0.7*	1.0*	0.2			
White Hispanic ^e	1.6	2.6	0.9	-0.5	-0.8*	-0.2			
White Non-Hispanic ^e	2.6	4.0	1.4	0.8*	1.1*	0.3			
Black	2.7	4.7	1.3	-2.8*	-3.1*	-2.1*			
Asian/Pacific Islander	2.0	3.1	1.2	0.6	0.8	-1.2			
Amer Ind/Alaska Nat									
Total U.S.	1.5	2.4	0.7	-2.6*	-2.4*	-4.1*			
PRCDA Counties	2.2	3.7	1.0	-0.5	0.0	-2.7			
Non-PRCDA Counties	0.8	1.1	0.5	-6.3*	-6.9*	-5.8			
Hispanic ^e	1.5	2.4	0.8	-0.8*	-0.1	-0.3			

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

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

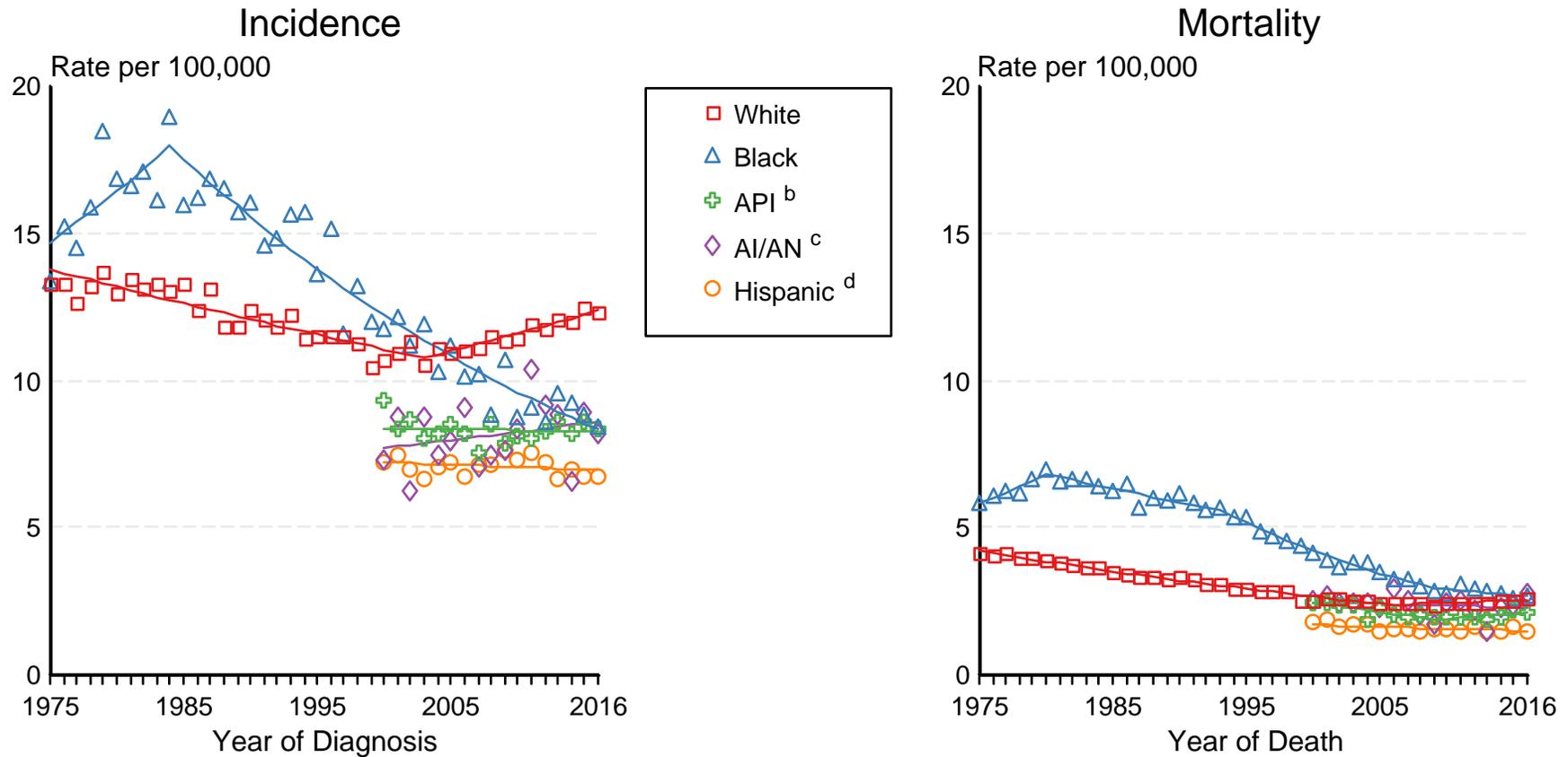
The APC is significantly different from zero (p<.05).

Figure 20.2

SEER Incidence and US Death Rates^a Cancer of the Oral Cavity and Pharynx, Both Sexes

Joinpoint Analyses for Whites and Blacks from 1975-2016

and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

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

^b API = Asian/Pacific Islander.

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

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

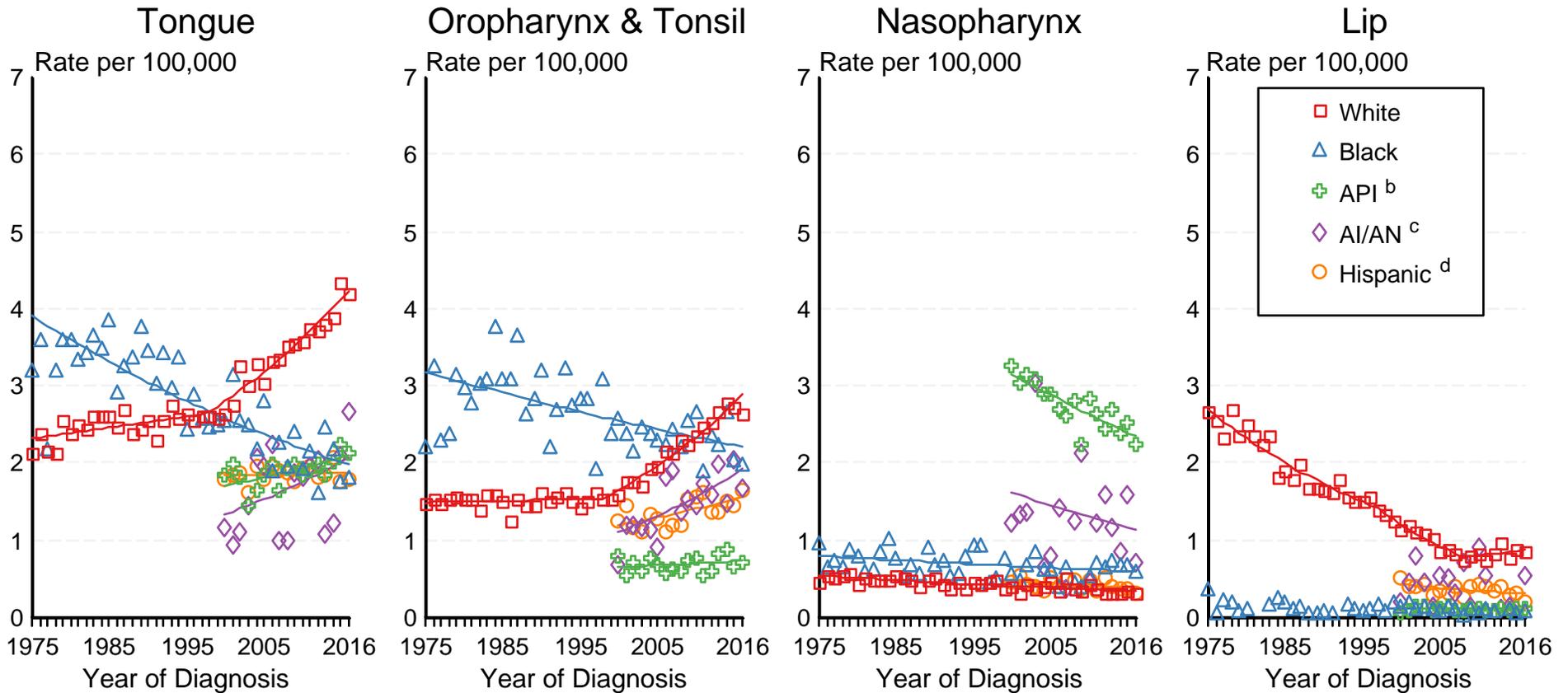
Figure 20.3

SEER Incidence Rates^a

Cancer of the Oral Cavity and Pharyngeal for Selected Subsites, Both Sexes

Joinpoint Analyses for Whites and Blacks from 1975-2016

and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

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

Regression lines are calculated using the Joinpoint Regression Program Version 4.7, February 2019, National Cancer Institute. Joinpoint analyses for Whites and Blacks during the 1975-2016 period allow a maximum of 5 joinpoints. Analyses for other ethnic groups during the period 2000-2016 allow a maximum of 3 joinpoints. Regression lines could not be calculated for data series that had at least one diagnosis year with a 0 case count.

^b API = Asian/Pacific Islander.

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

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

Table 21.11
Cancer of the Ovary (Invasive)

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

SEER Incidence	SEER 21 Areas ^b	SEER 21 Areas ^b	SEER 9 Areas ^b
	Rate 2012-2016	Trend 2007-2016 ^c	Trend 2007-2016 ^d
	Rate per 100,000 persons	AAPC (%)	AAPC (%)
Race/Ethnicity	Females	Females	Females
All Races	11.4	-1.7*	-2.3*
White	11.9	-1.8*	-2.4*
White Hispanic ^e	10.8	-1.1*	-
White Non-Hispanic ^e	12.1	-1.9*	-
Black	9.2	-0.9*	-0.5*
Asian/Pacific Islander	9.4	-0.6*	-
Amer Ind/Alaska Nat ^f	8.1	-3.4*	-
Hispanic ^e	10.3	-1.1*	-
<u>U.S. Mortality^g</u>			
	Rate 2012-2016	Trend 2007-2016 ^h	
	Rate per 100,000 persons	AAPC (%)	
Race/Ethnicity	Females	Females	
All Races	7.0	-2.3*	
White	7.3	-2.4*	
White Hispanic ^e	5.6	-1.4*	
White Non-Hispanic ^e	7.5	-2.4*	
Black	6.1	-1.6*	
Asian/Pacific Islander	4.4	-0.9*	
Amer Ind/Alaska Nat			
Total U.S.	4.6	-1.6	
PRCDA Counties	6.3	-1.2	
Non-PRCDA Counties	2.7	-1.9	
Hispanic ^e	5.2	-1.5*	

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

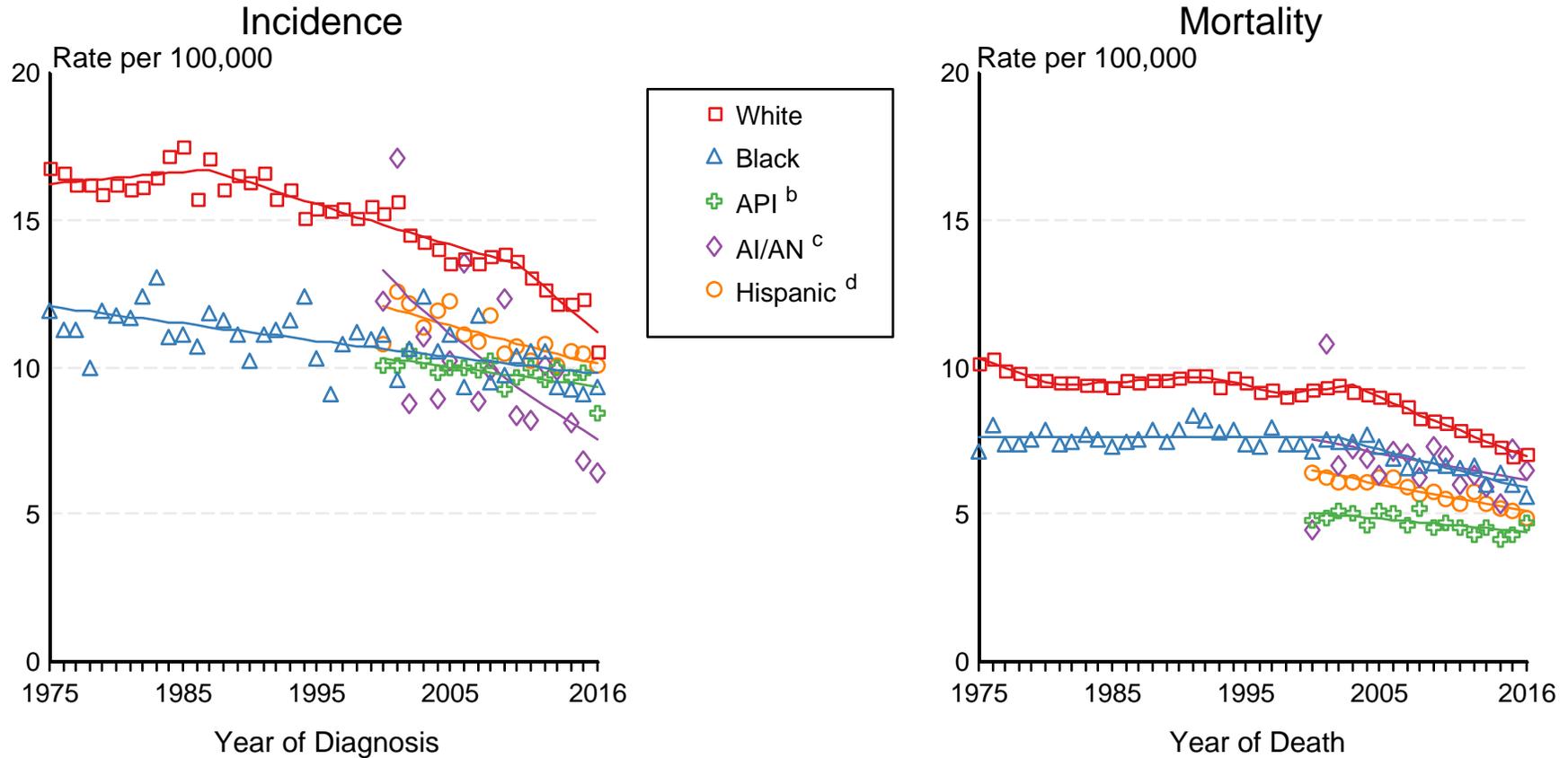
The 2007-2016 mortality AAPCs are based on a Joinpoint analysis using years of death 2000-2016.

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

Figure 21.3

SEER Incidence and US Death Rates^a Cancer of the Ovary

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



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts). Ovary excludes borderline cases or histologies 8442, 8451, 8462, 8472, and 8473.

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.
^a Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).

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

^b API = Asian/Pacific Islander.

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

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

Table 22.15
Cancer of the Pancreas (Invasive)

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

SEER Incidence	SEER 21 Areas ^b			SEER 21 Areas ^b			SEER 9 Areas ^b		
	Rate 2012-2016			Trend 2007-2016 ^c			Trend 2007-2016 ^d		
	Rate per 100,000 persons			AAPC (%)			AAPC (%)		
Race/Ethnicity	Total	Males	Females	Total	Males	Females	Total	Males	Females
All Races	12.9	14.6	11.5	0.4	0.4*	0.7*	0.3	0.1	0.9*
White	13.0	14.8	11.4	0.5*	0.4	0.8*	0.4	0.2	1.0*
White Hispanic ^e	11.7	12.5	11.0	0.3	0.3	0.3	-	-	-
White Non-Hispanic ^e	13.2	15.1	11.5	0.6*	0.5	0.8*	-	-	-
Black	15.2	16.7	14.0	0.2	0.3	0.1	-0.1	-0.3*	0.1
Asian/Pacific Islander	9.8	10.8	9.1	0.4*	0.4	0.5	-	-	-
Amer Ind/Alaska Nat ^f	9.5	11.4	8.0	-0.2	1.8	-2.2*	-	-	-
Hispanic ^e	11.3	12.0	10.7	0.3*	0.4	0.3	-	-	-
<u>U.S. Mortality^g</u>									
U.S. Mortality ^g	Rate 2012-2016			Trend 2007-2016 ^h					
	Rate per 100,000 persons			AAPC (%)					
	Total	Males	Females	Total	Males	Females			
All Races	11.0	12.6	9.6	0.3*	0.3*	0.2*			
White	10.9	12.6	9.4	0.4*	0.4*	0.3*			
White Hispanic ^e	9.0	10.0	8.1	0.2	0.2	0.1			
White Non-Hispanic ^e	11.1	12.9	9.5	0.4*	0.4*	0.4*			
Black	13.3	14.8	12.2	-0.3*	-0.3*	-0.3*			
Asian/Pacific Islander	7.6	8.2	7.1	0.2	0.1	0.2			
Amer Ind/Alaska Nat									
Total U.S.	6.7	7.2	6.3	0.2	0.2	0.0			
PRCDA Counties	8.9	9.9	8.0	0.8	-0.7	0.2			
Non-PRCDA Counties	4.3	4.3	4.3	-0.5	-1.2	0.2			
Hispanic ^e	8.5	9.4	7.7	0.0	0.1	0.0			

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

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

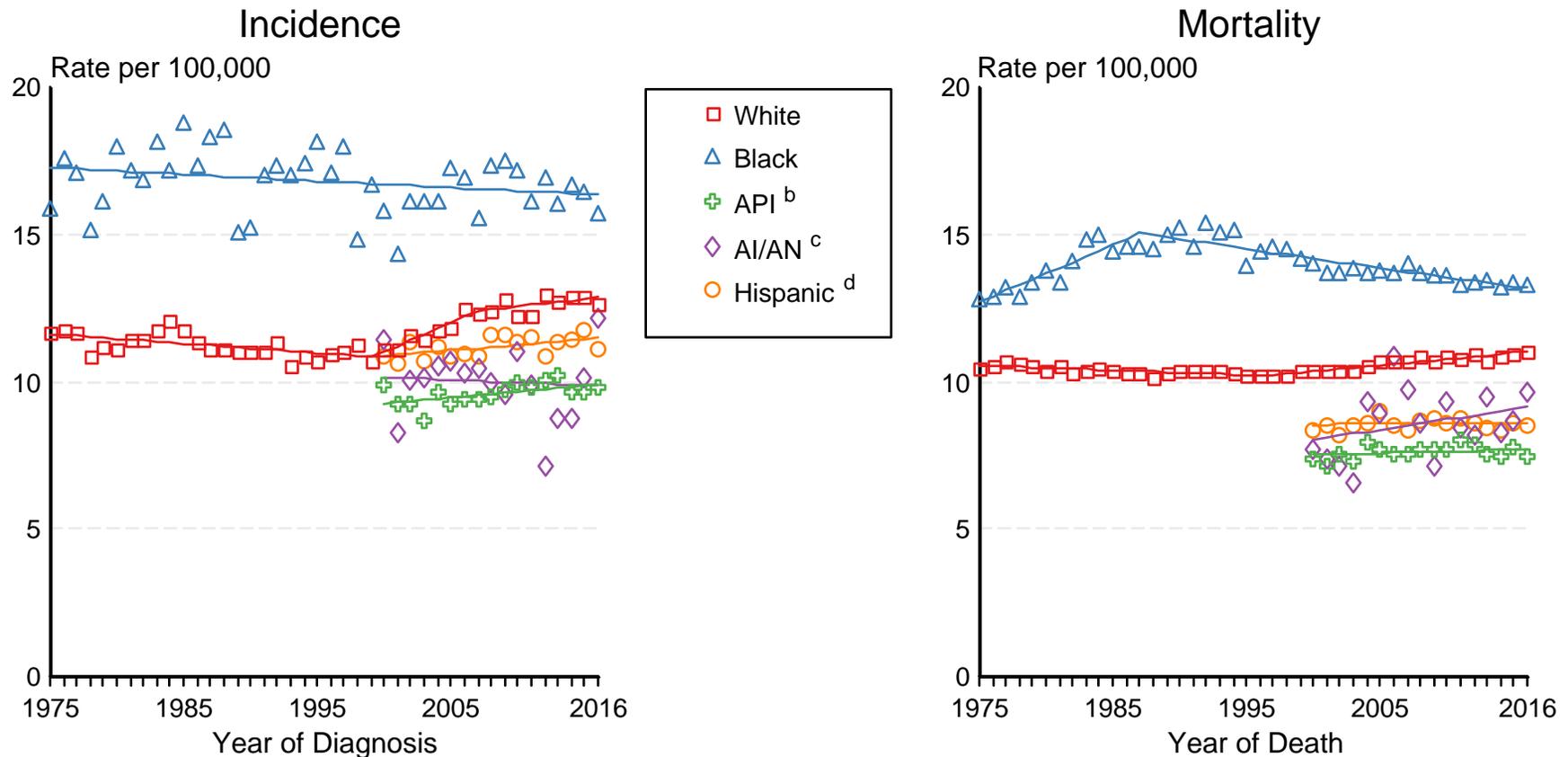
The APC is significantly different from zero (p<.05).

Figure 22.2

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

Joinpoint Analyses for Whites and Blacks from 1975-2016

and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

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

^b API = Asian/Pacific Islander.

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

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

Table 23.11
Cancer of the Prostate (Invasive)

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

SEER Incidence	SEER 21 Areas ^b	SEER 21 Areas ^b	SEER 9 Areas ^b
	Rate 2012-2016	Trend 2007-2016 ^c	Trend 2007-2016 ^d
	Rate per 100,000 persons	AAPC (%)	AAPC (%)
Race/Ethnicity	Males	Males	Males
All Races	109.5	-5.2*	-4.9*
White	101.9	-5.7*	-5.8*
White Hispanic ^e	86.8	-7.0*	-
White Non-Hispanic ^e	104.5	-5.5*	-
Black	176.7	-4.0*	-4.5*
Asian/Pacific Islander	55.6	-6.3*	-
Amer Ind/Alaska Nat ^f	55.4	-6.4*	-
Hispanic ^e	93.4	-6.0*	-
<u>U.S. Mortality^g</u>			
	Rate 2012-2016	Trend 2007-2016 ^h	
	Rate per 100,000 persons	AAPC (%)	
Race/Ethnicity	Males	Males	
All Races	19.2	-2.4*	
White	18.0	-2.2*	
White Hispanic ^e	16.5	-2.7*	
White Non-Hispanic ^e	18.1	-2.1*	
Black	38.9	-4.0*	
Asian/Pacific Islander	8.6	-2.5*	
Amer Ind/Alaska Nat			
Total U.S.	14.2	-2.7*	
PRCDA Counties	19.2	-1.4*	
Non-PRCDA Counties	8.6	-4.7*	
Hispanic ^e	15.8	-2.8*	

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

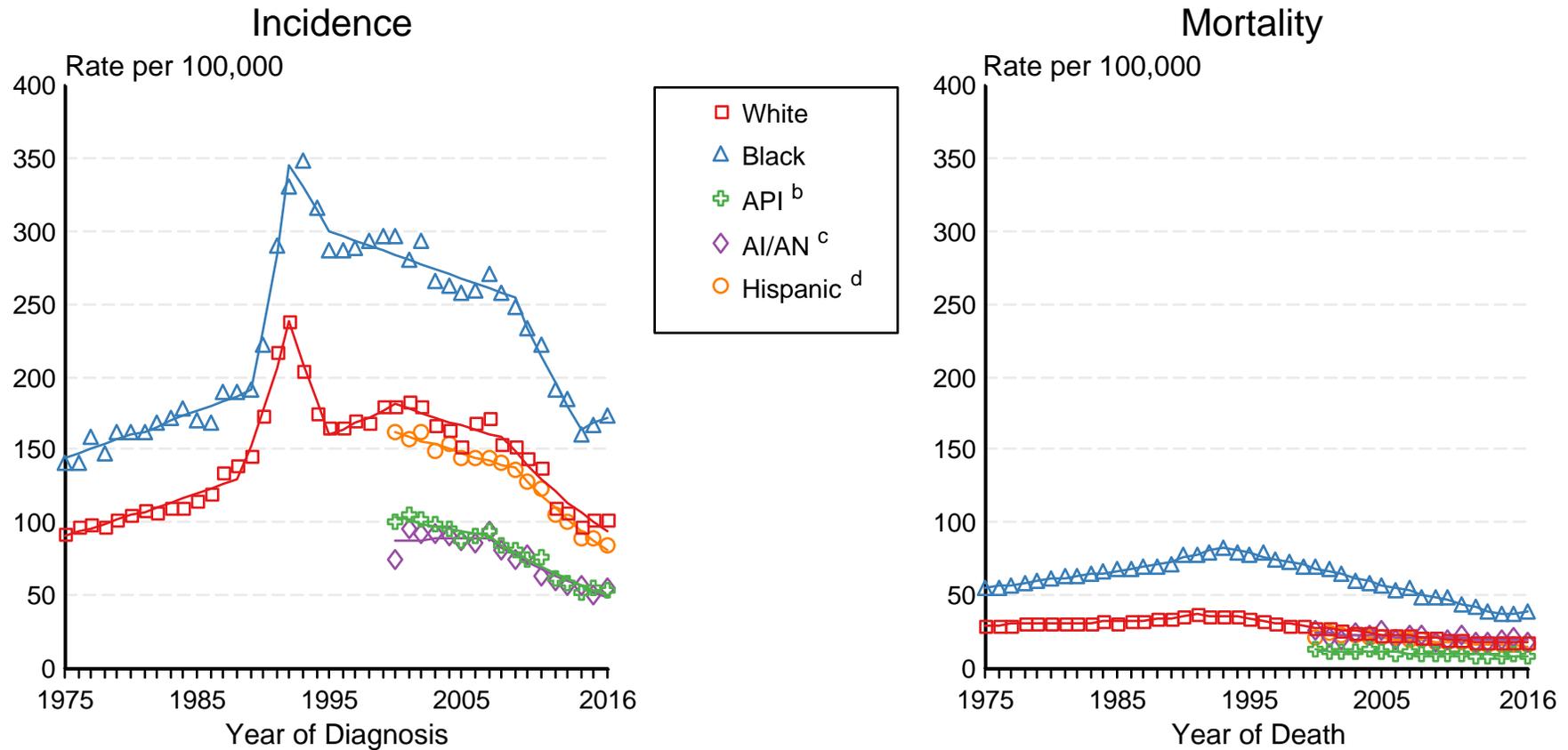
The 2007-2016 mortality AAPCs are based on a Joinpoint analysis using years of death 2000-2016.

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

Figure 23.3

SEER Incidence and US Death Rates^a Cancer of the Prostate

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



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

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

^b API = Asian/Pacific Islander.

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

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

Table 24.15
Cancer of the Stomach (Invasive)

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

SEER Incidence	SEER 21 Areas ^b			SEER 21 Areas ^b			SEER 9 Areas ^b		
	Rate 2012-2016			Trend 2007-2016 ^c			Trend 2007-2016 ^d		
	Rate per 100,000 persons			AAPC (%)			AAPC (%)		
Race/Ethnicity	Total	Males	Females	Total	Males	Females	Total	Males	Females
All Races	7.4	10.0	5.3	-1.1*	-1.5*	-0.7*	-1.5*	-1.8*	-0.9*
White	6.6	8.9	4.6	-1.0*	-1.6*	-0.7*	-1.3*	-1.8*	-1.0*
White Hispanic ^e	10.8	13.4	8.8	-1.8*	-2.2*	-1.4*	-	-	-
White Non-Hispanic ^e	5.8	8.2	3.8	-1.3*	-1.7*	-1.1*	-	-	-
Black	10.3	14.1	7.7	-1.9*	-2.8	-1.7*	-1.7*	-2.1*	-0.9*
Asian/Pacific Islander	10.9	14.3	8.2	-2.8*	-2.9*	-2.7*	-	-	-
Amer Ind/Alaska Nat ^f	8.7	11.5	6.4	-2.4*	-2.7*	-2.2	-	-	-
Hispanic ^e	10.4	13.0	8.5	-1.7*	-2.1*	-1.3*	-	-	-
<u>U.S. Mortality^g</u>									
U.S. Mortality ^g	Rate 2012-2016			Trend 2007-2016 ^h					
	Rate per 100,000 persons			AAPC (%)					
	Total	Males	Females	Total	Males	Females			
All Races	3.1	4.2	2.3	-2.1*	-2.4*	-1.9*			
White	2.7	3.7	2.0	-2.0*	-2.4*	-1.7*			
White Hispanic ^e	5.4	6.9	4.3	-2.3*	-2.8*	-1.8*			
White Non-Hispanic ^e	2.4	3.3	1.7	-2.6*	-2.9*	-3.0*			
Black	5.5	8.2	3.8	-3.2*	-3.1*	-3.6*			
Asian/Pacific Islander	5.3	6.8	4.2	-2.8*	-3.7*	-3.4*			
Amer Ind/Alaska Nat									
Total U.S.	3.4	4.6	2.5	-3.5*	-3.9*	-3.4*			
PRCDA Counties	5.0	6.9	3.6	-3.2*	-3.3*	-3.5*			
Non-PRCDA Counties	1.6	2.0	1.3	-2.2*	-4.1*	-0.7			
Hispanic ^e	5.1	6.5	4.0	-2.4*	-2.9*	-1.9*			

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

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

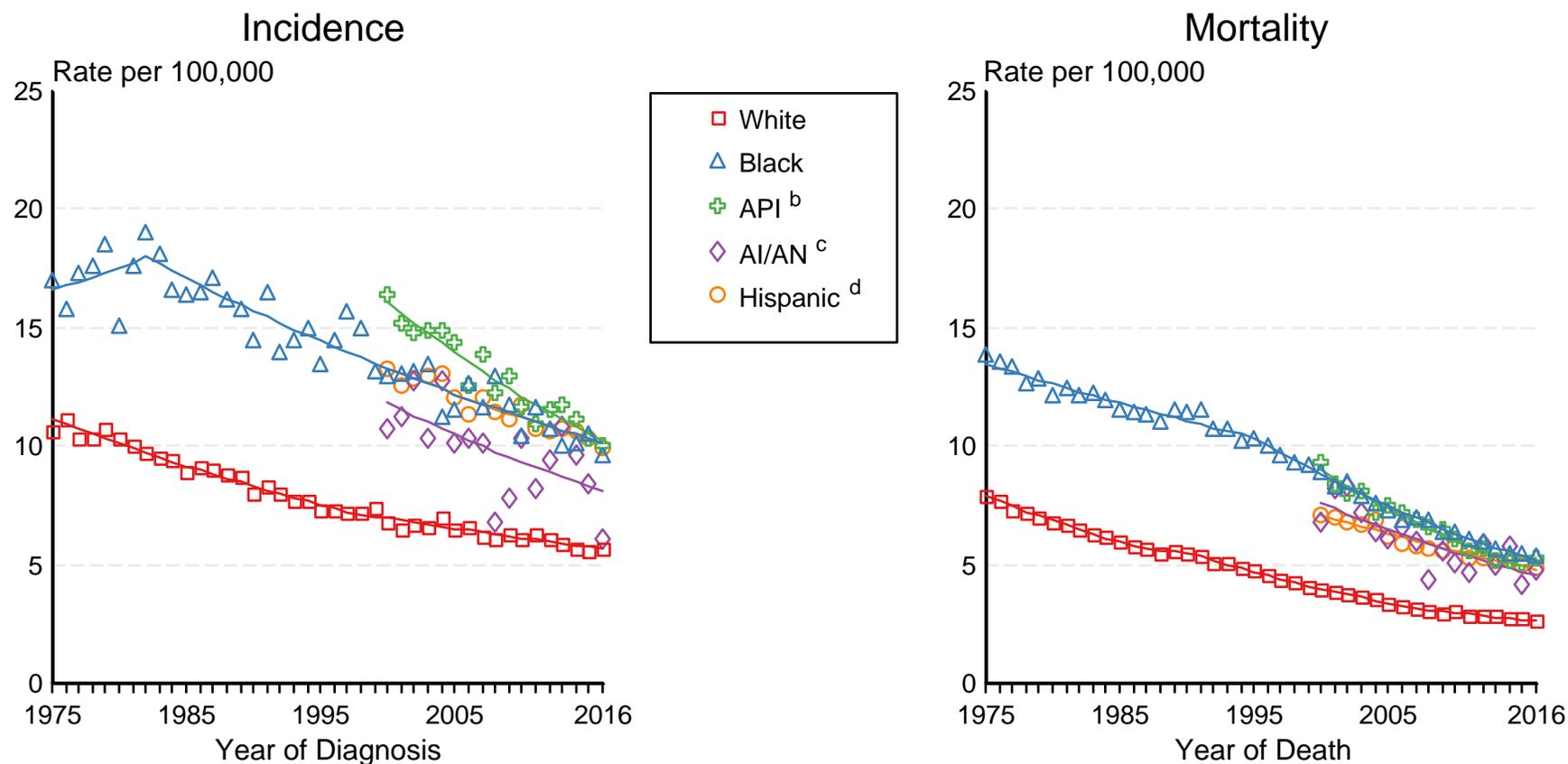
The APC is significantly different from zero (p<.05).

Figure 24.2

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

Joinpoint Analyses for Whites and Blacks from 1975-2016

and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

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

^b API = Asian/Pacific Islander.

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

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

Table 25.11
Cancer of the Testis (Invasive)

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

SEER Incidence	SEER 21 Areas ^b		SEER 21 Areas ^b		SEER 9 Areas ^b	
	Rate 2012-2016		Trend 2007-2016 ^c		Trend 2007-2016 ^d	
	Rate per 100,000 persons		AAPC (%)		AAPC (%)	
Race/Ethnicity	Males		Males		Males	
All Races	5.9		0.7*		0.8*	
White	7.0		0.7*		0.9*	
White Hispanic ^e	5.5		2.7*		-	
White Non-Hispanic ^e	7.5		0.5*		-	
Black	1.6		2.3*		2.0*	
Asian/Pacific Islander	2.2		2.0*		-	
Amer Ind/Alaska Nat ^f	5.2		2.1		-	
Hispanic ^e	5.2		2.6*		-	
<u>U.S. Mortality^g</u>						
Race/Ethnicity	Rate 2012-2016		Trend 2007-2016 ^h			
	Rate per 100,000 persons		AAPC (%)			
	Males		Males			
All Races	0.3		0.0			
White	0.3		0.4			
White Hispanic ^e	0.3		1.2			
White Non-Hispanic ^e	0.3		0.1			
Black	0.1		-2.4*			
Asian/Pacific Islander	0.1		-1.1			
Amer Ind/Alaska Nat						
Total U.S.	0.3		-			
PRCDA Counties	0.4		-			
Non-PRCDA Counties	-		-			
Hispanic ^e	0.3		0.9			

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

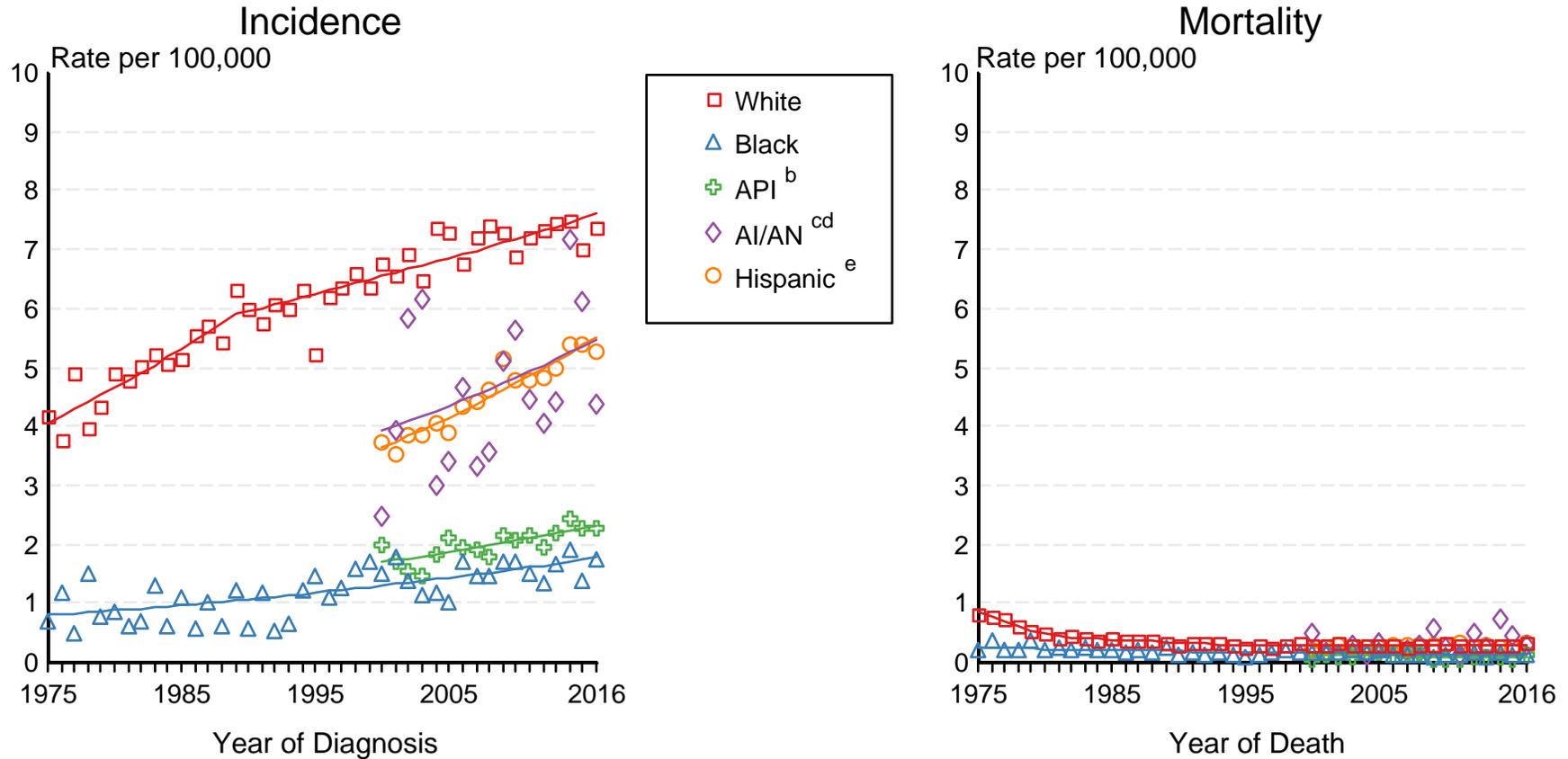
The 2007-2016 mortality AAPCs are based on a Joinpoint analysis using years of death 2000-2016.

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

Figure 25.3

SEER Incidence and US Death Rates^a Cancer of the Testis

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



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

^a Mortality data are from US Mortality Files, National Center for Health Statistics, CDC. Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103). Regression lines are calculated using the Joinpoint Regression Program Version 4.7, February 2019, National Cancer Institute. Joinpoint analyses for Whites and Blacks during the 1975-2016 period allow a maximum of 5 joinpoints. Analyses for other ethnic groups during the period 2000-2016 allow a maximum of 3 joinpoints.

^b Blacks during the 1975-2016 period allow a maximum of 5 joinpoints. Analyses for other ethnic groups during the period 2000-2016 allow a maximum of 3 joinpoints.

^c API = Asian/Pacific Islander.

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

^e Joinpoint could not fit a regression line for American Indian/Alaska Native Mortality due to insufficient data. 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.

Table 26.15
Cancer of the Thyroid (Invasive)

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

SEER Incidence	SEER 21 Areas ^b Rate 2012-2016			SEER 21 Areas ^b Trend 2007-2016 ^c AAPC (%)			SEER 9 Areas ^b Trend 2007-2016 ^d AAPC (%)		
	Rate per 100,000 persons			Total			Total		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
Race/Ethnicity									
All Races	15.8	8.0	23.3	2.2*	2.9*	2.1*	1.9*	2.4*	2.0*
White	16.5	8.6	24.5	2.0*	2.7*	1.9*	1.7*	2.3*	1.9*
White Hispanic ^e	14.3	5.9	22.5	3.2*	3.9*	3.2*	-	-	-
White Non-Hispanic ^e	17.4	9.3	25.4	1.9*	2.8*	1.7*	-	-	-
Black	9.6	4.0	14.3	2.6	1.9	2.9*	2.3*	3.0*	2.6*
Asian/Pacific Islander	15.6	7.7	22.6	2.6*	3.7*	2.2*	-	-	-
Amer Ind/Alaska Nat ^f	9.3	4.1	14.2	3.6*	3.4	4.2*	-	-	-
Hispanic ^e	13.9	5.7	21.9	3.6*	4.0*	3.7*	-	-	-
U.S. Mortality ^g	Rate 2012-2016			Trend 2007-2016 ^h					
	Rate per 100,000 persons			AAPC (%)					
	Total	Males	Females	Total	Males	Females			
Race/Ethnicity									
All Races	0.5	0.5	0.5	0.6*	1.1*	0.3			
White	0.5	0.5	0.5	0.7*	1.1*	0.3			
White Hispanic ^e	0.7	0.6	0.7	0.9*	0.9	1.0*			
White Non-Hispanic ^e	0.5	0.5	0.4	0.6*	1.1*	0.1			
Black	0.5	0.4	0.6	0.4	0.9	0.2			
Asian/Pacific Islander	0.6	0.5	0.6	-0.2	1.4	-0.9			
Amer Ind/Alaska Nat									
Total U.S.	0.4	0.4	0.4	0.9	-	-1.1			
PRCDA Counties	0.4	0.5	0.4	-1.1	-	-3.5			
Non-PRCDA Counties	0.3	-	-	-	-	-			
Hispanic ^e	0.6	0.6	0.7	0.7	0.7	0.8			

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

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

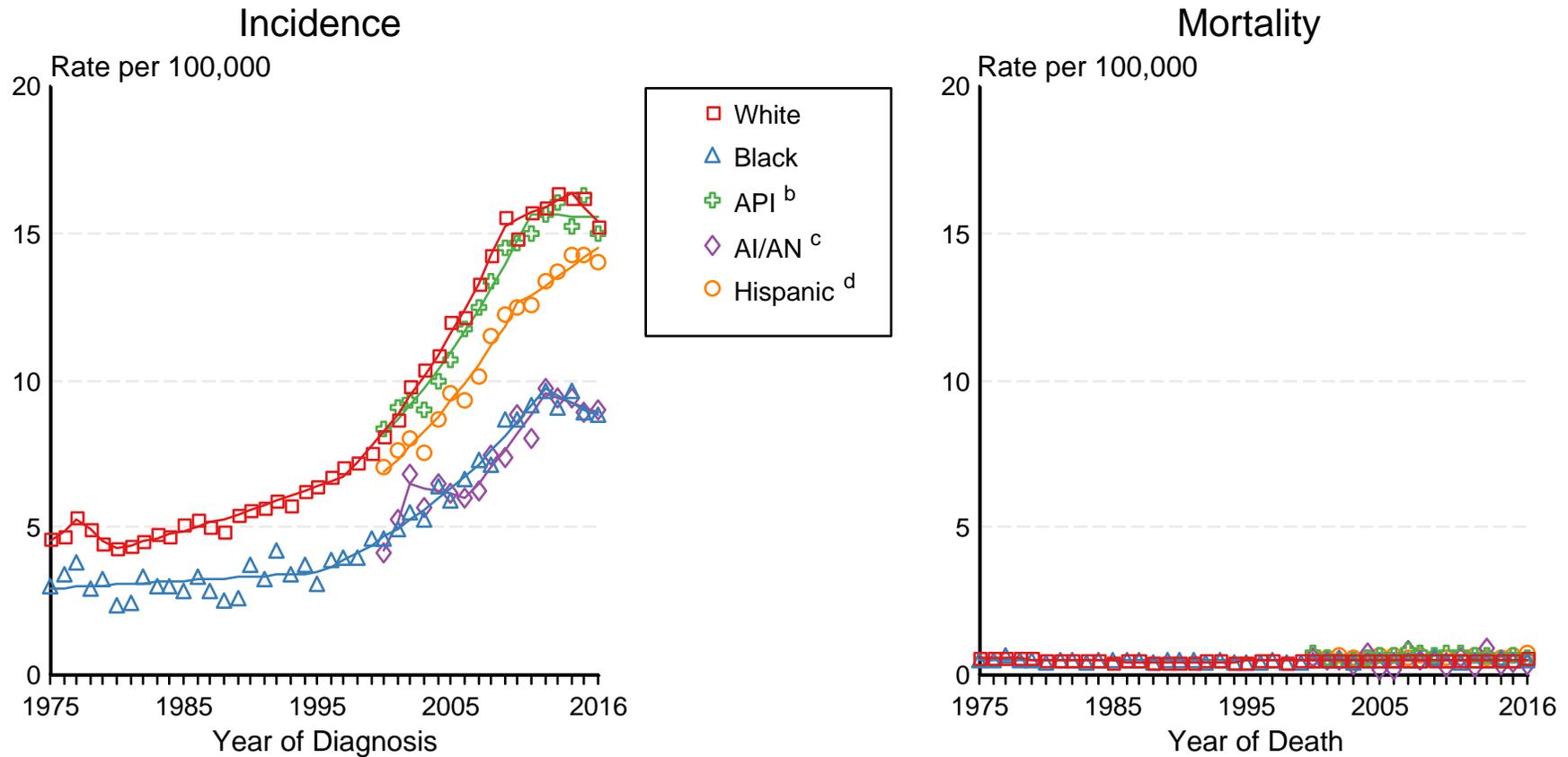
The APC is significantly different from zero (p<.05).

Figure 26.2

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

Joinpoint Analyses for Whites and Blacks from 1975-2016

and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

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

^b API = Asian/Pacific Islander.

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

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

Table 27.15
Cancer of the Urinary Bladder

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

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

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

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

Trend based on less than 10 cases for at least one year within the time interval.

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

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

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

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

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

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

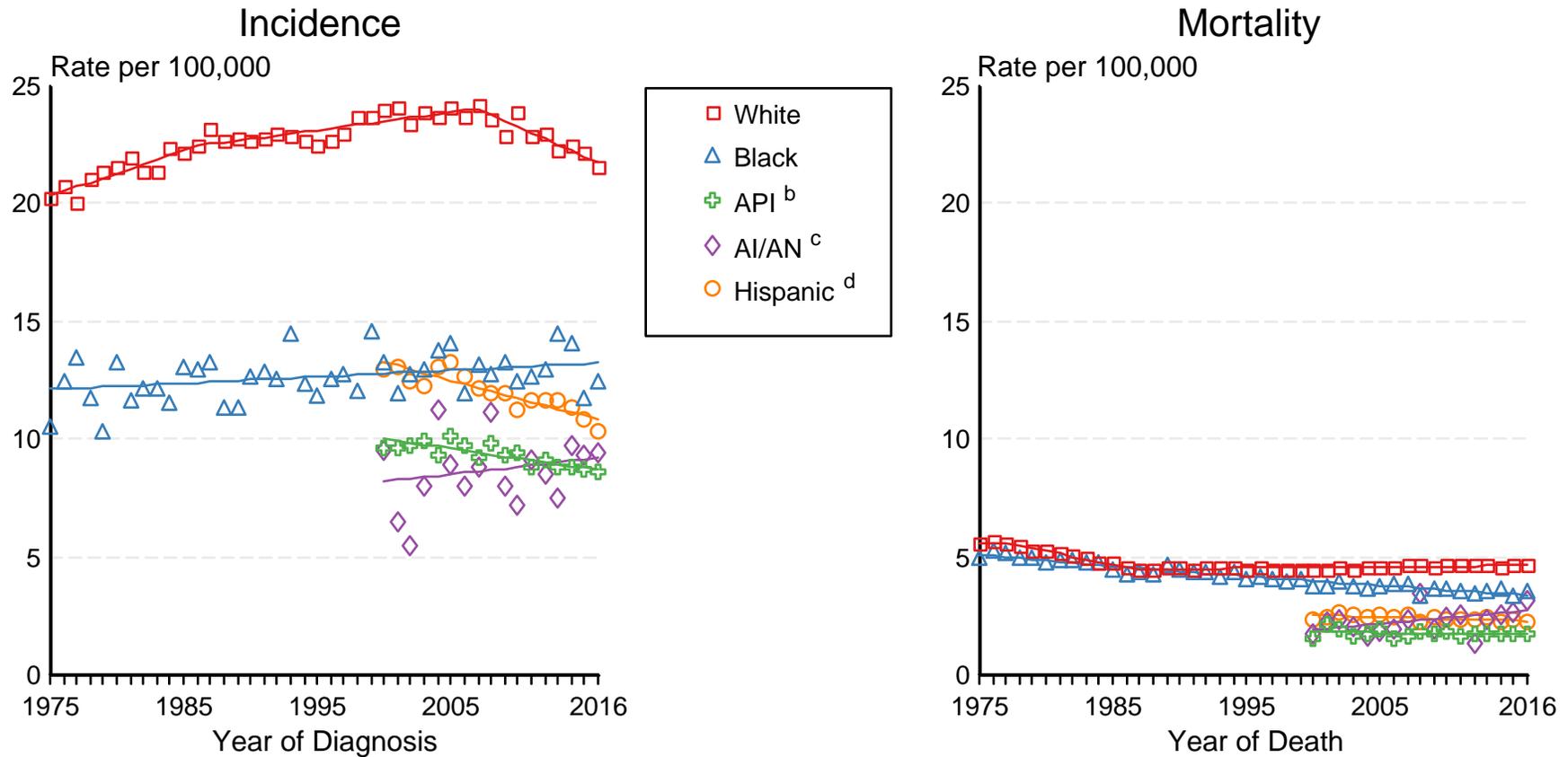
The 2007-2016 mortality AAPCs are based on a Joinpoint analysis using years of death 2000-2016.

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

Figure 27.2

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

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



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

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

^b API = Asian/Pacific Islander.

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

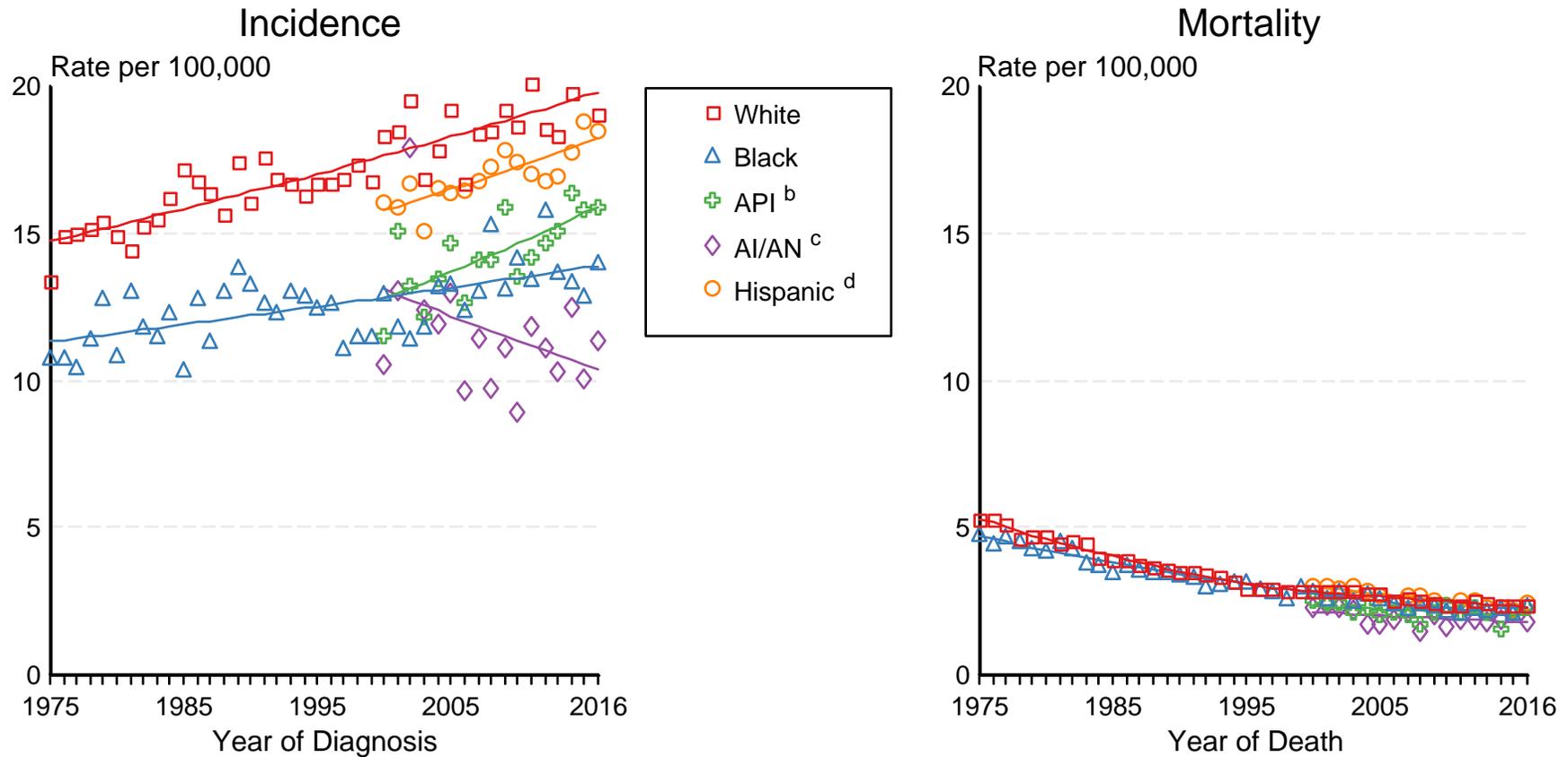
^d Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

Figure 28.3

SEER Incidence and US Death Rates^a All Cancer Sites, Ages <20, Both Sexes

Joinpoint Analyses for Whites and Blacks from 1975-2016

and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

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

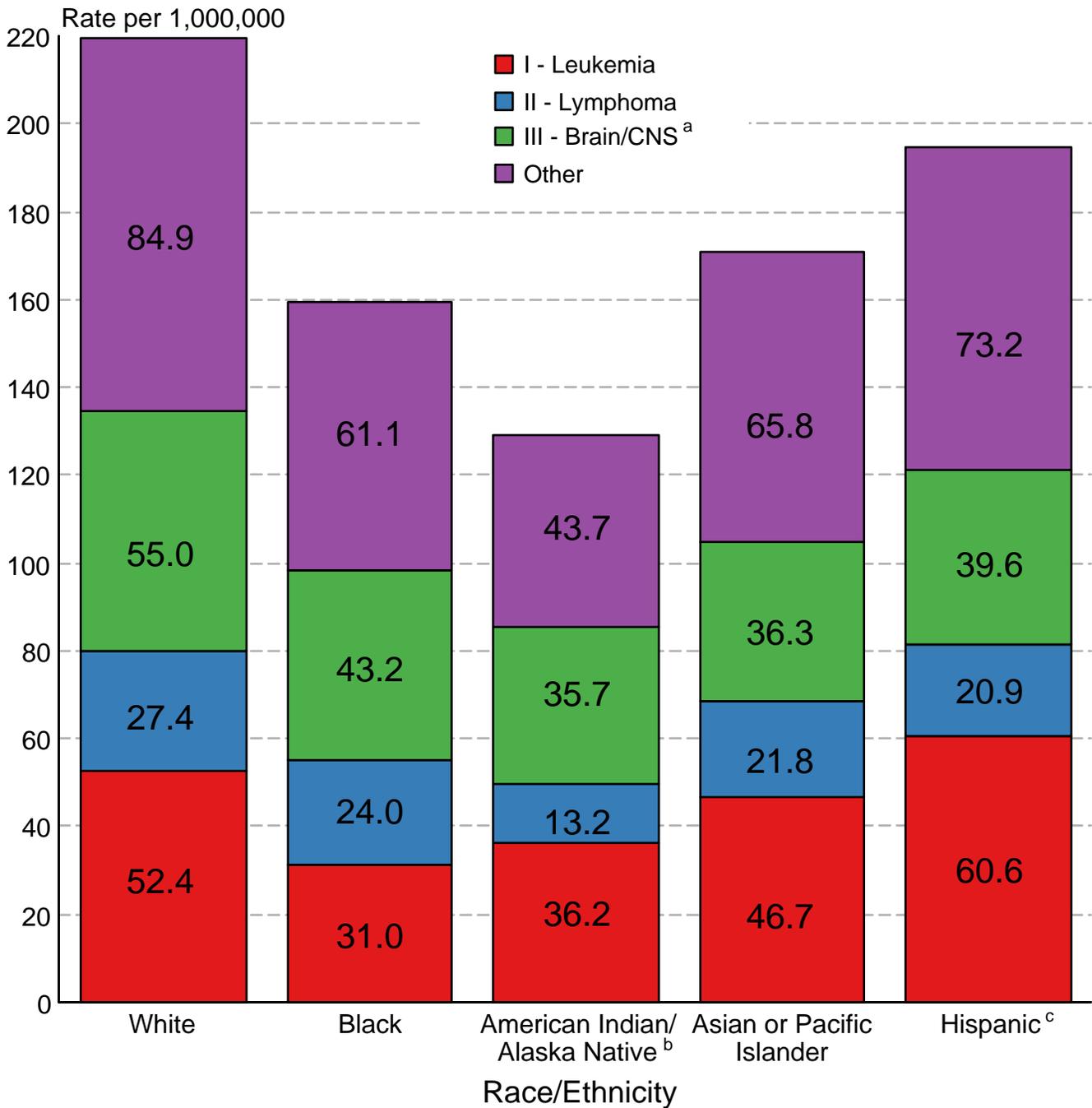
^b API = Asian/Pacific Islander.

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

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

Figure 29.2

Childhood Cancer: SEER Incidence Rates 2012- 2016 by ICCC Group and Race/Ethnicity (includes myelodysplastic syndromes and Group III benign brain) Both Sexes, Under 20 Years of Age



Source: SEER 21 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

Incidence rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

International Classification of Childhood Cancer is based on ICD-O-3. Steliarova-Foucher E, Stiller C, Lacour B, Kaatsch P. International Classification of Childhood Cancer, Third Edition. Cancer. April 1, 2005; Vol 103, No. 7 , pg 1457-1467.

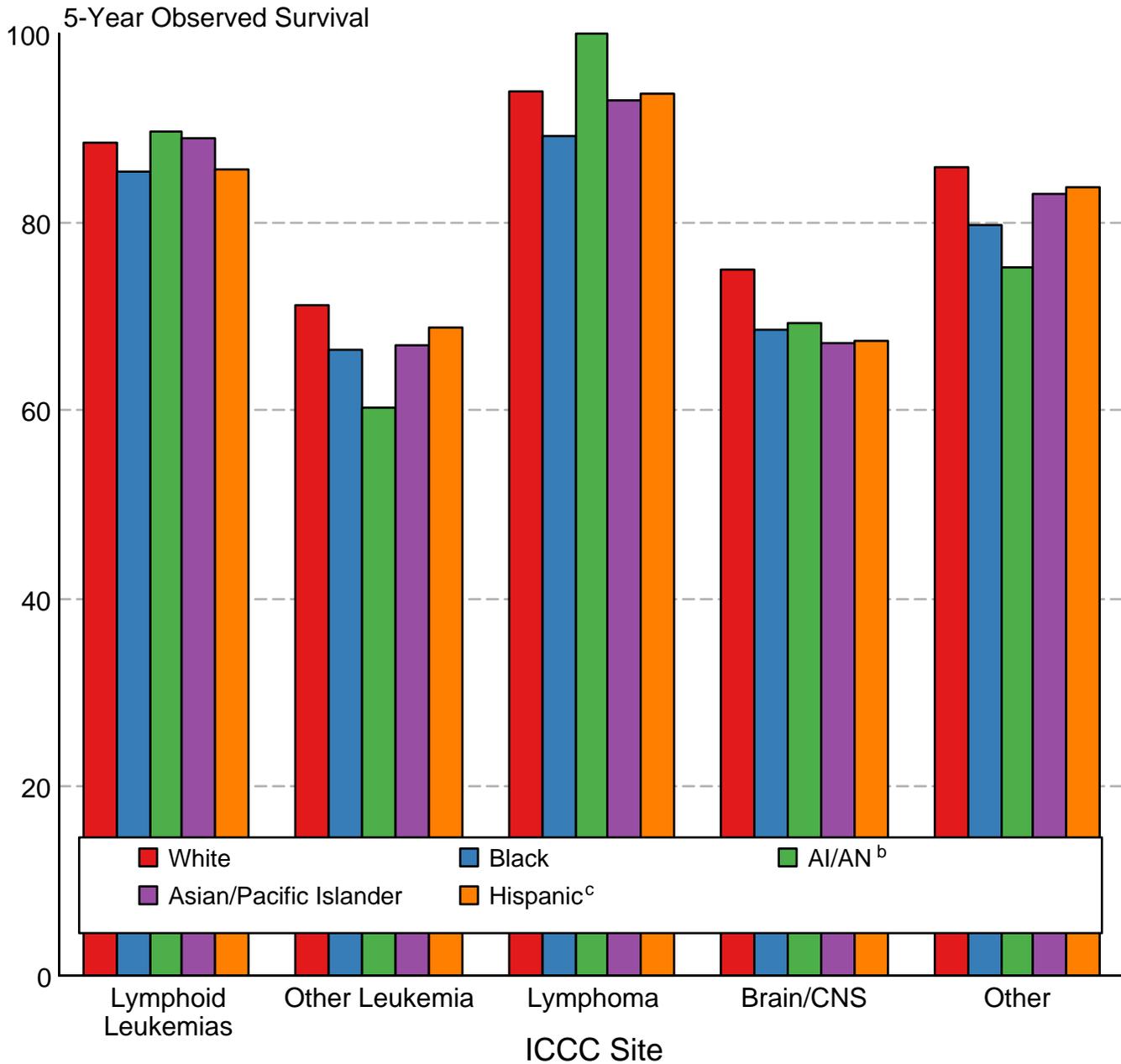
^a Rate for Group III (Brain/CNS) includes benign brain tumors.

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

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

Figure 29.3

Childhood Cancer 5-Year Observed Survival (%) by ICCC Group^a and Race/Ethnicity Both Sexes, Under 20 Years of Age, 2009-2015



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).

International Classification of Childhood Cancer is based on ICD-O-3. Steliarova-Foucher E, Stiller C, Lacour B, Kaatsch P. International Classification of Childhood Cancer, Third Edition. Cancer. April 1, 2005; Vol 103, No. 7, pg 1457-1467.

^a Excludes myelodysplastic syndromes (MDS) and benign brain tumors.

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

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