

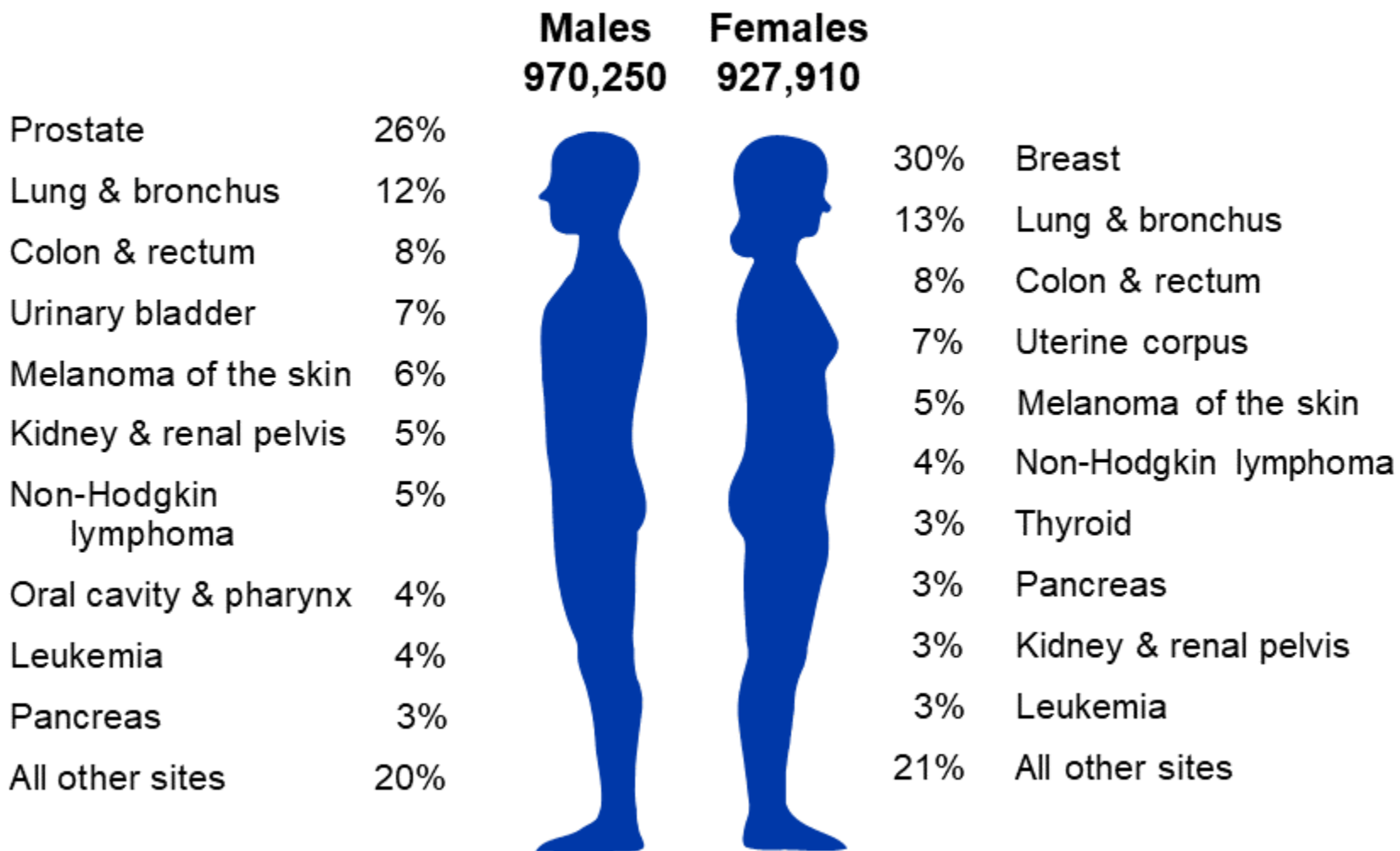
# Cancer Statistics 2021

A Presentation from the  
American Cancer Society

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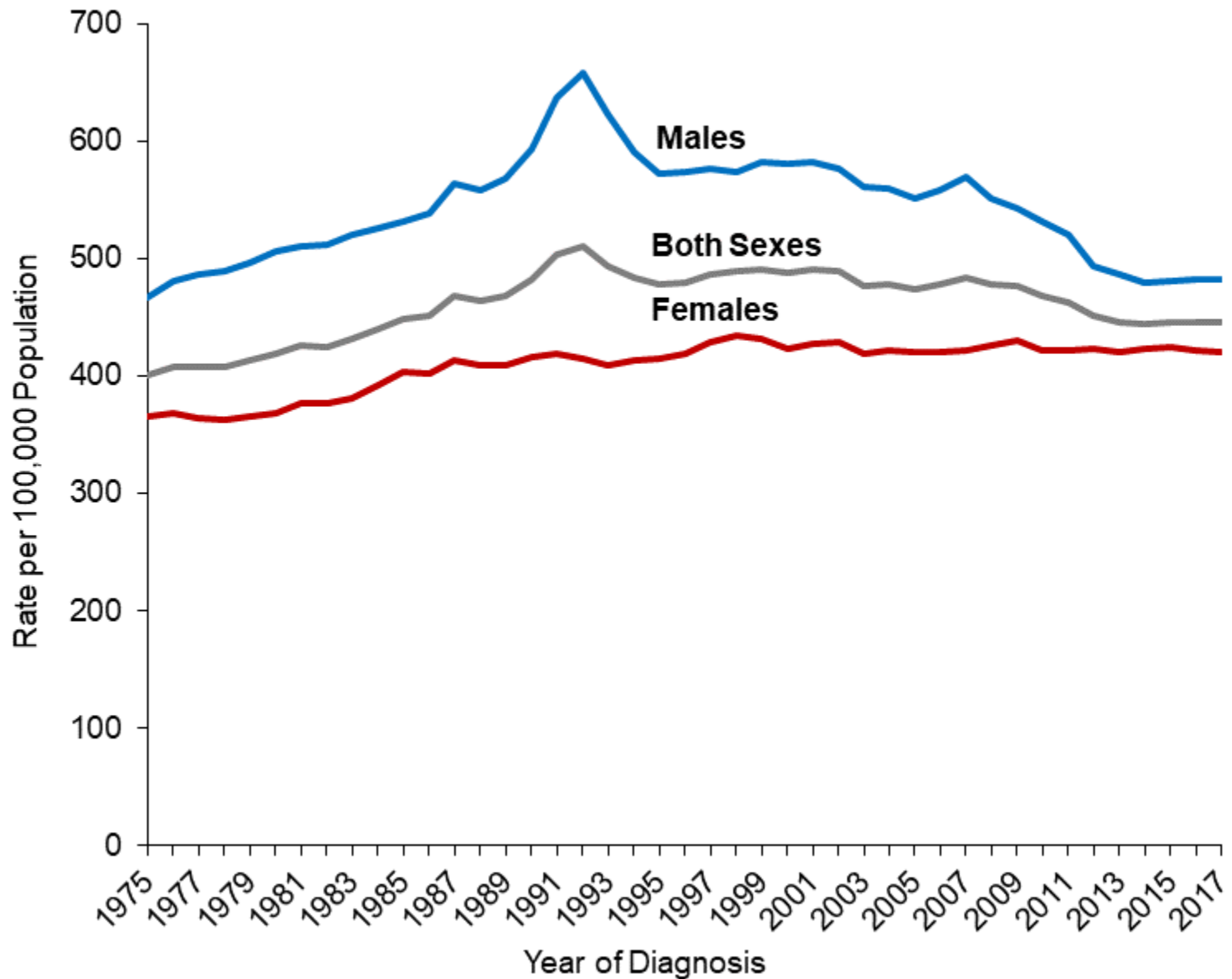


# Estimated New Cancer Cases\* in the US in 2021



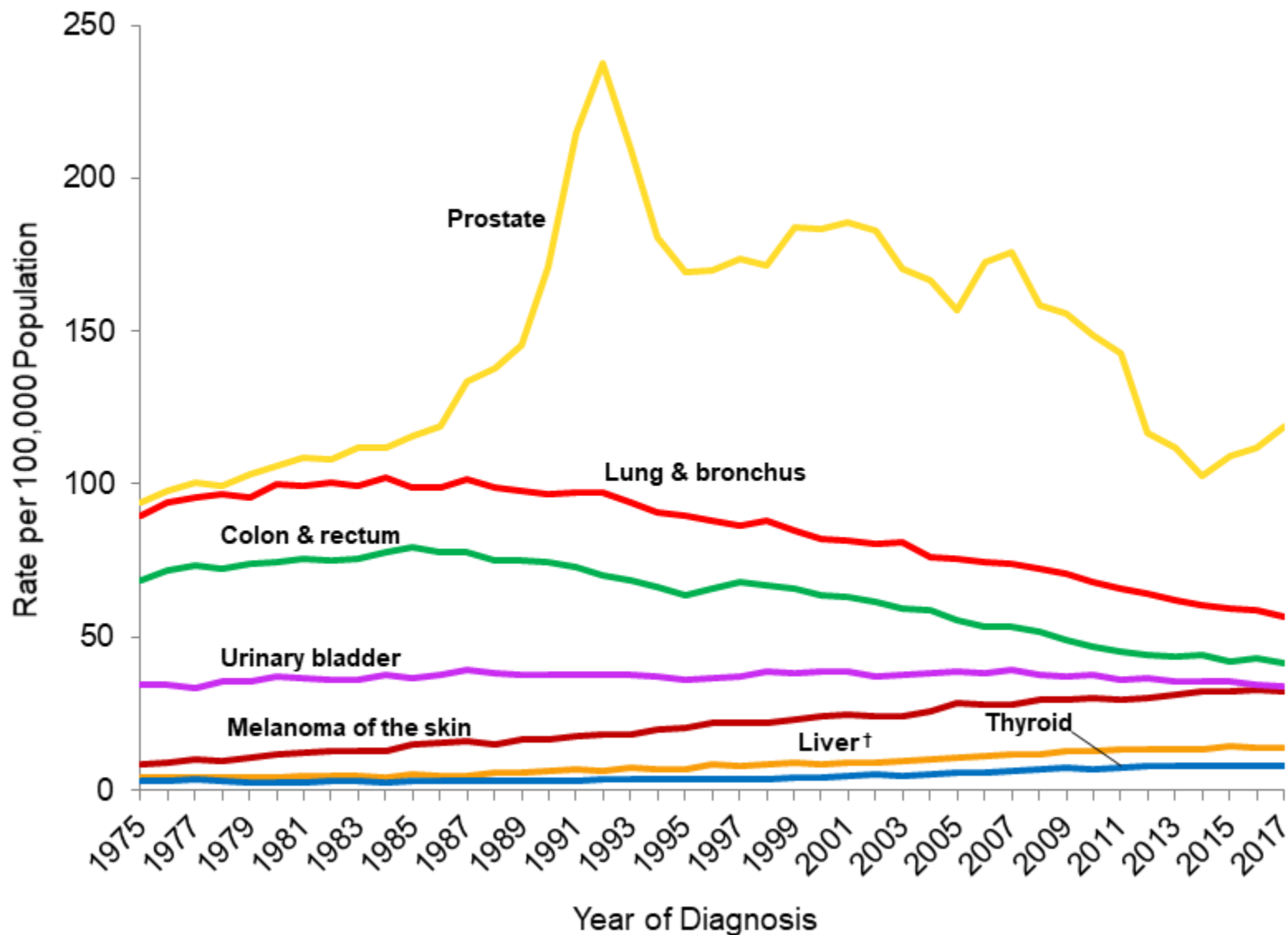
\*Excludes basal cell and squamous cell skin cancers and in situ carcinoma except urinary bladder.

## Trends in Cancer Incidence Rates\*, US, 1975-2017



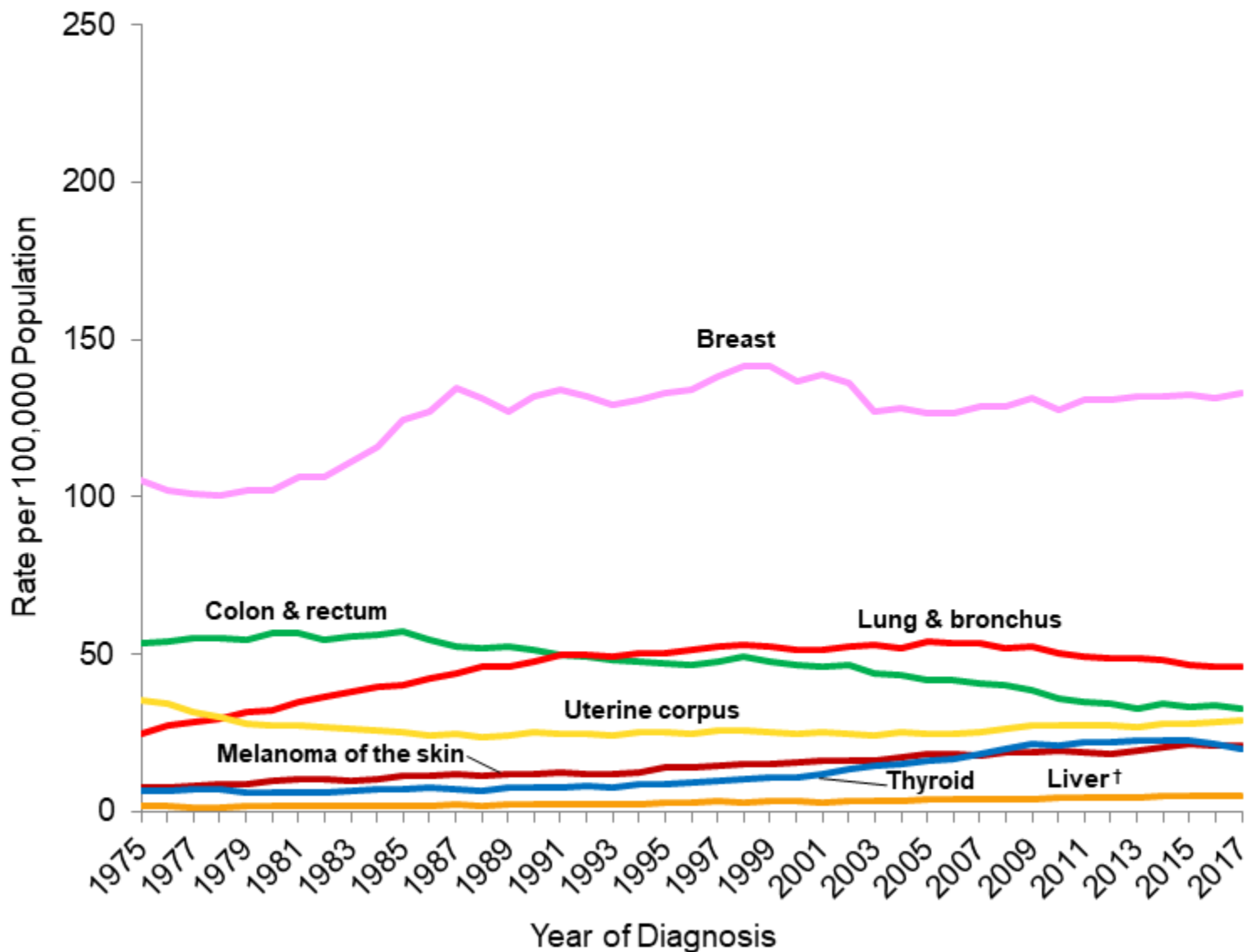
\*Age-adjusted to the 2000 US standard population and adjusted for delays in reporting.  
Source: Surveillance, Epidemiology, and End Results (SEER) Program, National Cancer Institute, 2020.

# Trends in Cancer Incidence Rates\* Among Males, US, 1975-2017



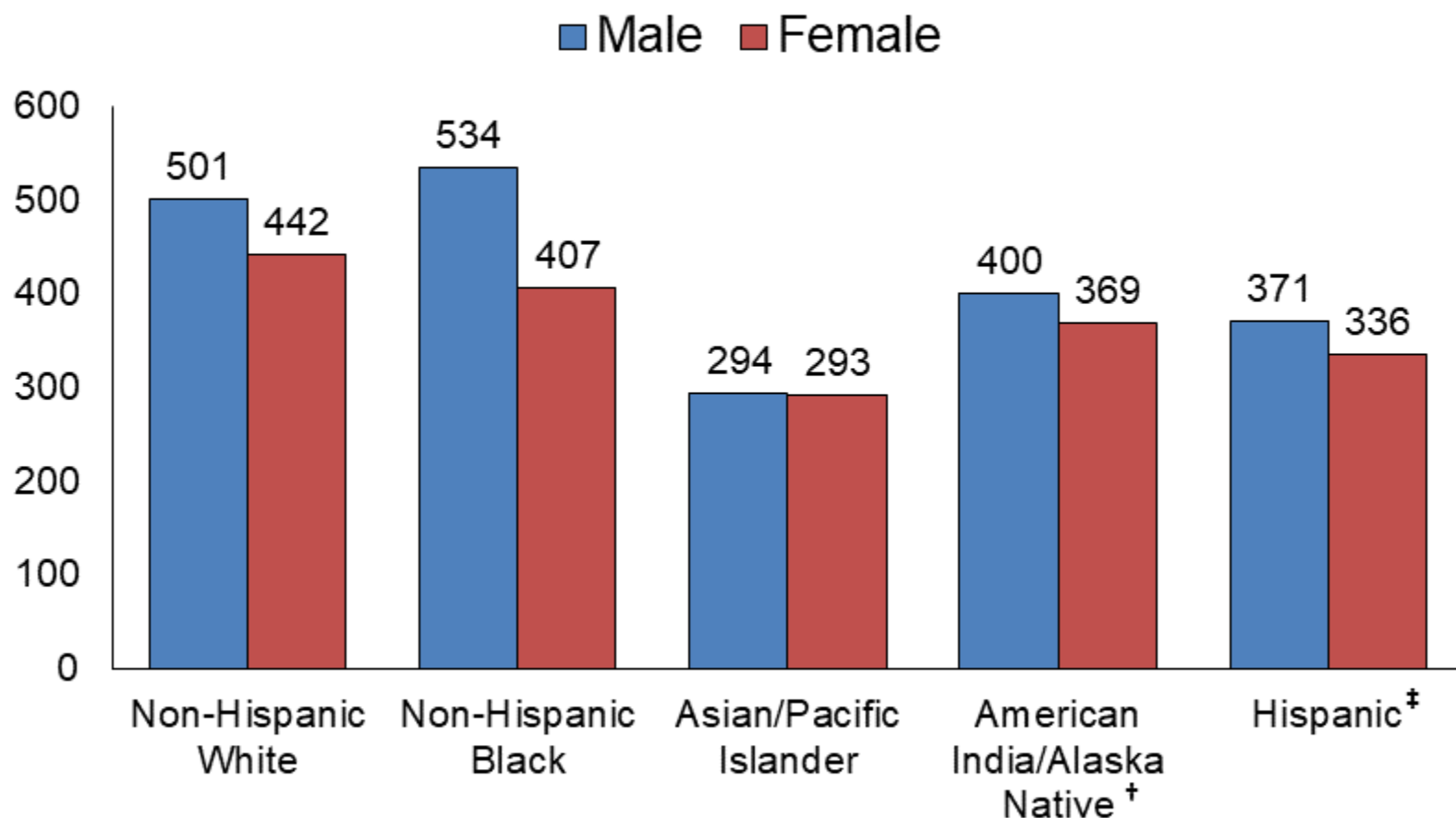
\*Age-adjusted to the 2000 US standard population and adjusted for delays in reporting. †Includes the intrahepatic bile duct. Source: Surveillance, Epidemiology, and End Results (SEER) Program, National Cancer Institute, 2020.

# Trends in Cancer Incidence Rates\* Among Females, US, 1975-2017



\*Age-adjusted to the 2000 US standard population and adjusted for delays in reporting. †Includes the intrahepatic bile duct. Source: Surveillance, Epidemiology, and End Results (SEER) Program, National Cancer Institute, 2020.

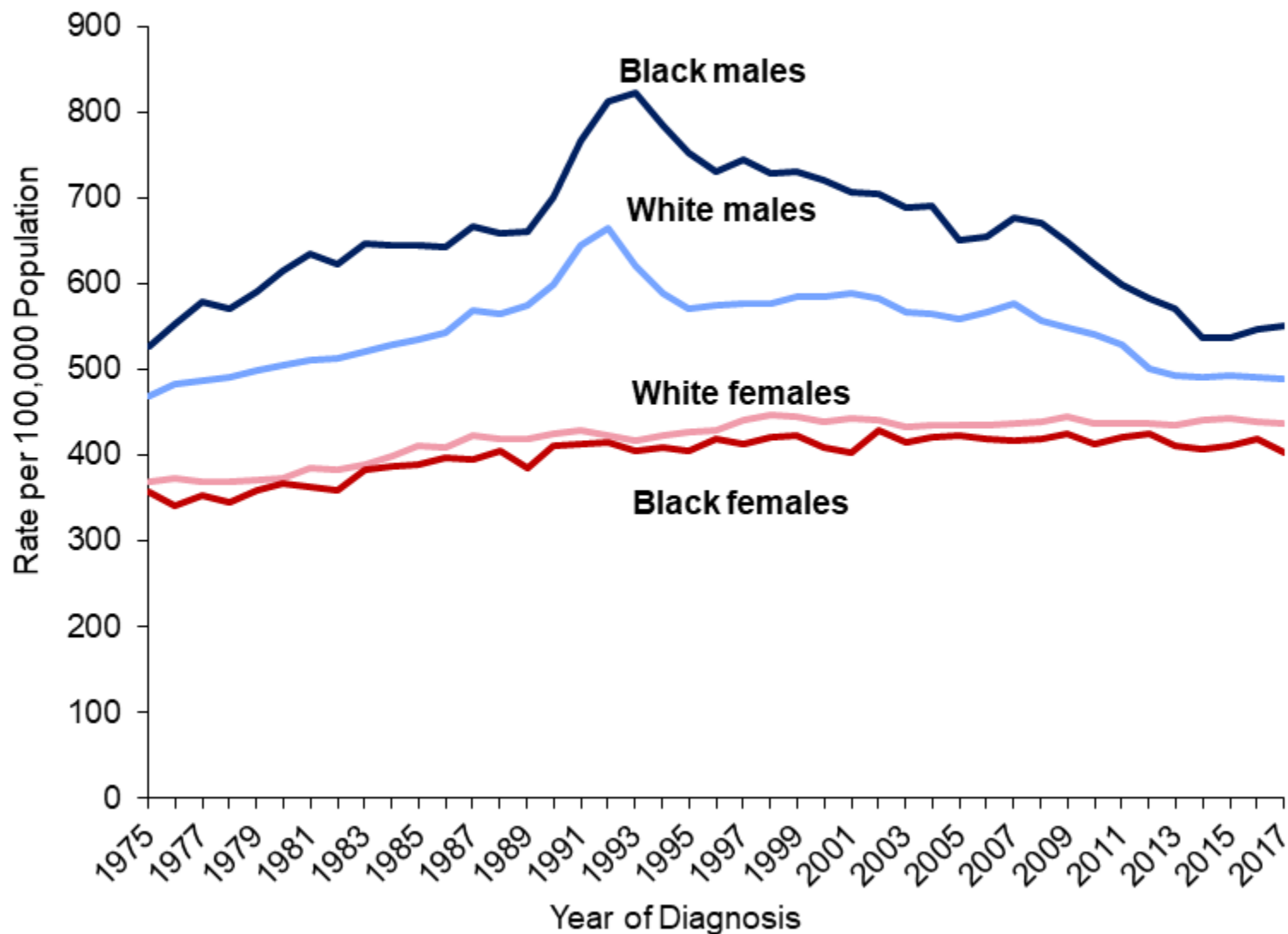
## Cancer Incidence Rates\* by Race and Ethnicity, 2013-2017



\*Age-adjusted to the 2000 US standard population. <sup>†</sup>Data based on Purchased/Referred Care Delivery Area counties. <sup>‡</sup>Persons of Hispanic origin may be of any race.

Source: North American Association of Central Cancer Registries, 2020.

## Trends in Cancer Incidence Rates\* by Sex and Race, US, 1975-2017



\*Age-adjusted to the 2000 US standard population. Incidence rates are adjusted for delays in reporting.  
Source: Surveillance, Epidemiology, and End Results (SEER) Program, National Cancer Institute, 2020.

## The Lifetime Probability of Developing Cancer for Males, 2015-2017

Site	Risk
All sites*	1 in 2
Prostate	1 in 8
Lung & bronchus	1 in 15
Colon & rectum	1 in 23
Urinary bladder†	1 in 26
Melanoma of the skin‡	1 in 27
Non-Hodgkin lymphoma	1 in 42
Kidney & renal pelvis	1 in 46
Leukemia	1 in 55
Oral cavity & pharynx	1 in 60
Pancreas	1 in 60

\*All sites exclude basal cell and squamous cell skin cancers and in situ cancers except urinary bladder. †Includes invasive and in situ cancer cases.

‡Statistic for non-Hispanic whites.

Source: DevCan: Probability of Developing or Dying of Cancer Software, Version 6.7.8 Statistical Research and Applications Branch, National Cancer Institute, 2020.



## The Lifetime Probability of Developing Cancer for Females, 2015-2017

Site	Risk
All sites*	1 in 3
Breast	1 in 8
Lung & bronchus	1 in 17
Colon & rectum	1 in 25
Uterine corpus	1 in 32
Melanoma of the skin†	1 in 40
Non-Hodgkin lymphoma	1 in 52
Thyroid	1 in 53
Pancreas	1 in 62
Leukemia	1 in 78
Ovary	1 in 82

\*All sites exclude basal cell and squamous cell skin cancers and in situ cancers except urinary bladder. †Statistic for non-Hispanic whites.  
Source: DevCan: Probability of Developing or Dying of Cancer Software, Version 6.7.8 Statistical Research and Applications Branch, National Cancer Institute, 2020.

## Trends in Five-year Relative Survival Rates (%), 1975-2016

Site	1975-1977	1987-1989	2010-2016
All sites	49	55	67
Breast (female)	75	84	90
Colorectum	50	60	65
Leukemia	34	43	64
Lung & bronchus	12	13	21
Melanoma of the skin	82	88	93
Non-Hodgkin lymphoma	47	51	73
Ovary	36	38	49
Pancreas	3	4	10
Prostate	68	83	98
Urinary bladder	72	79	77

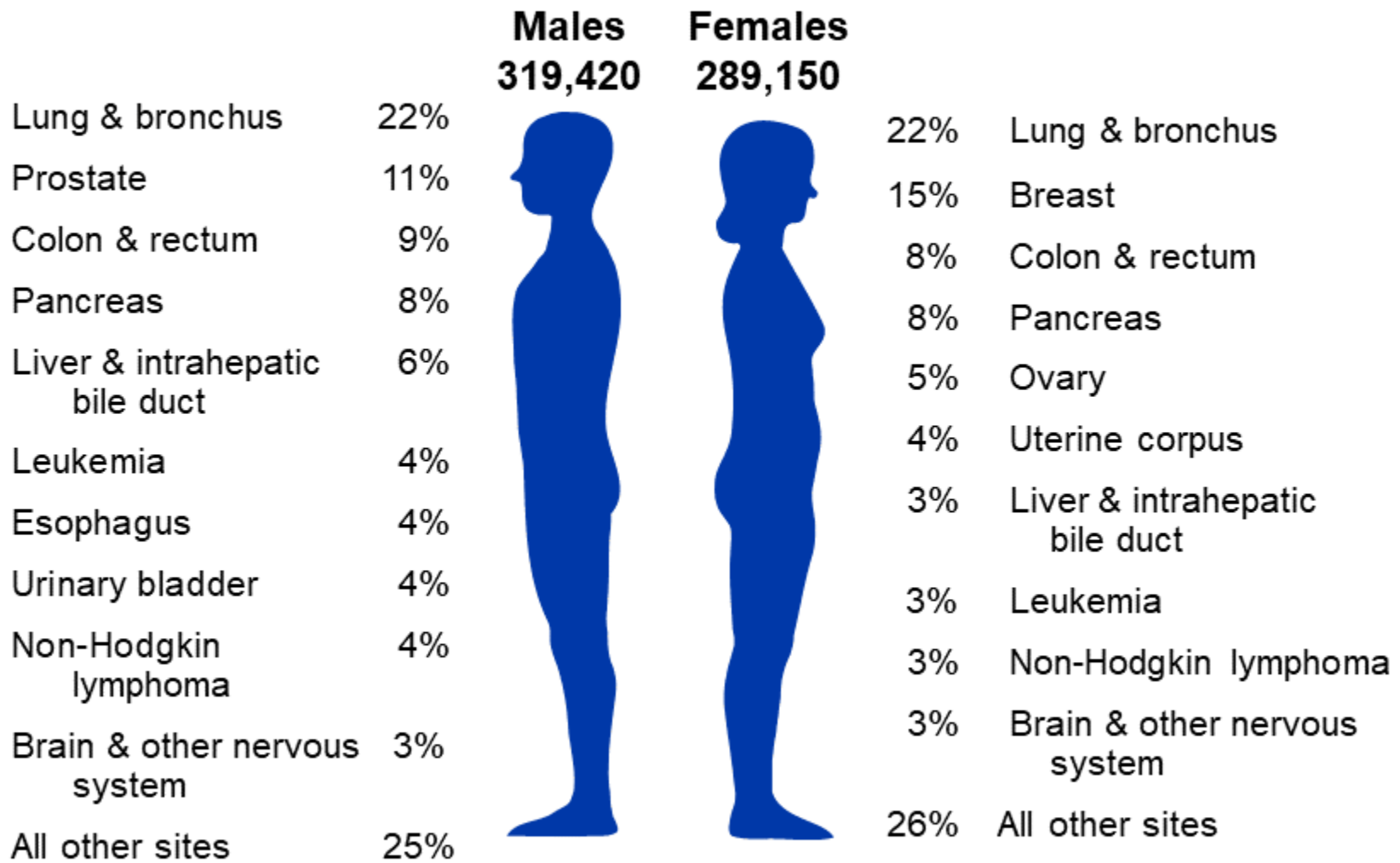
5-year relative survival rates based on patients diagnosed in the 9 oldest SEER registries from 1975-1977 and 1987-1989 and the SEER 18 areas for 2010-2016, all followed through 2017.

Source: Surveillance, Epidemiology, and End Results (SEER) Program, National Cancer Institute, 2020.

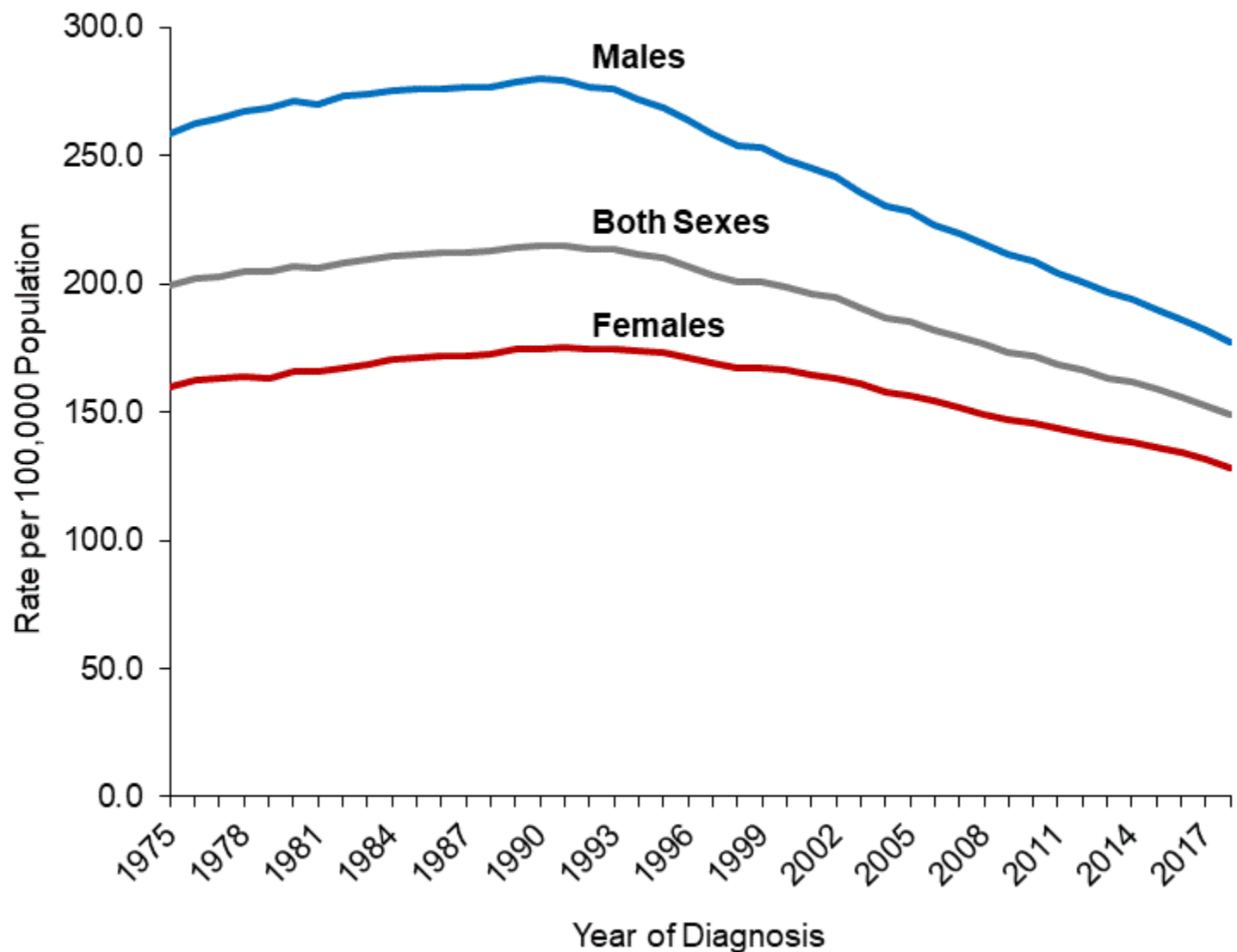
## Five-year Relative Survival Rates (%) by Race, 2010-2016

Site	White	Black	Absolute Difference
All Sites	68	62	6
Breast (female)	91	82	9
Colorectum	65	59	6
Esophagus	21	14	7
Non-Hodgkin lymphoma	73	68	5
Oral cavity & pharynx	68	50	18
Ovary	48	41	7
Prostate	98	96	2
Urinary bladder	77	64	13
Uterine cervix	68	56	12
Uterine corpus	84	63	21

# Estimated Cancer Deaths in the US in 2021



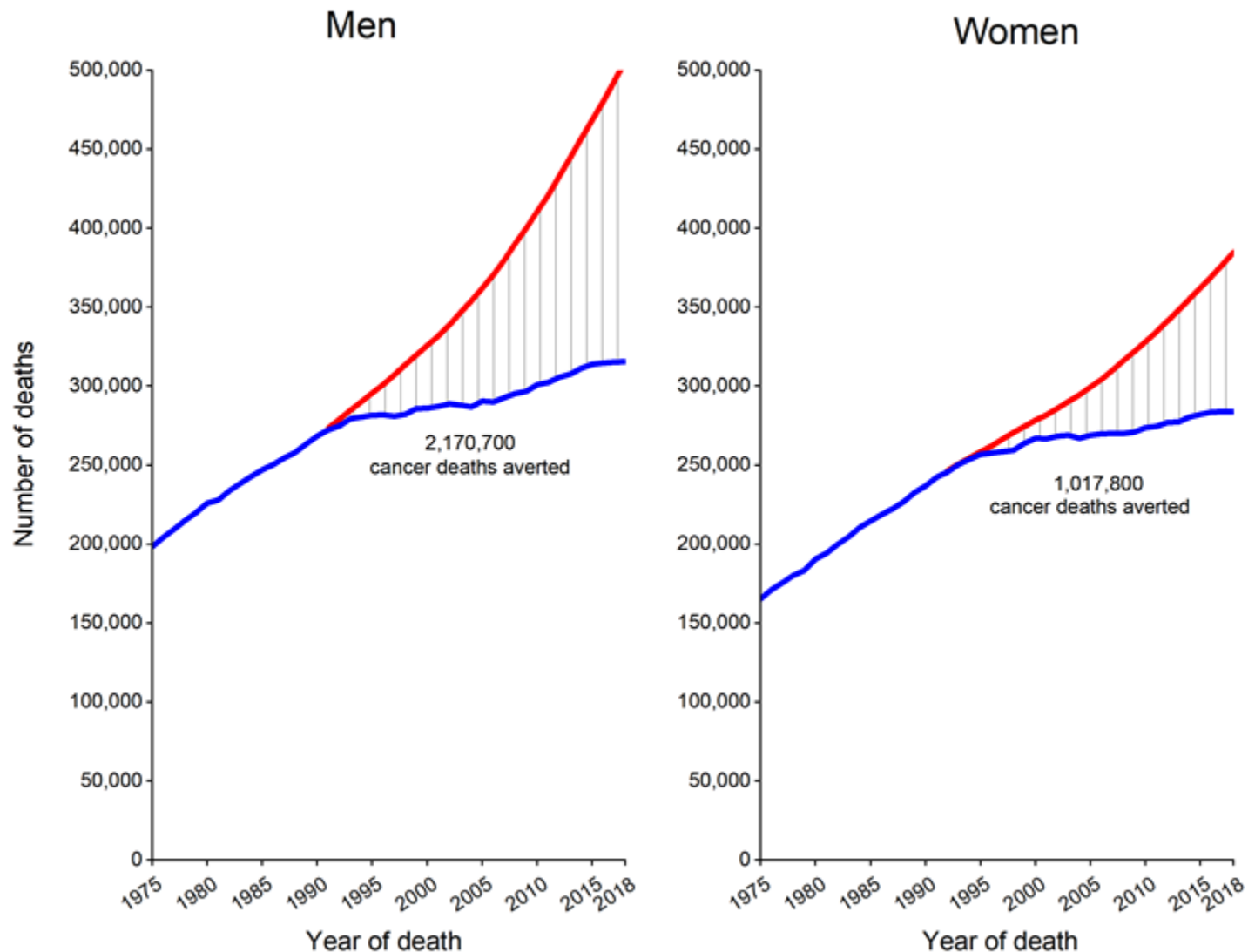
# Trends in Cancer Death Rates\* by Sex, US, 1975-2018



\*Age-adjusted to the 2000 US standard population.

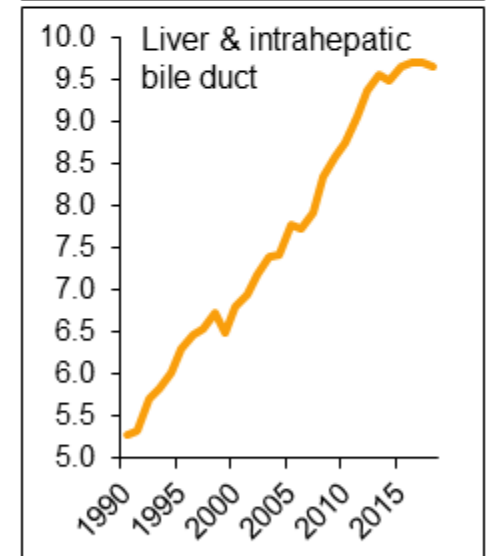
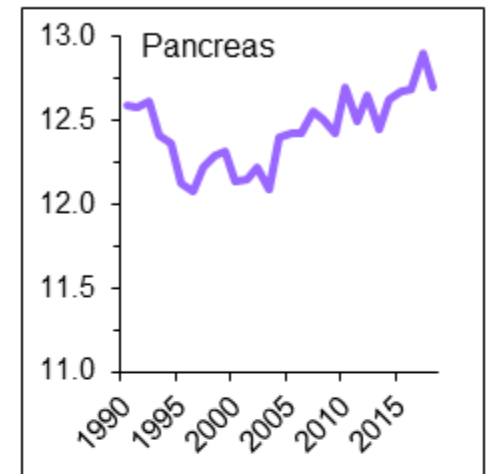
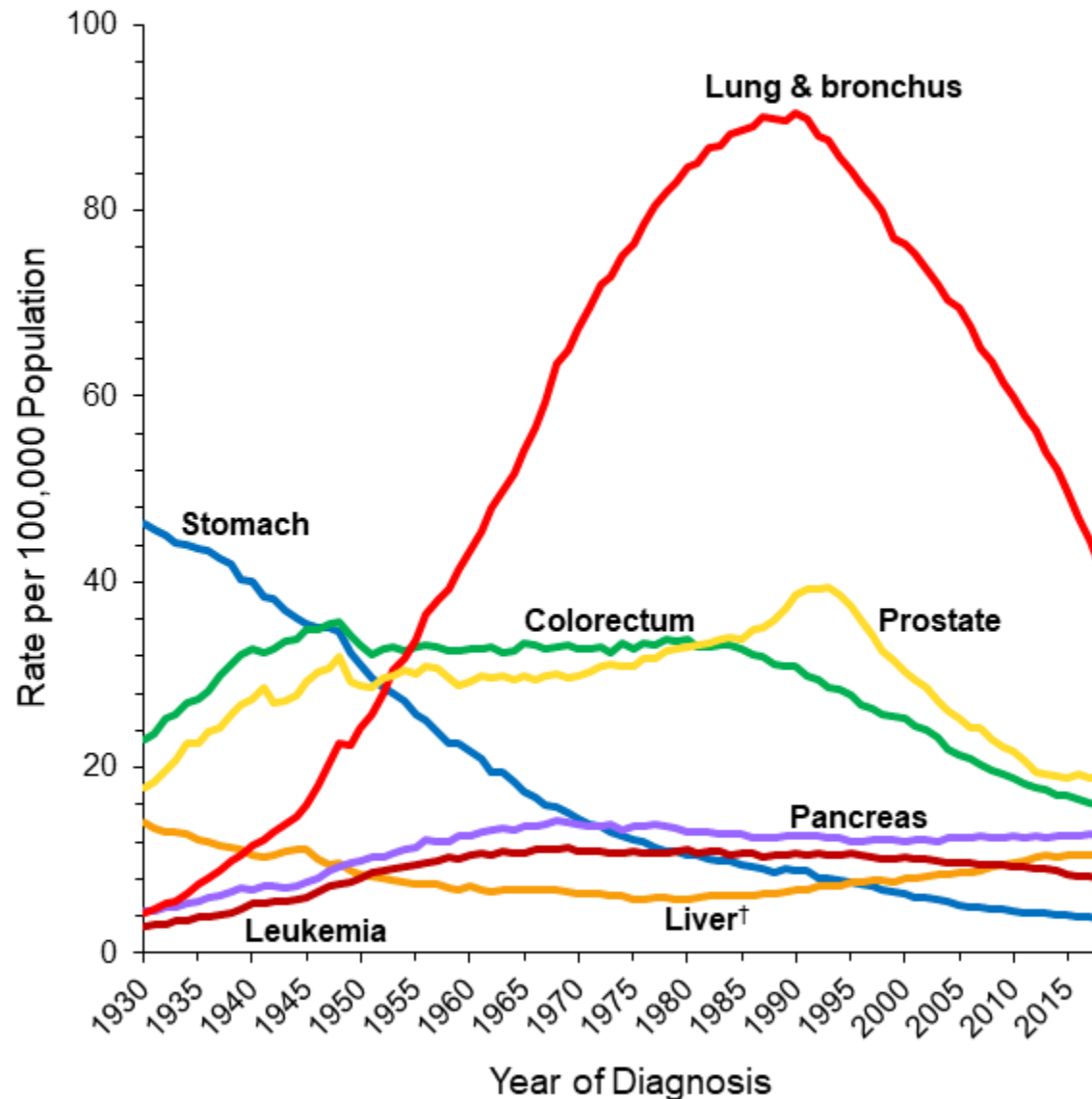
Source: National Center for Health Statistics, Centers for Disease Control and Prevention, 2020.

# Total Number of Cancer Deaths Averted from 1991 to 2018



The blue line represents the actual number of cancer deaths recorded in each year, and the red line represents the number of cancer deaths that would have been expected if cancer death rates had remained at their peak.

# Trends in Cancer Death Rates\* Among Males, US, 1930-2018

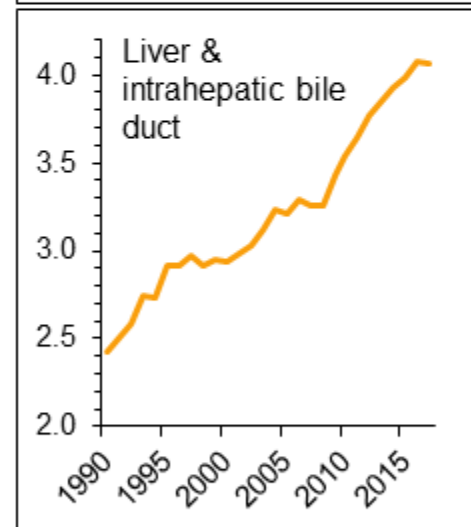
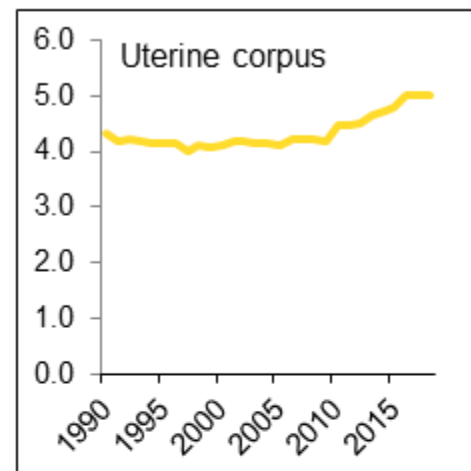
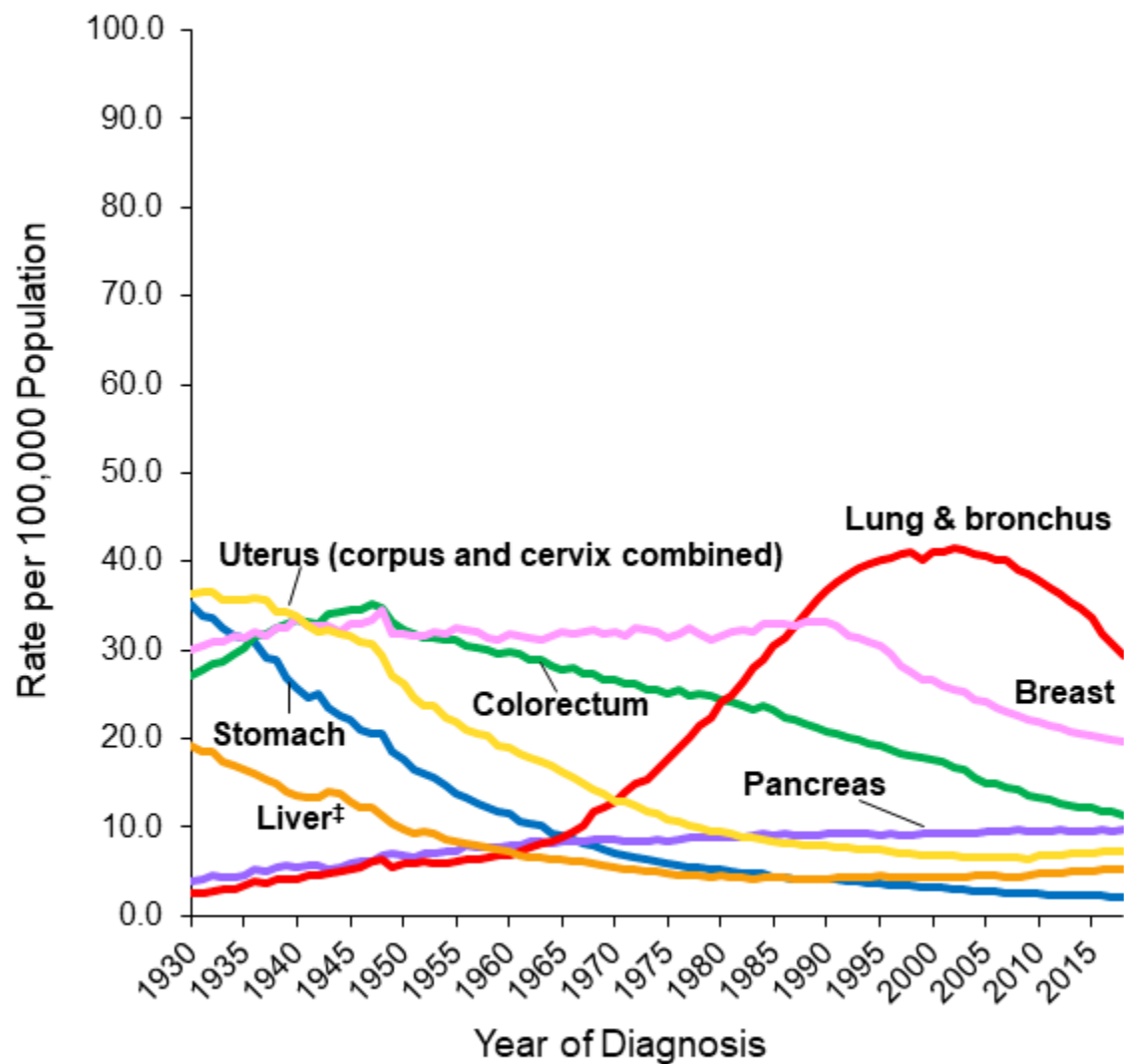


\*Age-adjusted to the 2000 US standard population. †Includes intrahepatic bile duct, gallbladder, and other biliary.

NOTE: Due to International Classification of Diseases coding changes, numerator information for colorectal, liver, and lung cancers has changed over time

Source: National Center for Health Statistics, Centers for Disease Control and Prevention, 2020.

# Trends in Cancer Death Rates\* Among Females, US, 1930-2018



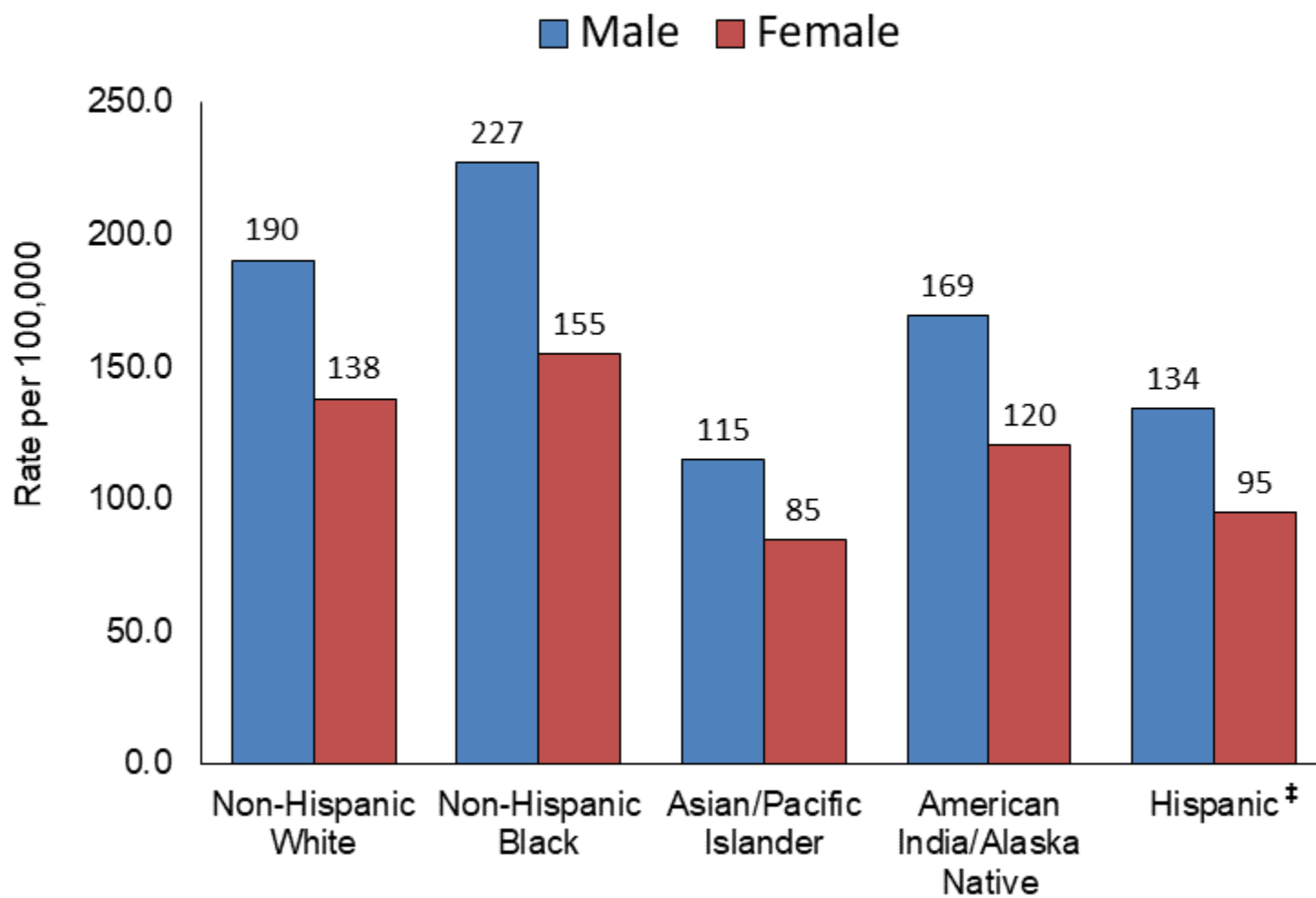
\*Age-adjusted to the 2000 US standard population. †Includes intrahepatic bile duct, gallbladder, and other biliary.

NOTE: Due to International Classification of Diseases coding changes, numerator information for colorectal, liver, lung, and uterine cancers has changed over time.

Source: National Center for Health Statistics, Centers for Disease Control and Prevention, 2020.



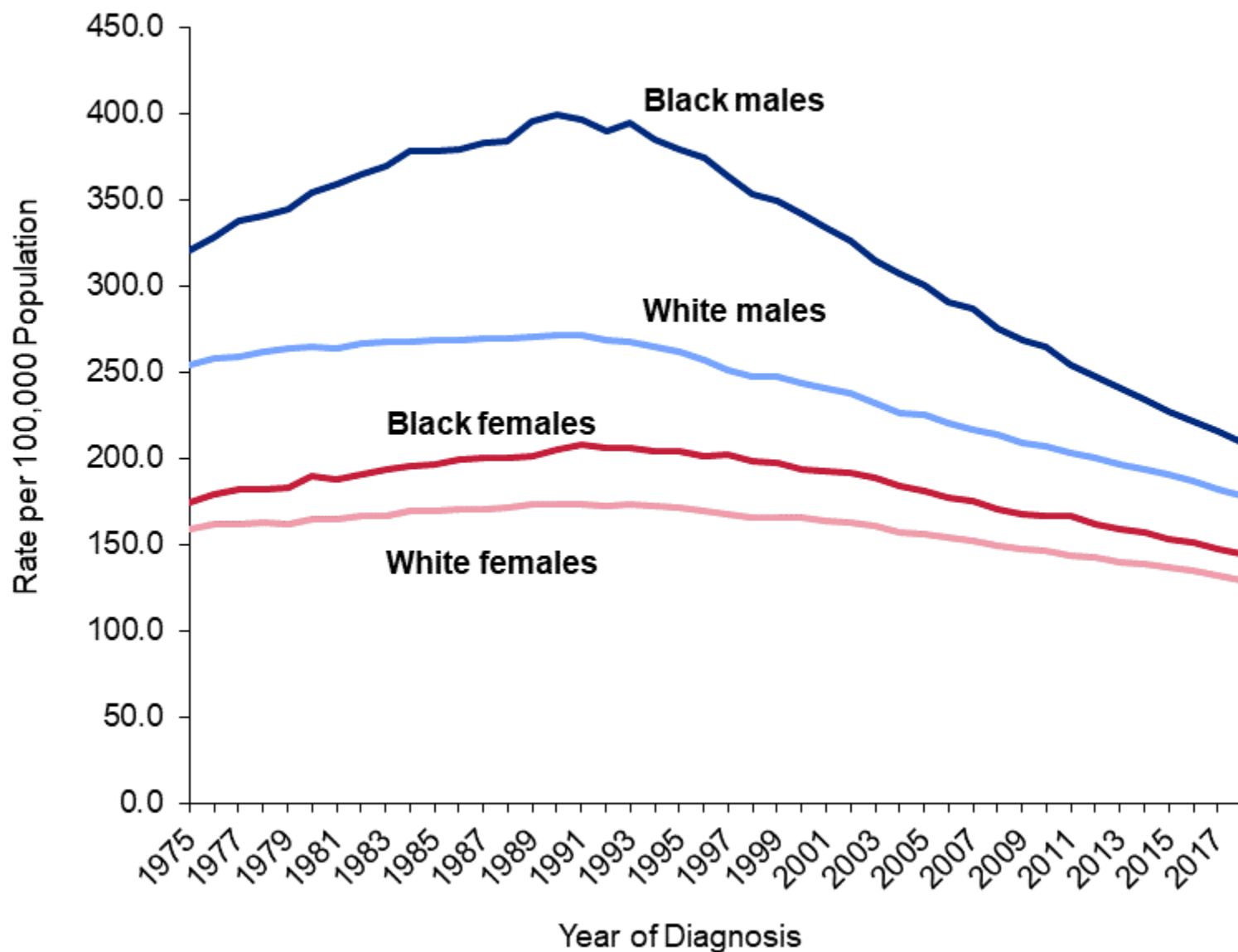
## Cancer Death Rates\* by Race and Ethnicity, US, 2014-2018



\*Per 100,000, age-adjusted to the 2000 US standard population. †Data based on Purchased/Referred Care Delivery Area counties. ‡Persons of Hispanic origin may be of any race.

Sources: National Center for Health Statistics, Centers for Disease Control and Prevention, 2020.

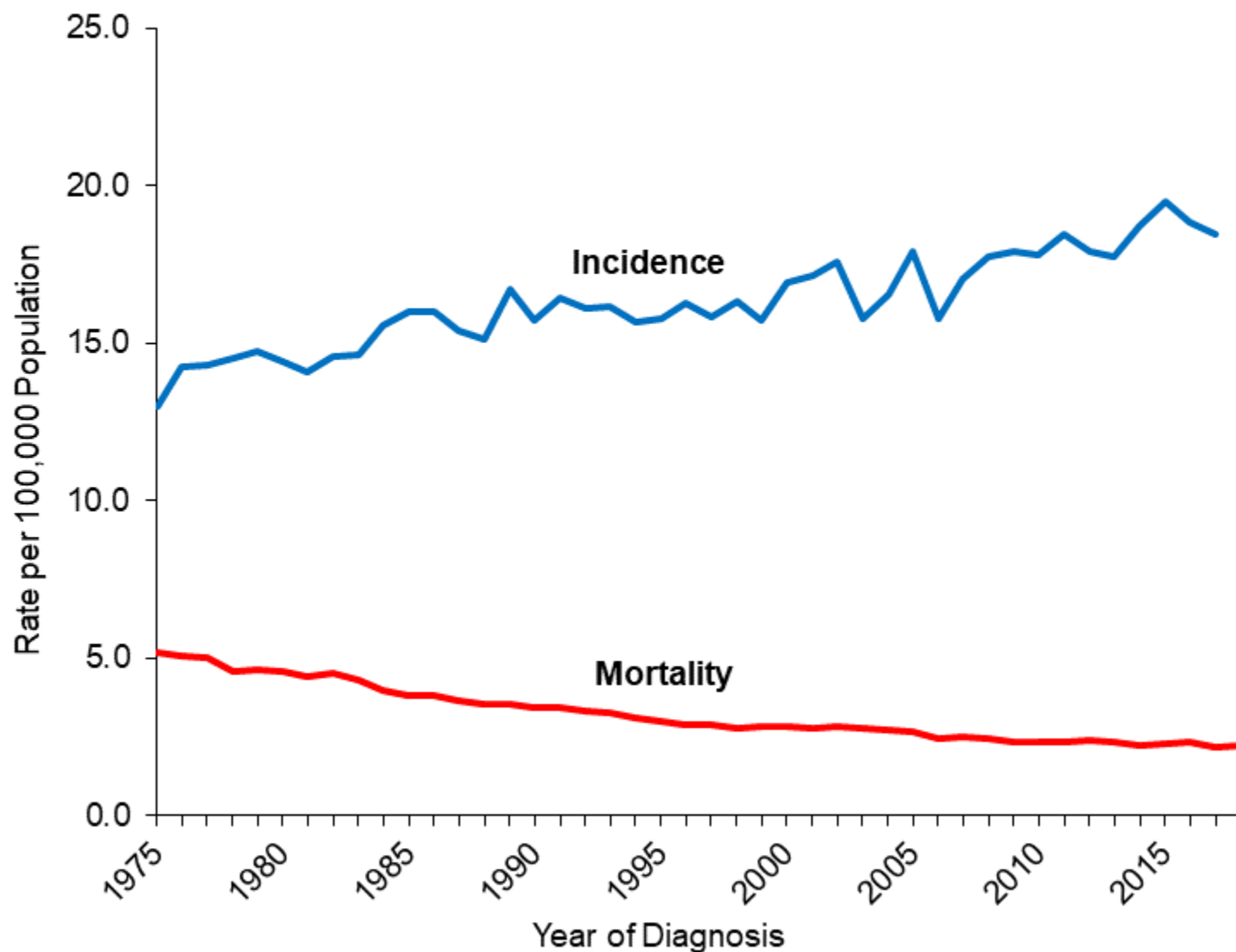
# Trends in Cancer Death Rates\* by Sex and Race, US, 1975-2018



\*Age-adjusted to the 2000 US standard population.

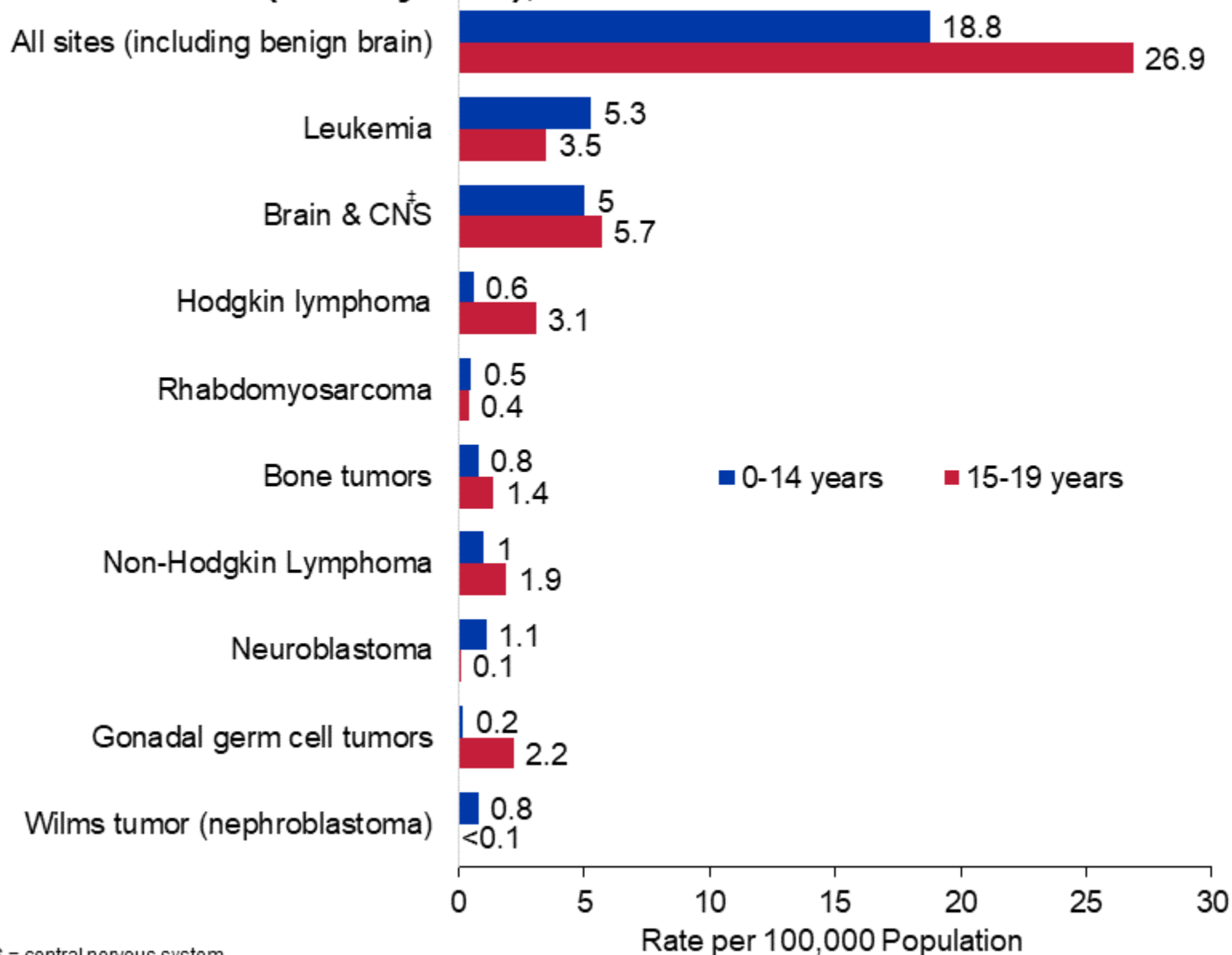
Source: National Center for Health Statistics, Centers for Disease Control and Prevention, 2020.

## Trends in Cancer Incidence\* and Death Rates in Children and Adolescents (0-19 Years), 1975-2018



Age-adjusted to the 2000 standard population. \*Incidence rates are presented through 2016 and are adjusted to account for delays in reporting. Sources: Incidence – Surveillance, Epidemiology, and End Results (SEER) Program, National Cancer Institute, 2020. Mortality – National Center for Health Statistics, Centers for Disease Control and Prevention, 2020.

# Cancer Incidence Rates\* Among Children (0-14 years) and Adolescents (15-19 years), 2013-2017



CNS = central nervous system.

\*Rates are age-adjusted to the 2000 US standard population. <sup>†</sup>Includes benign brain and CNS tumors. <sup>‡</sup>Includes other peripheral nervous system tumors.

Source: North American Association of Central Cancer Registries, 2020.

# Top Three Causes of Cancer Death in Children and Adolescents, 2014-2018

## Children (0-14 years)

Site	Rate
All sites	2.1
Brain/ONS	0.7
Leukemia	0.5
Soft tissue (including heart)	0.2

## Adolescents (15-19 years)

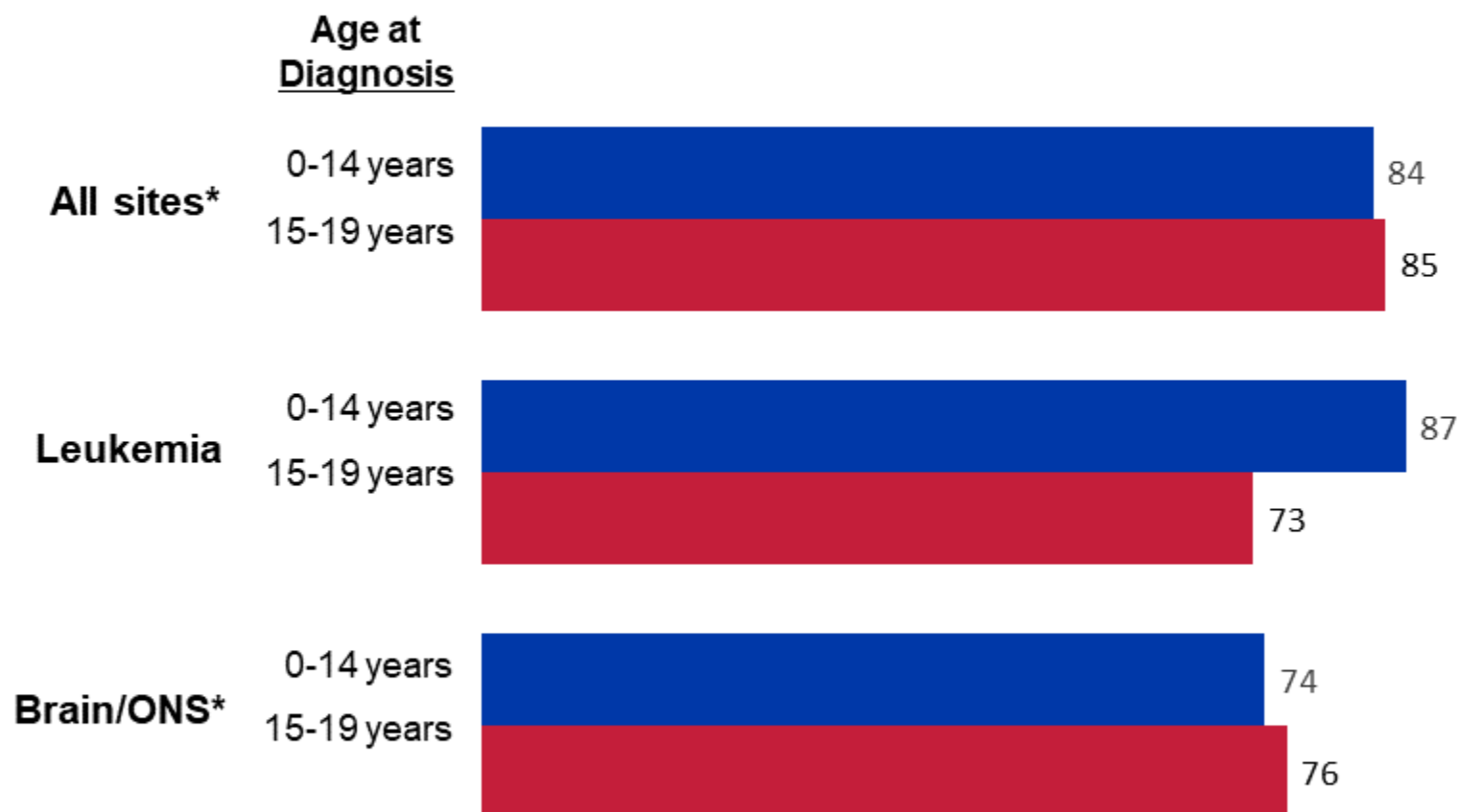
All sites	
Leukemia	0.7
Brain/ONS	0.5
Bone & joints	0.5

ONS = other nervous system.

Per 100,000, age-adjusted to the 2000 US standard population. Brain/ONS excludes benign brain tumors.

Source: National Center for Health Statistics, Centers for Disease Control and Prevention, 2020.

## 5-year Relative Survival Rates (%) in Children and Adolescents by Age, 2010-2016

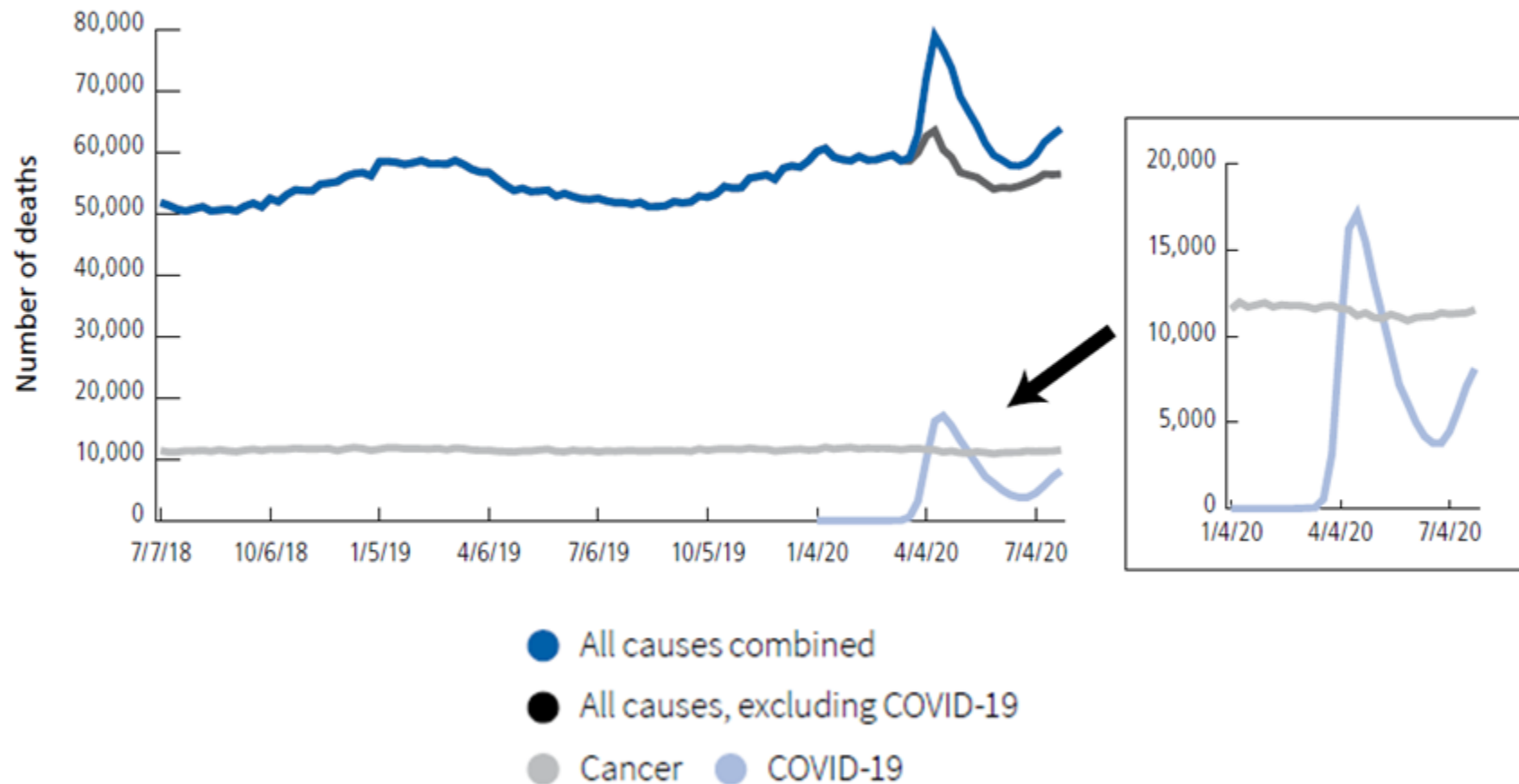


ONS=other nervous system. Based on follow up of patients through 2016.

\*Excludes benign brain tumors.

Source: Surveillance, Epidemiology, and End Results (SEER) Program, National Cancer Institute, 2020.

# Weekly Number of Deaths in the US, January 2018 – July 2020\*



\*Counts during 2019 and 2020 are provisional (i.e., 75% complete within 8 weeks of death) and exclude Connecticut and North Carolina. COVID-19 deaths include deaths for which COVID-19 was identified on the death certificate as the underlying cause of death or a contributing cause (among multiple causes).

Source: NCHS, 2020. Available from: <https://data.cdc.gov/NCHS/Weekly-Counts-of-Deaths-by-State-and-Select-Causes/muzy-jte6>. Accessed November 2, 2020.

# Potential Impact of the COVID-19 Pandemic on Future Cancer Outcomes

