

HIV Mortality 2023

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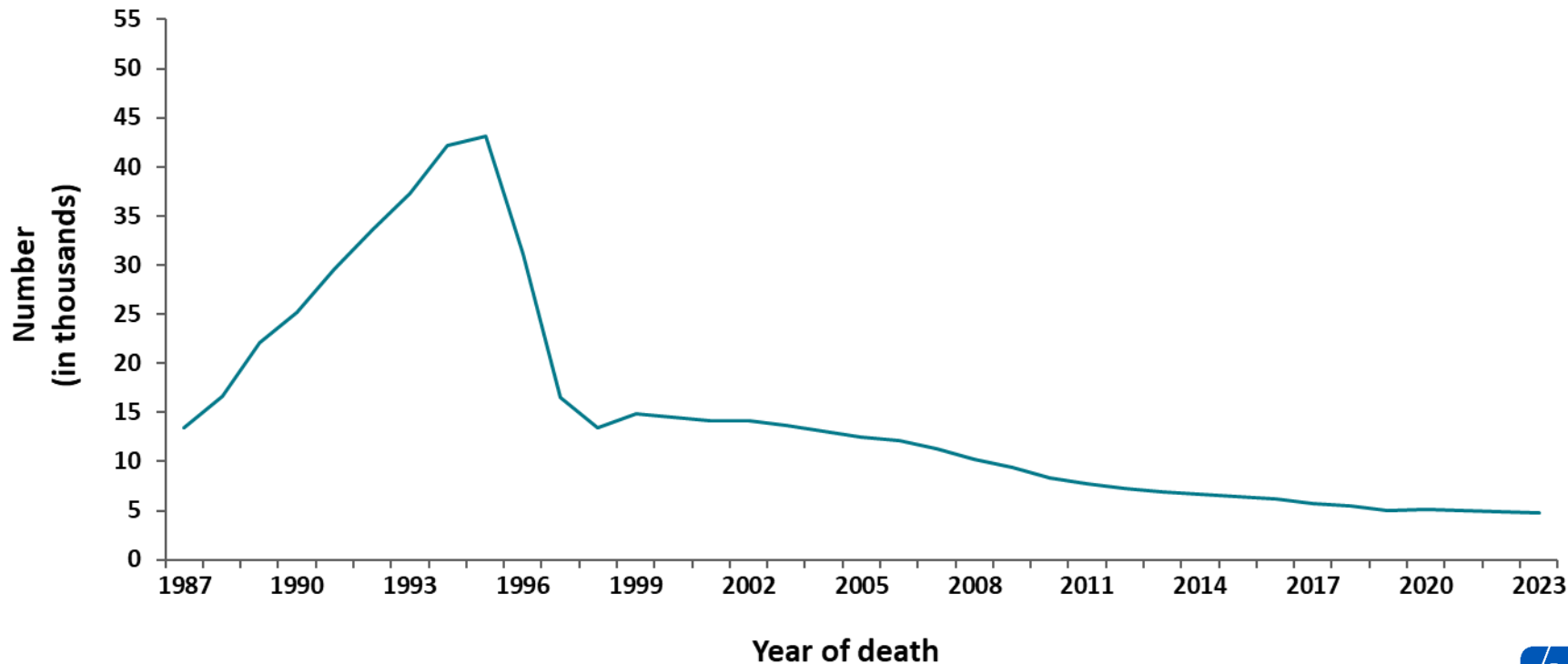
Centers for Disease Control and Prevention

Data Sources and Technical Notes

- Death data for the general population were based on data compiled by the National Center for Health Statistics (NCHS) from the CDC WONDER Online Database <https://wonder.cdc.gov/>.
- Data on deaths among persons with diagnosed HIV were based on data from the National HIV Surveillance System (NHSS) and more information is available at HIV Surveillance Report Technical Notes at <https://www.cdc.gov/hiv-data/nhss/hiv-diagnoses-deaths-prevalence.html>.
- For more information on data sources, data collection and reporting practices, and case definitions, see NHSS Technical Notes, available at <https://www.cdc.gov/hiv-data/nhss/index.html>.
- Additional data stratifications and years for deaths among persons with diagnosed HIV are available via NCHHSTP AtlasPlus, accessible at <https://www.cdc.gov/nchhstp/about/atlasplus.html>.



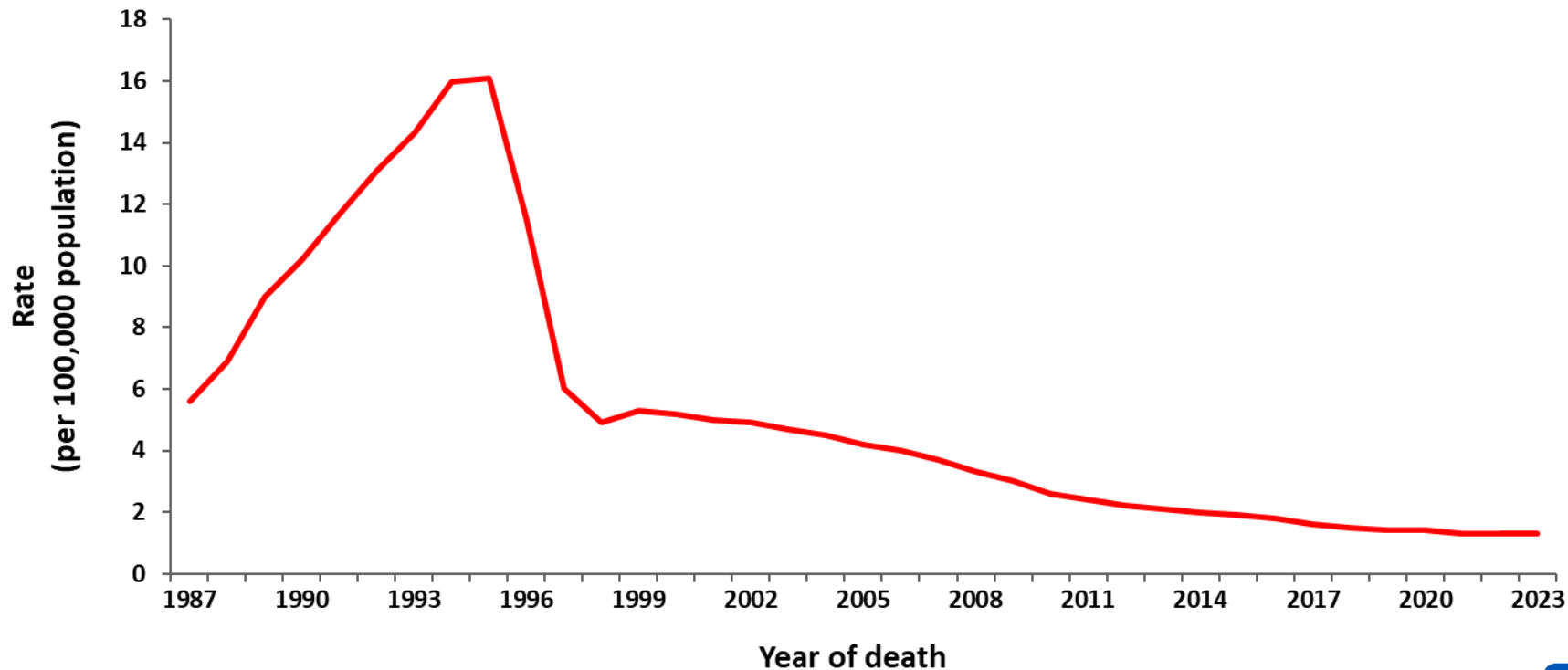
Deaths in the general population with HIV disease as the underlying cause of death, 1987–2023—United States



Note. Data from CDC WONDER Online Database based on death certificate data compiled by the National Center for Health Statistics.



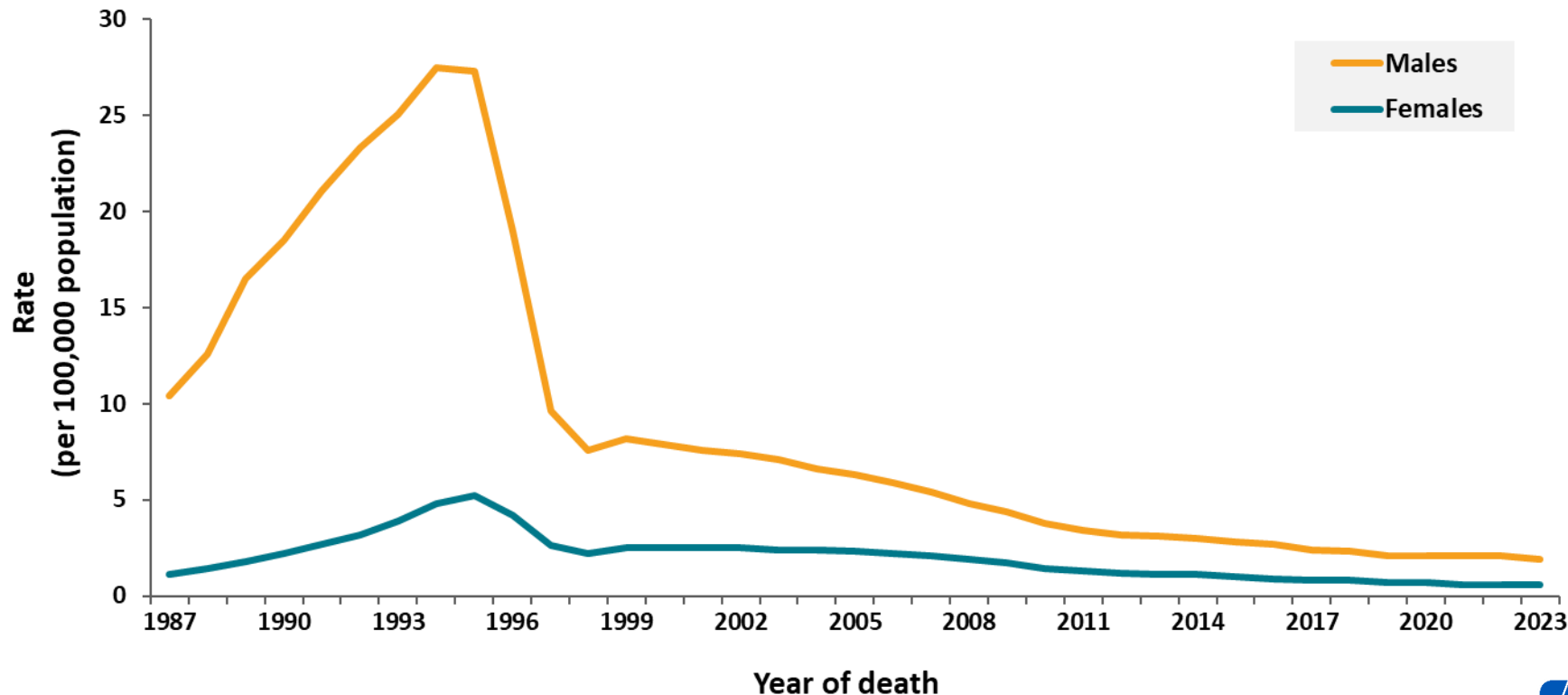
Age-adjusted rates of death in the general population with HIV disease as the underlying cause, 1987–2023—United States



Note. Data from CDC WONDER Online Database based on death certificate data compiled by the National Center for Health Statistics.



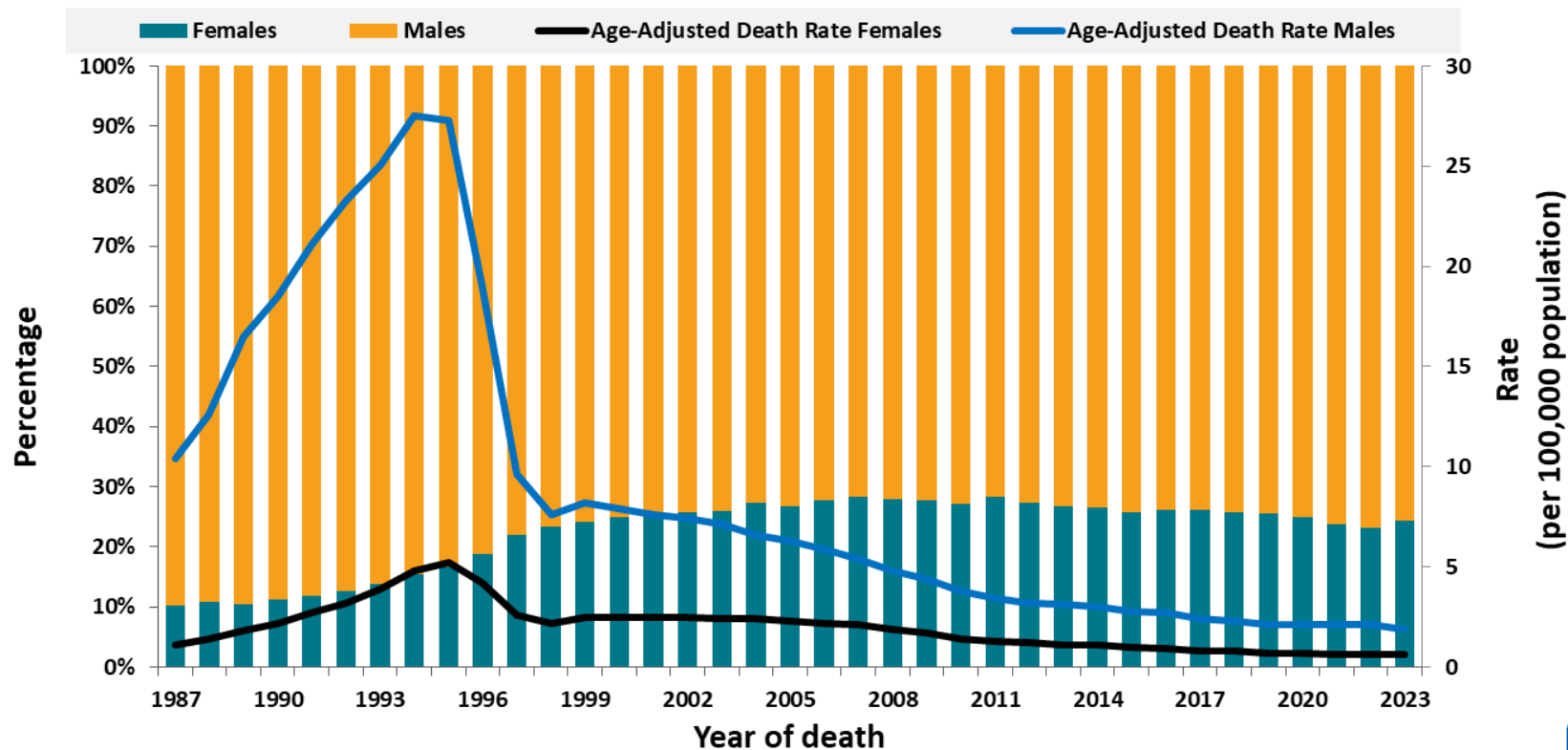
Age-adjusted rates of death in the general population with HIV disease as the underlying cause, by sex, 1987–2023—United States



Note. Data from CDC WONDER Online Database based on death certificate data compiled by the National Center for Health Statistics.

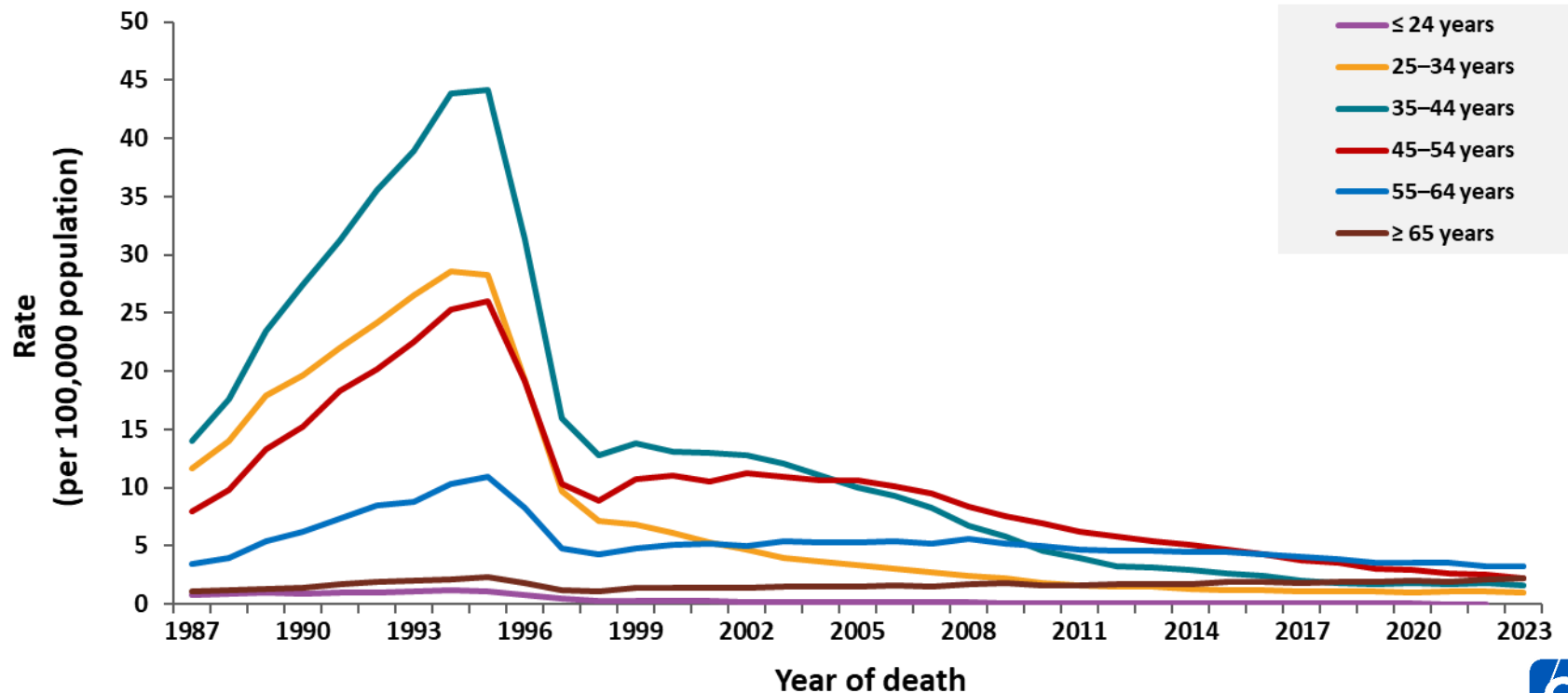


Age-adjusted rates and percentage distribution of deaths in the general population with HIV disease as the underlying cause by sex, 1987–2023—United States



Note. Data from CDC WONDER Online Database based on death certificate data compiled by the National Center for Health Statistics.

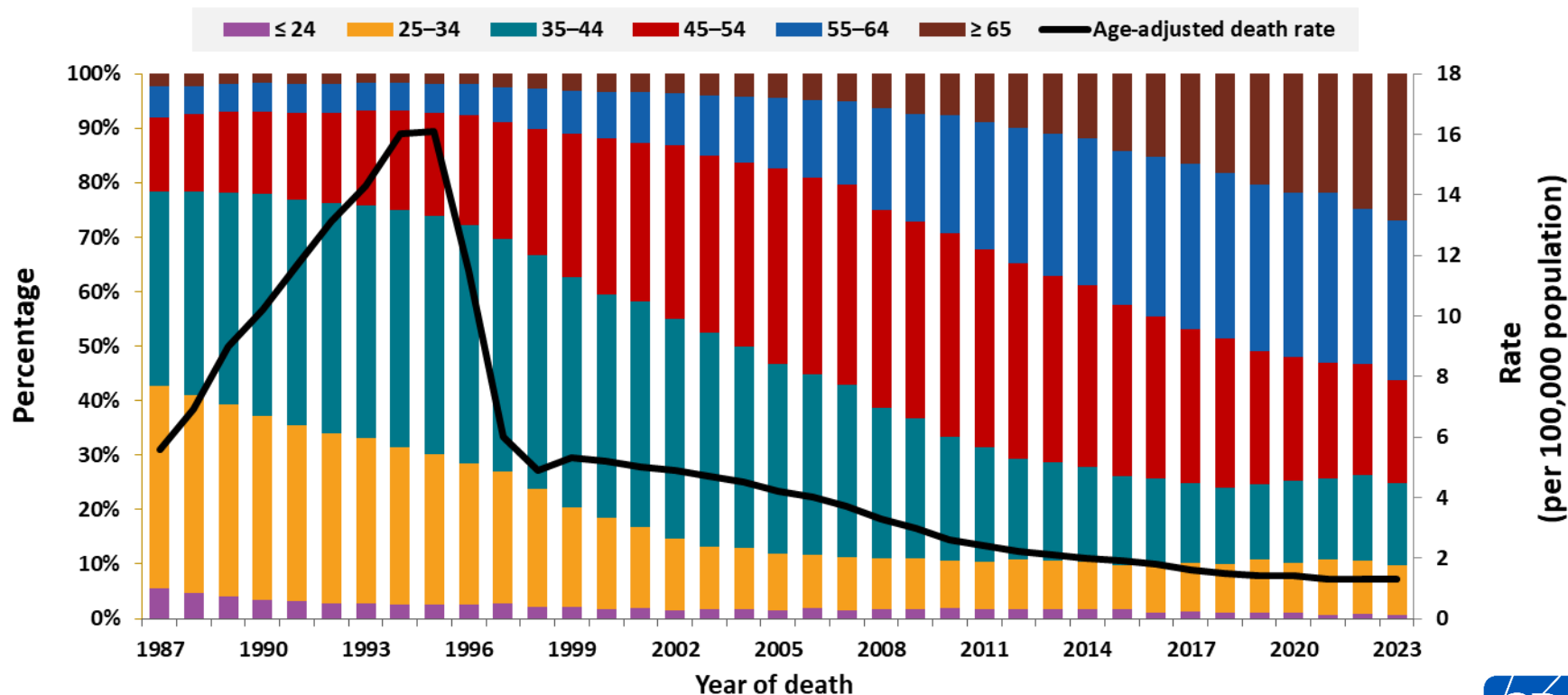
Deaths in the general population with HIV disease as the underlying cause, by age group, 1987–2023—United States



Note. Data from CDC WONDER Online Database based on death certificate data compiled by the National Center for Health Statistics.



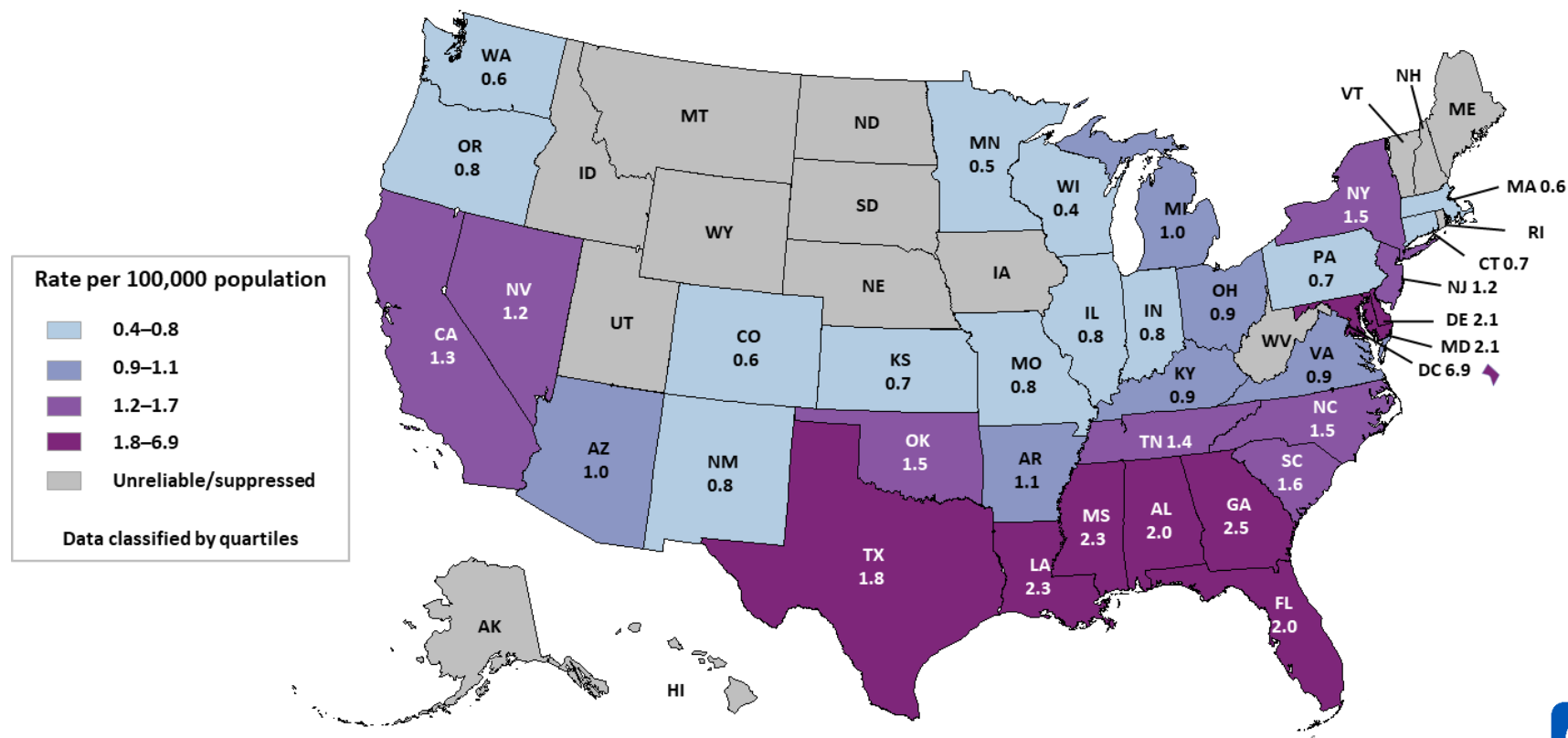
Age-adjusted rates and percentage distribution of deaths in the general population with HIV disease as the underlying cause by age group, 1987–2023—United States



Note. Data from CDC WONDER Online Database based on death certificate data compiled by the National Center for Health Statistics.

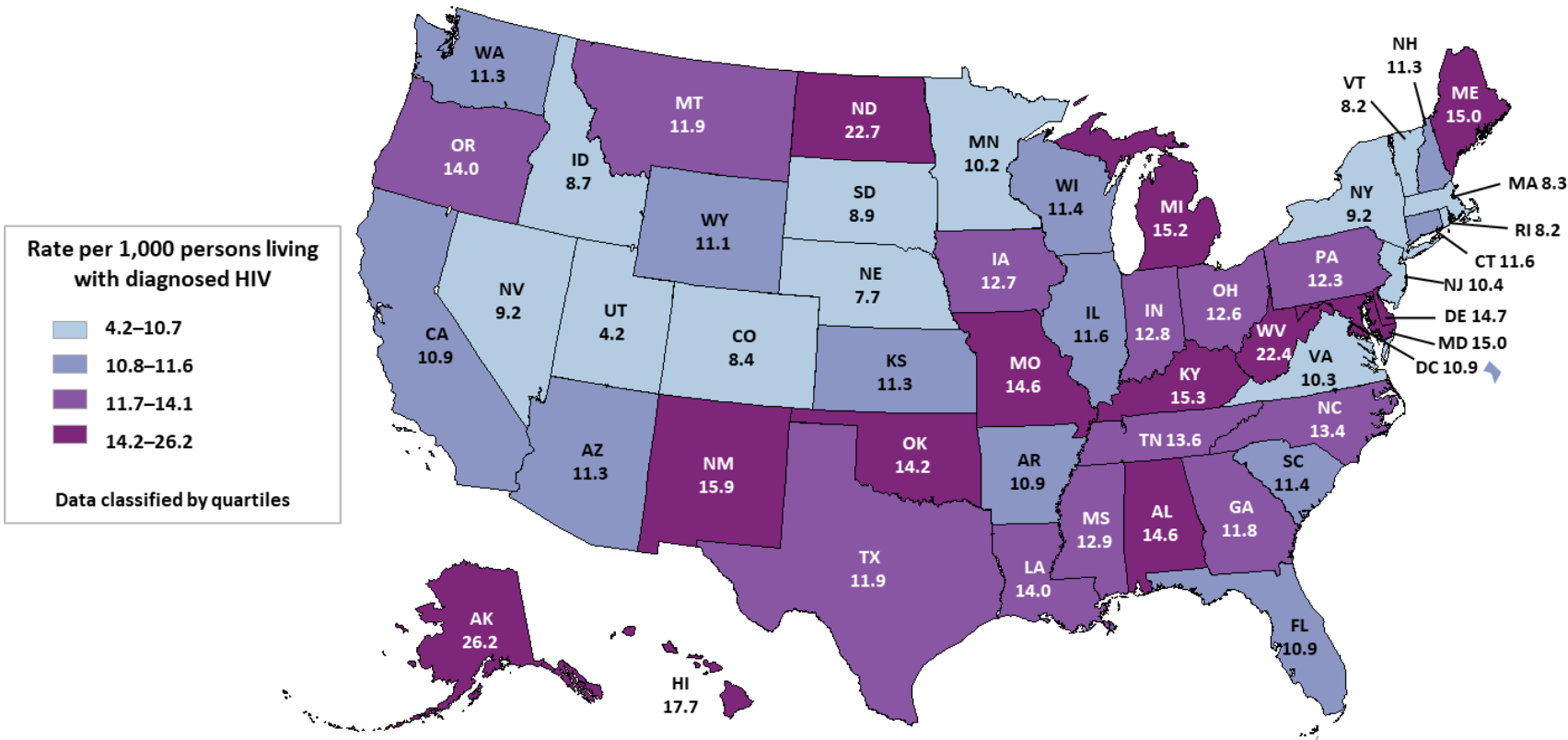


Age-adjusted rates of death in the general population with HIV disease as the underlying cause, by state, 2023—United States

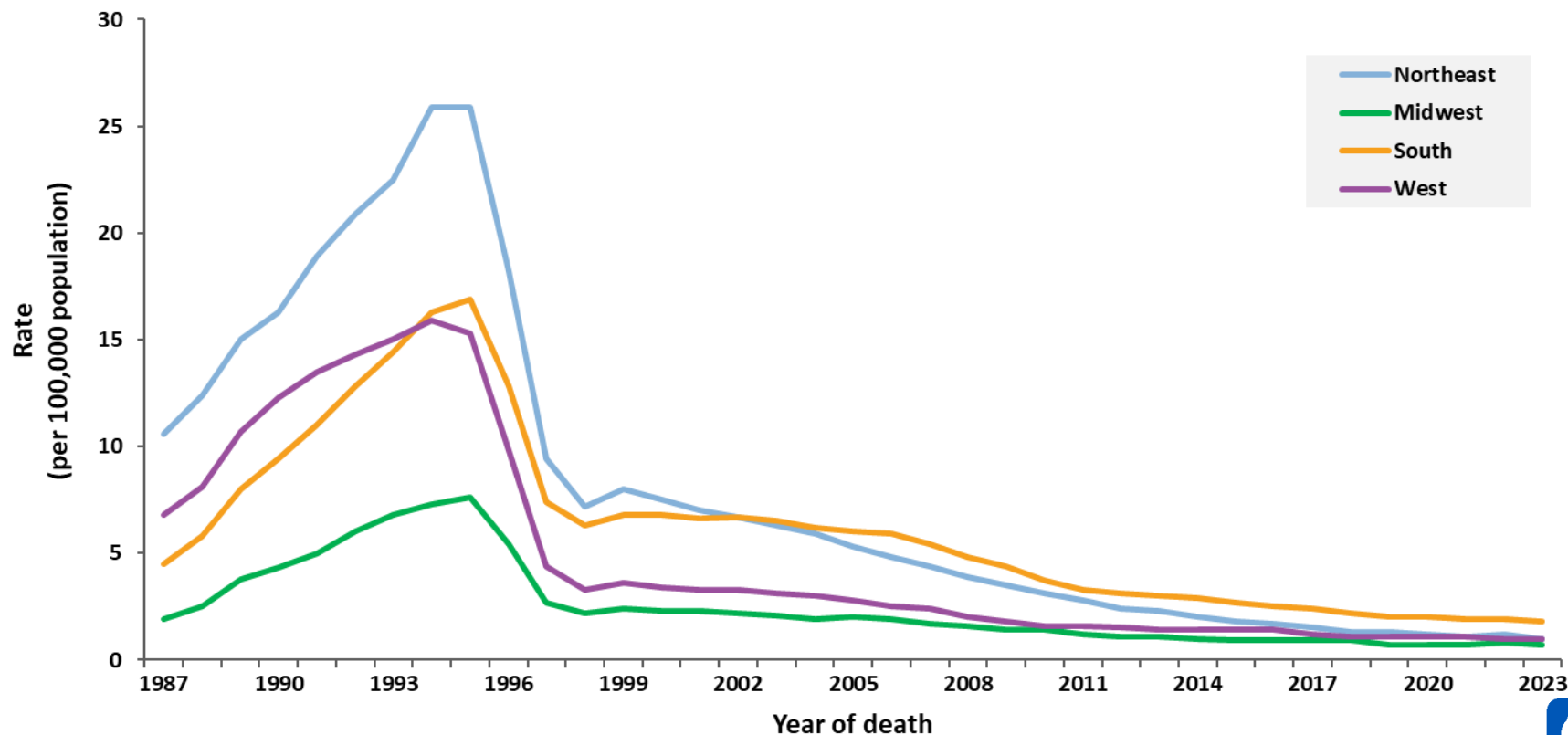


Note. Data are from CDC WONDER Online Database and are based on death certificate data compiled by the National Center for Health Statistics. Death rates are not shown when unreliable (rate is calculated with a numerator of 20 or less) or suppressed (the data meet the criteria for confidentiality constraints).

Age-adjusted* rates† of death (any cause) among persons with diagnosed HIV by state, 2023—United States



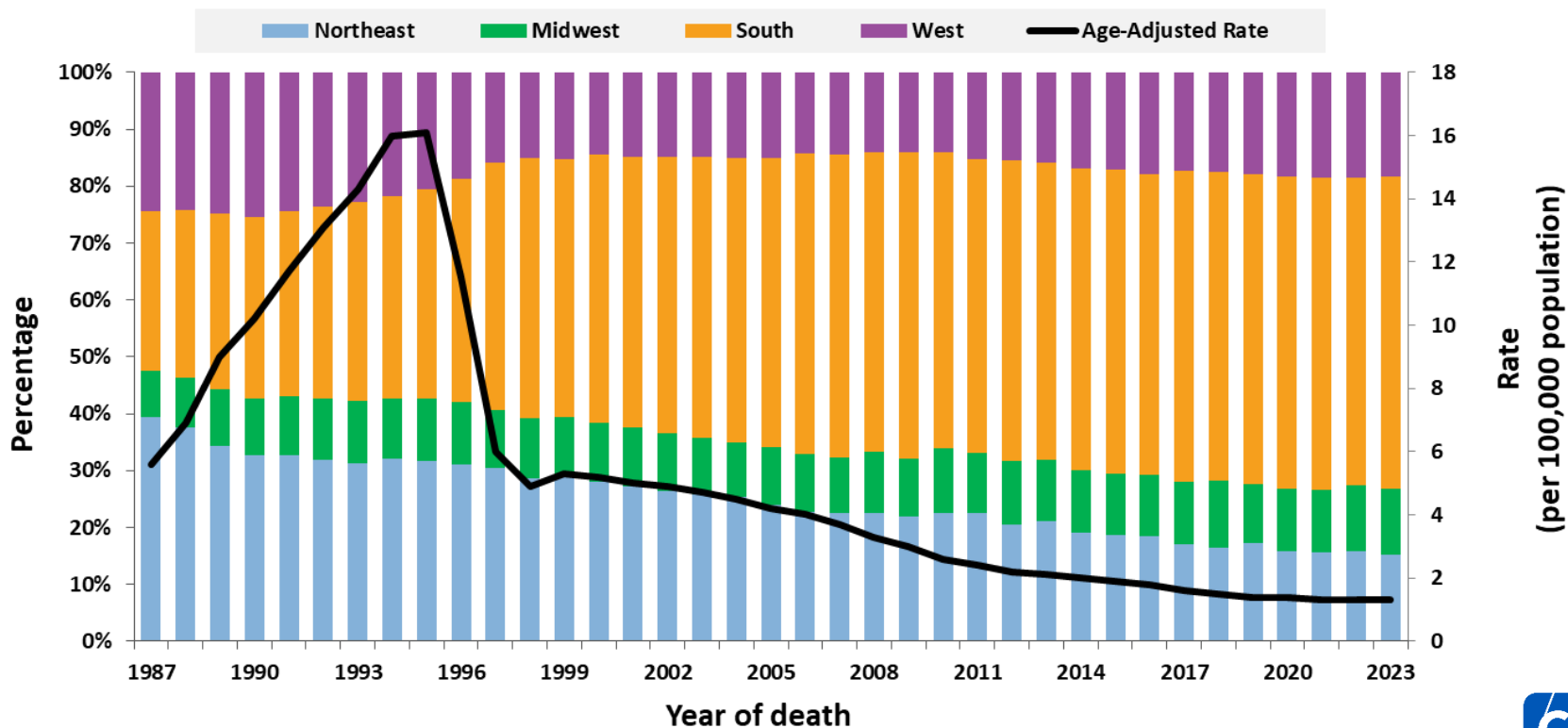
Age-adjusted rates of death in the general population with HIV disease as the underlying cause, by region, 1987–2023—United States



Note. Data from CDC WONDER Online Database based on death certificate data compiled by the National Center for Health Statistics.

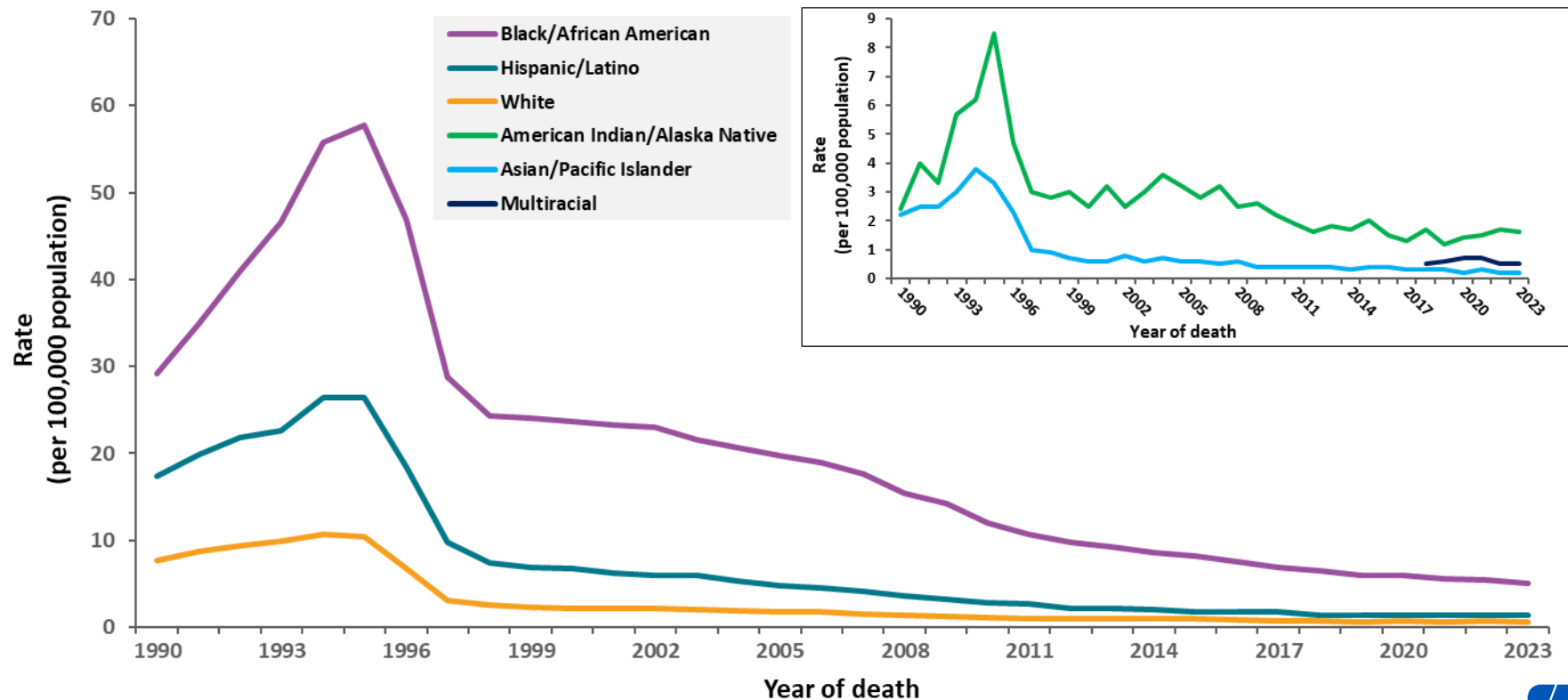


Age-adjusted rates and percentage distribution of deaths in the general population with HIV disease as the underlying cause by region, 1987–2023—United States



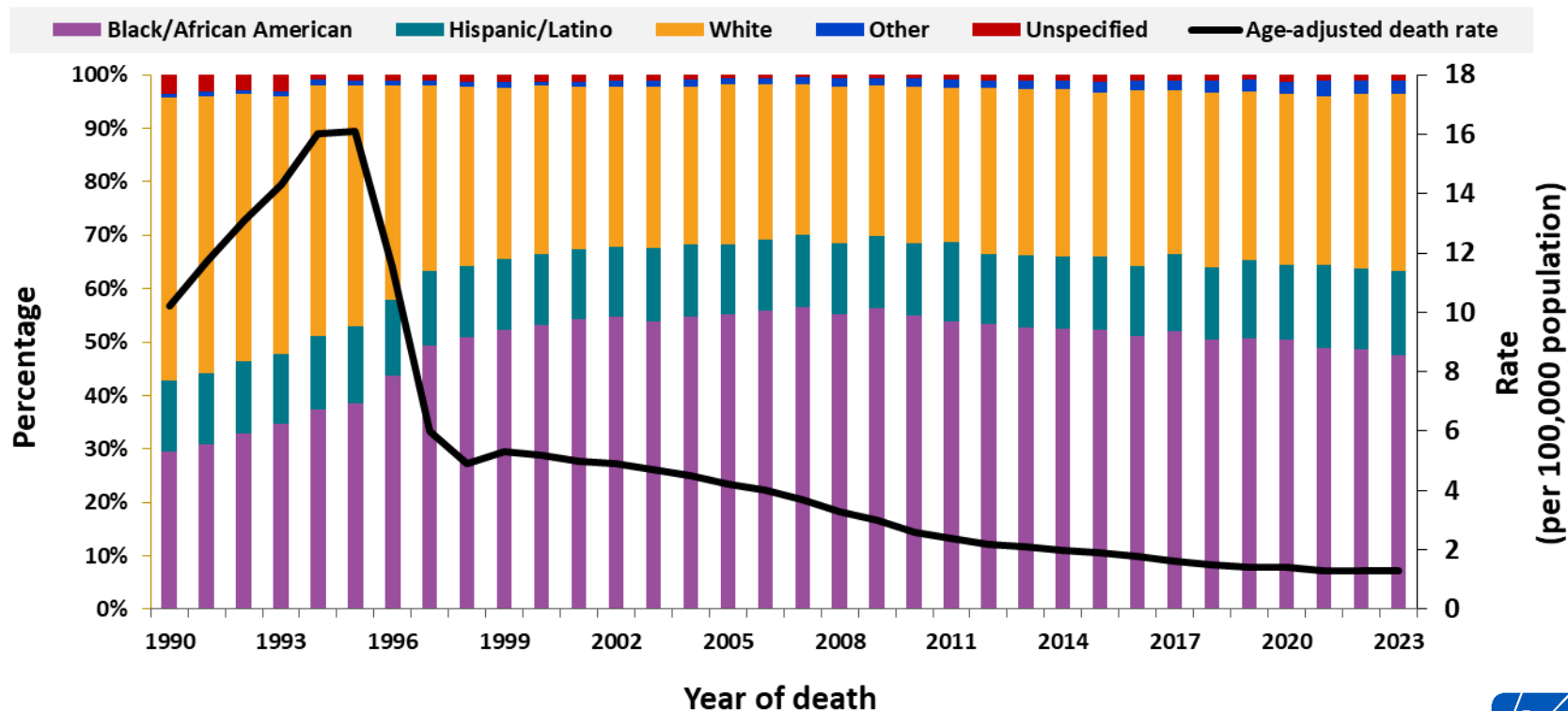
Note. Data from CDC WONDER Online Database based on death certificate data compiled by the National Center for Health Statistics.

Age-adjusted rates of death in the general population with HIV disease as the underlying cause, by race/ethnicity, 1990–2023—United States



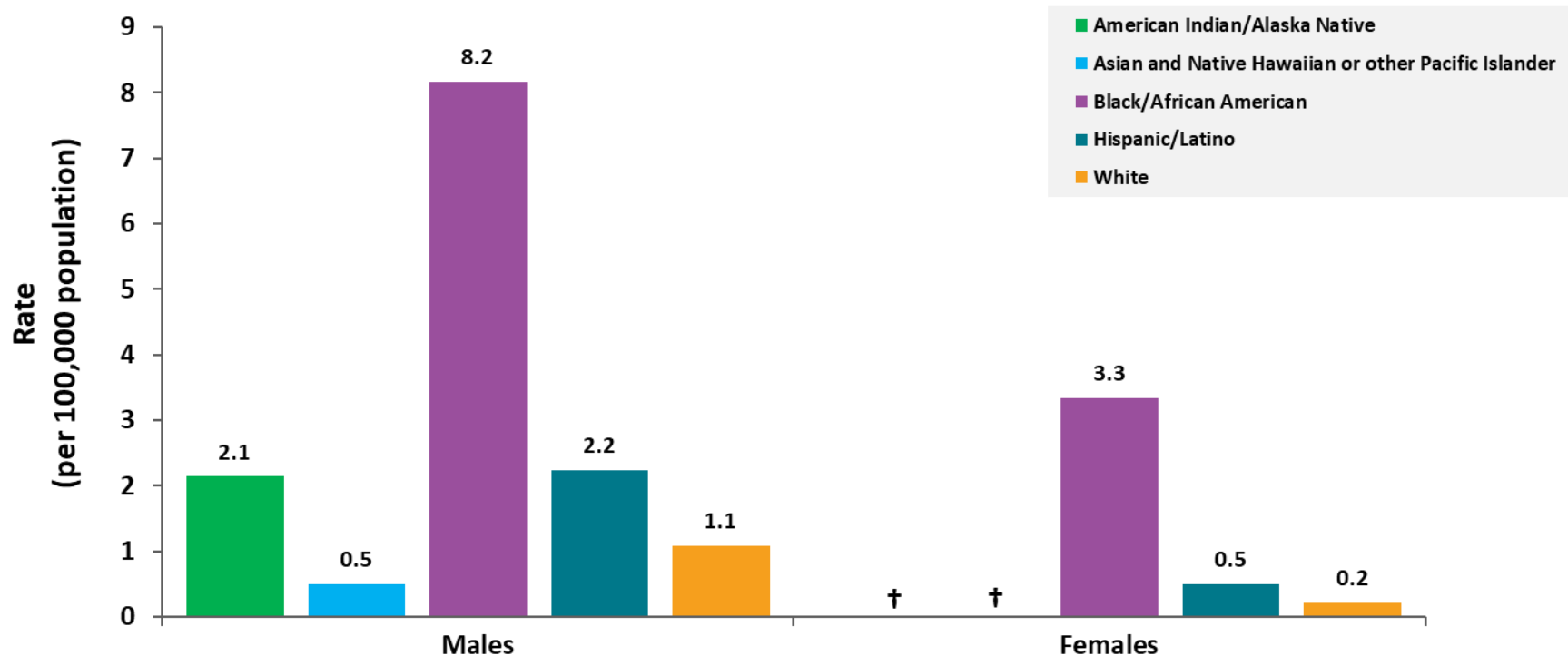
Note. Data are from CDC WONDER Online Database and are based on death certificate data compiled by the National Center for Health Statistics. Hispanic/Latino persons can be of any race.

Age-adjusted rates and percentage distribution of deaths in the general population with HIV disease as the underlying cause by race/ethnicity, 1990–2023—United States



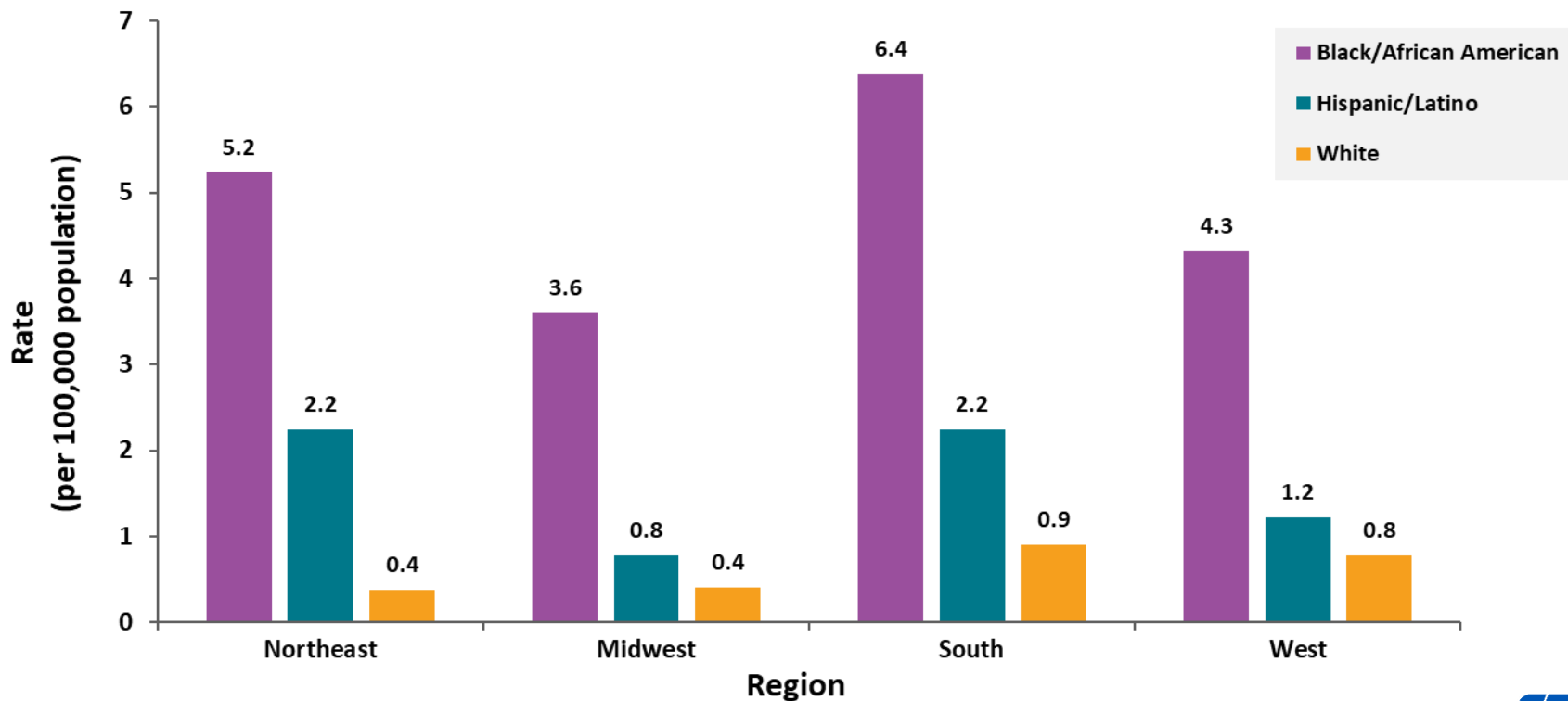
Note. Data are from CDC WONDER Online Database and are based on death certificate data compiled by the National Center for Health Statistics. Hispanic/Latino persons can be of any race.

Average annual age-adjusted rates of death in the general population with HIV disease as the underlying cause, by sex and race/ethnicity, 2019–2023—United States



Note. Data are from CDC WONDER Online Database and are based on death certificate data compiled by the National Center for Health Statistics. Hispanic/Latino persons can be of any race. † Unreliable rate due to a numerator of less than 20 deaths.

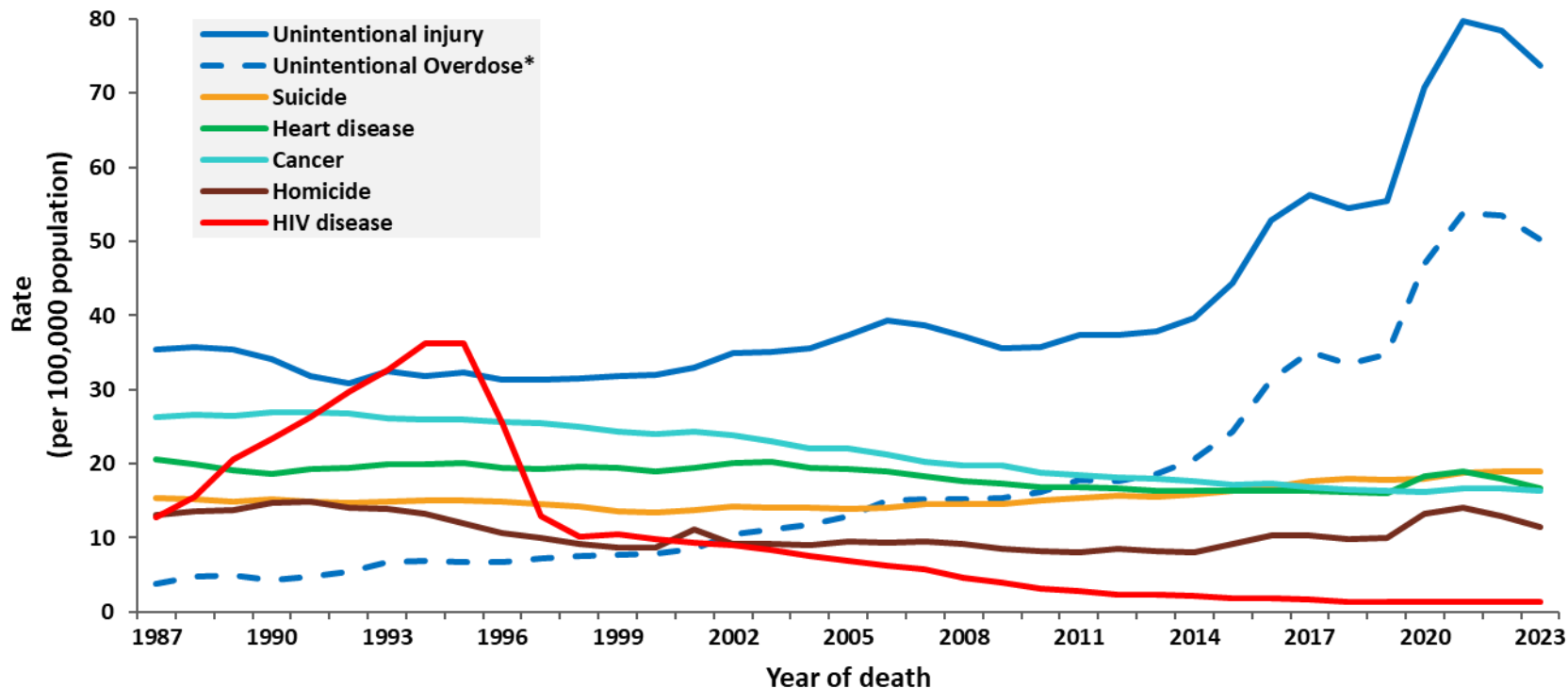
Average annual age-adjusted rates of death among Black/African American, Hispanic/Latino, and White persons in the general population with HIV disease as the underlying cause by region, 2019–2023—United States



Note. Data are from CDC WONDER Online Database and are based on death certificate data compiled by the National Center for Health Statistics. Hispanic/Latino persons can be of any race.

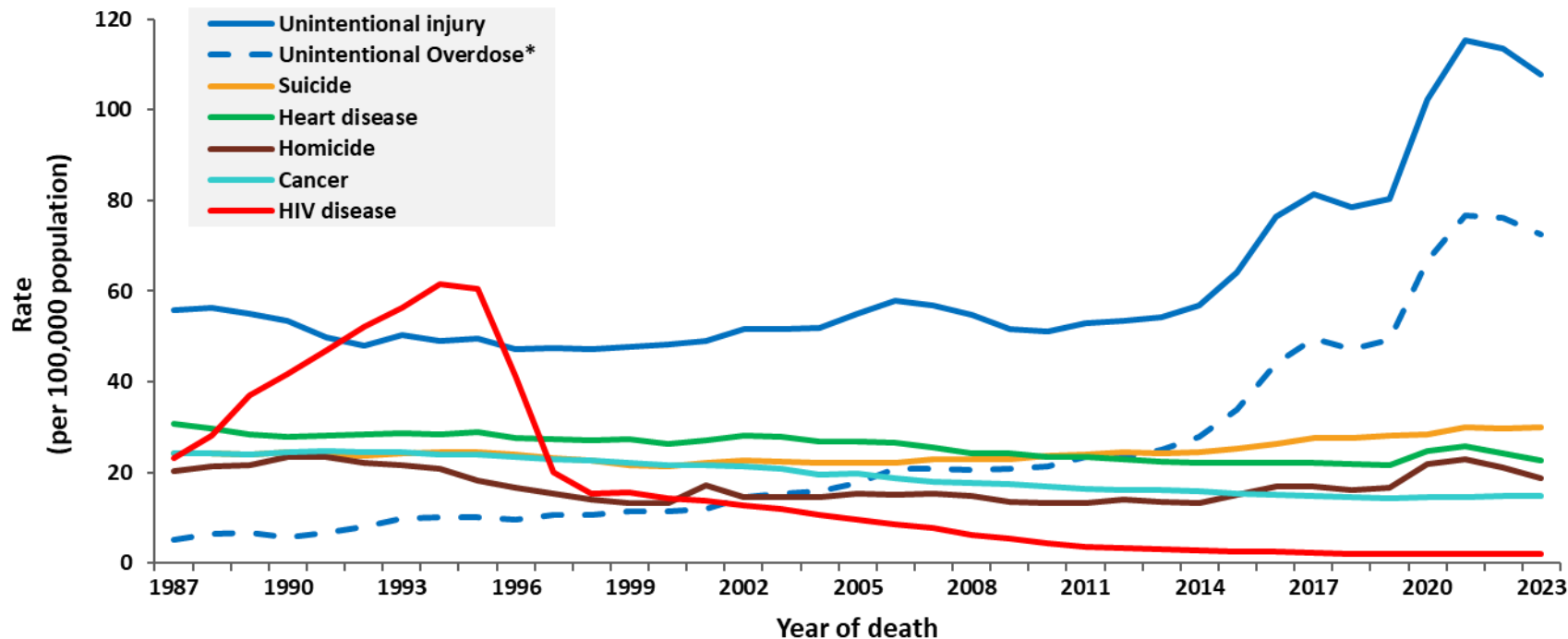
Trends in annual rates of death among persons aged 25–44 years

Deaths in the general population with HIV disease as the underlying cause versus the leading causes among persons aged 25–44 years, 1987–2023—United States



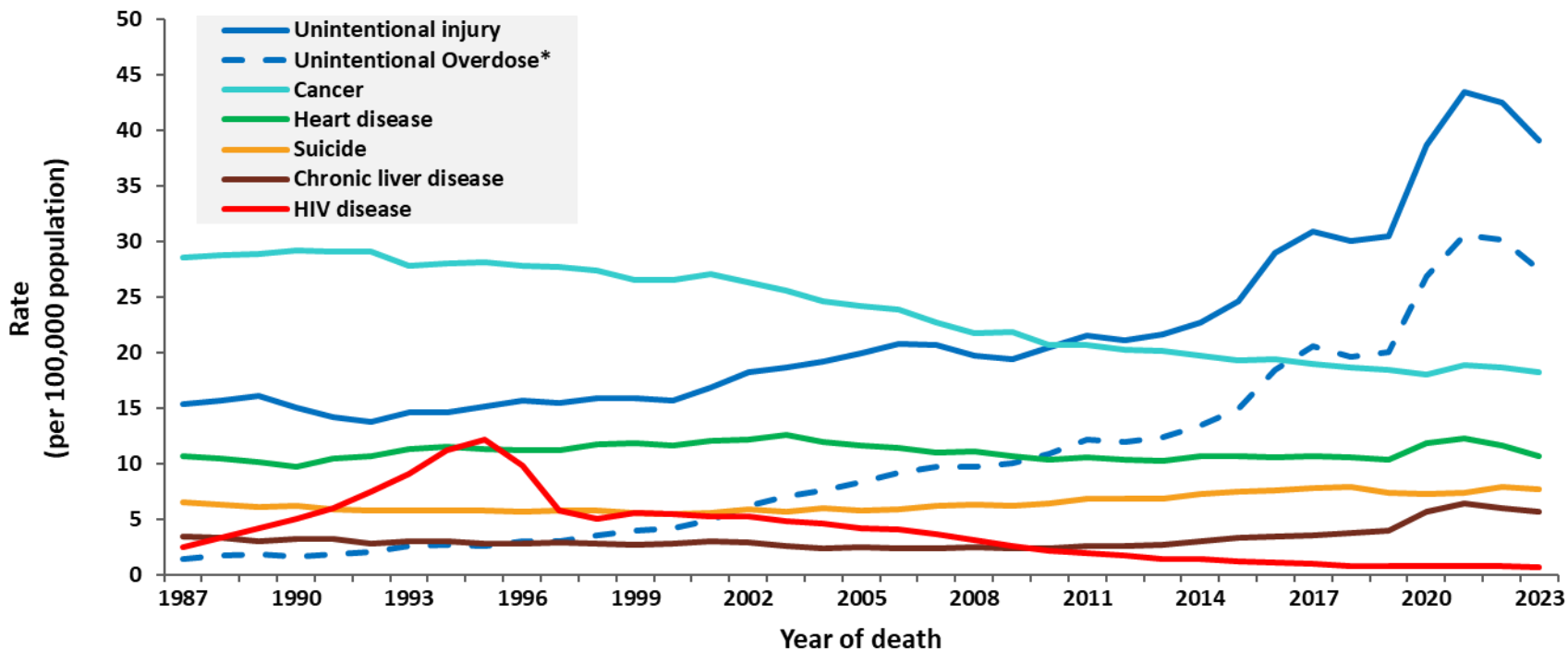
Note. Data are from CDC WONDER Online Database and are based on death certificate data compiled by the National Center for Health Statistics. *Deaths with an underlying cause of unintentional overdose are a subset of deaths with an underlying cause of unintentional injury.

Deaths in the general population with HIV disease as the underlying cause versus the leading causes among males aged 25–44 years, 1987–2023—United States



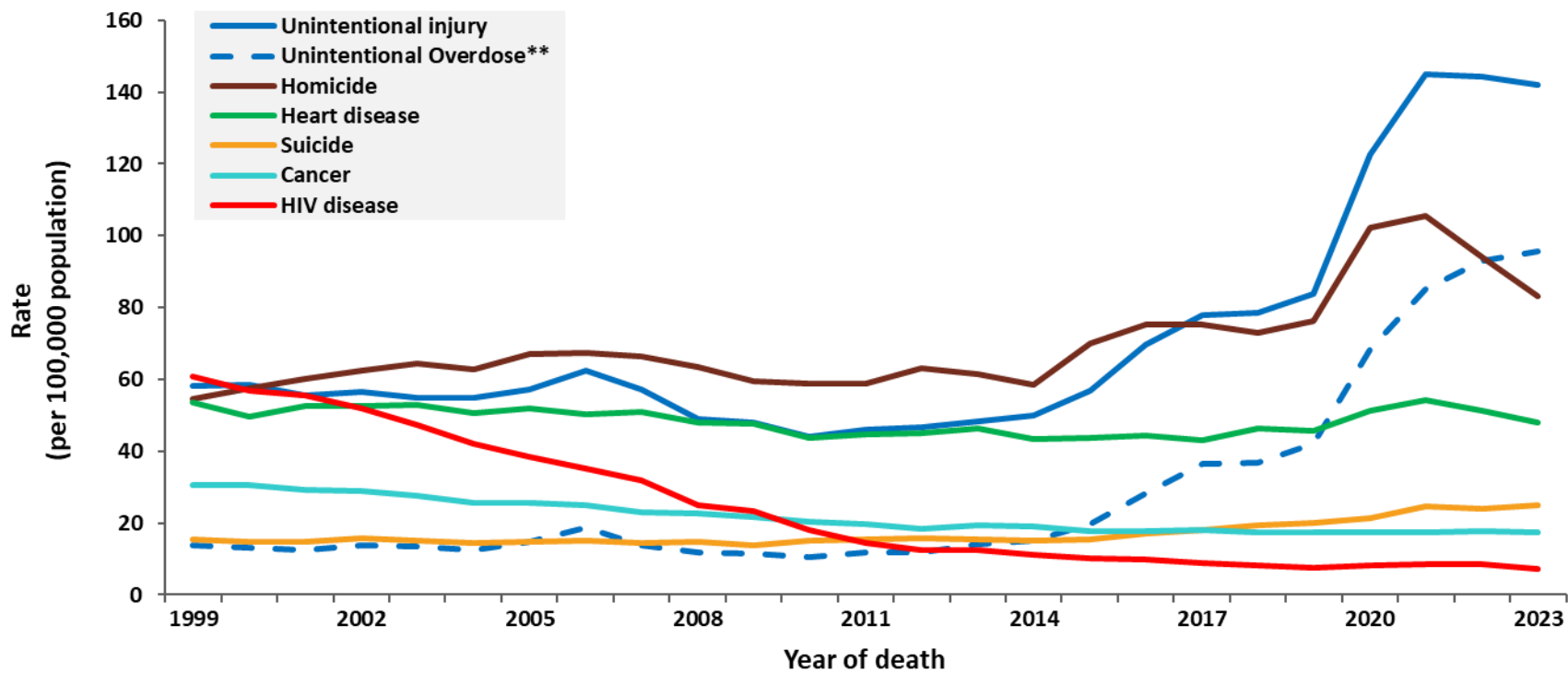
Note. Data are from CDC WONDER Online Database and are based on death certificate data compiled by the National Center for Health Statistics. *Deaths with an underlying cause of unintentional overdose are a subset of deaths with an underlying cause of unintentional injury.

Deaths in the general population with HIV disease as the underlying cause versus the leading causes among females aged 25–44 years, 1987–2023—United States



Note. Data are from CDC WONDER Online Database and are based on death certificate data compiled by the National Center for Health Statistics. *Deaths with an underlying cause of unintentional overdose are a subset of deaths with an underlying cause of unintentional injury.

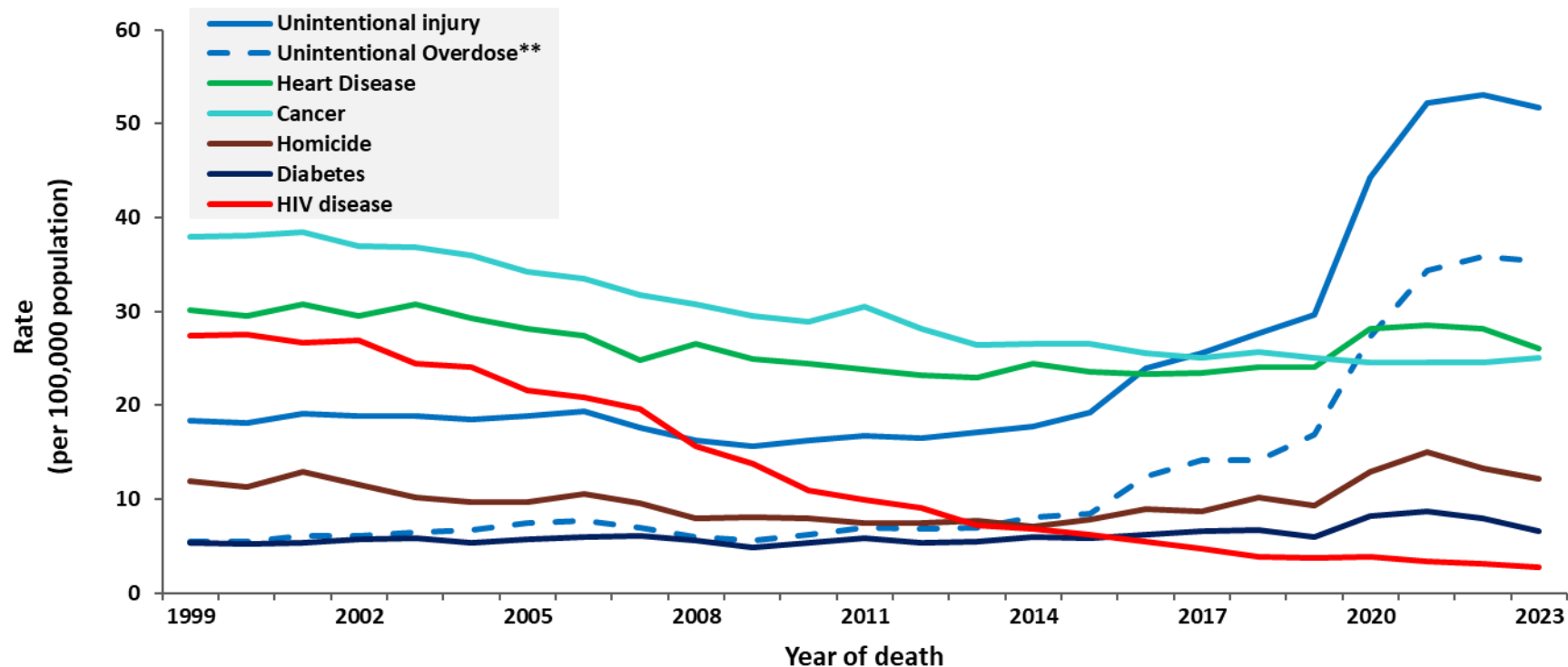
Deaths in the general population with HIV disease as the underlying cause versus the leading causes among Black/African American* males aged 25–44 years, 1999–2023—United States



Note. Data are from CDC WONDER Online Database and are based on death certificate data compiled by the National Center for Health Statistics. *Does not include persons of Hispanic/Latino ethnicity. **Deaths with an underlying cause of unintentional overdose are a subset of deaths with an underlying cause of unintentional injury.

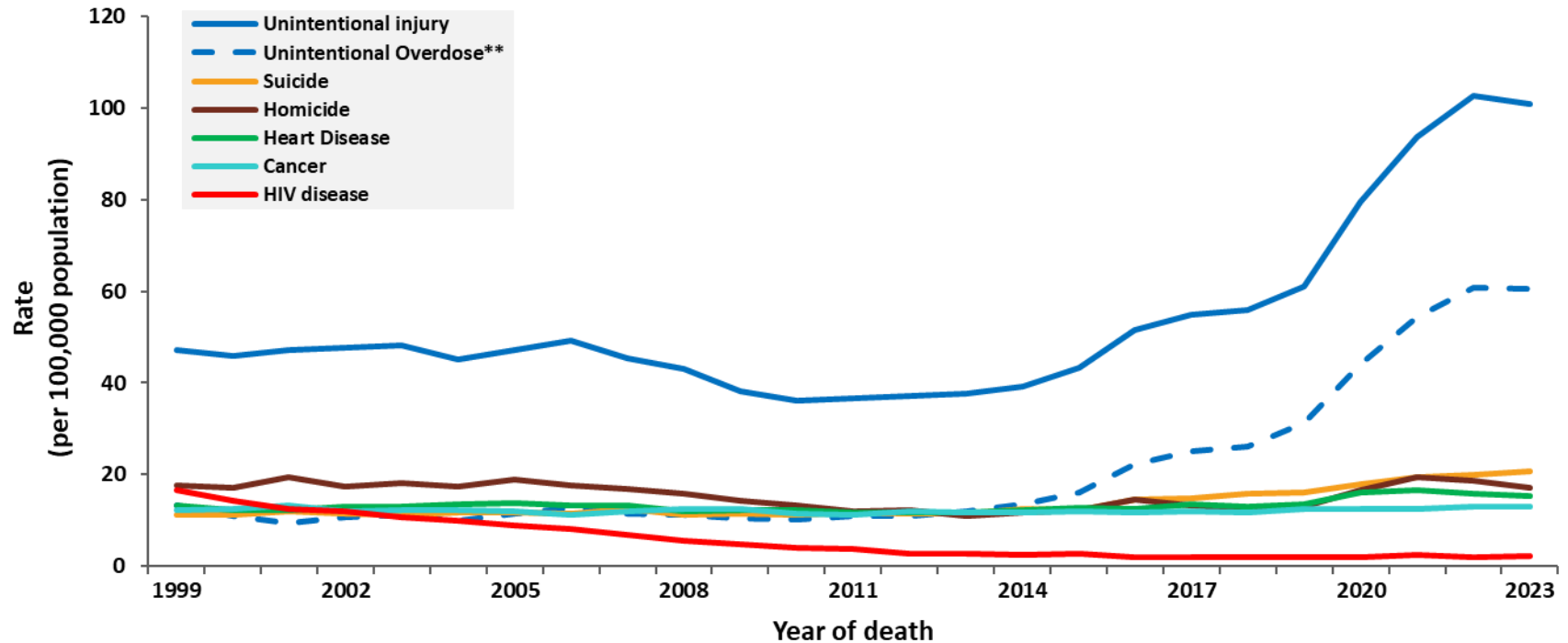


Deaths in the general population with HIV disease as the underlying cause versus the leading causes among Black/African American* females aged 25–44 years, 1999–2023—United States



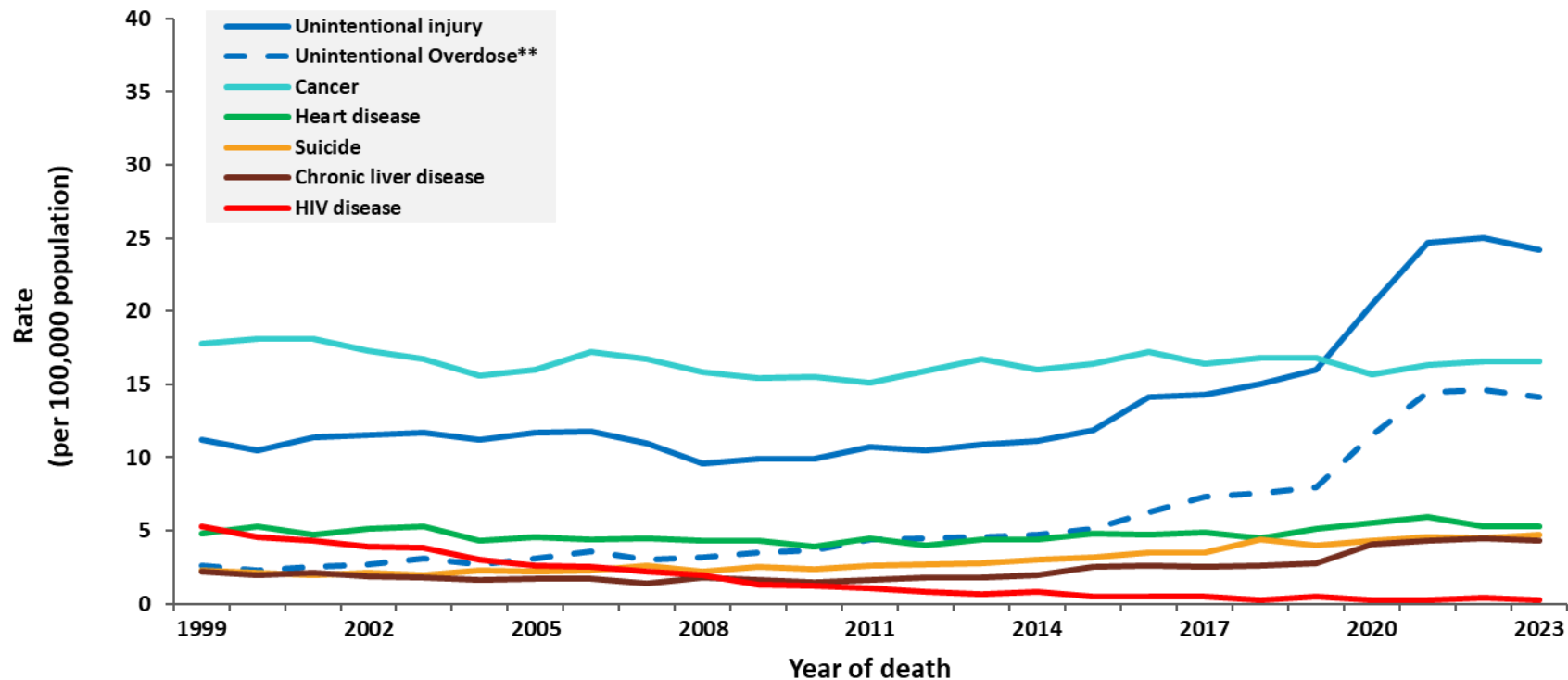
Note. Data are from CDC WONDER Online Database and are based on death certificate data compiled by the National Center for Health Statistics. *Does not include persons of Hispanic/Latino ethnicity. **Deaths with an underlying cause of unintentional overdose are a subset of deaths with an underlying cause of unintentional injury.

Deaths in the general population with HIV disease as the underlying cause versus the leading causes among Hispanic/Latino* males aged 25–44 years, 1999–2023—United States



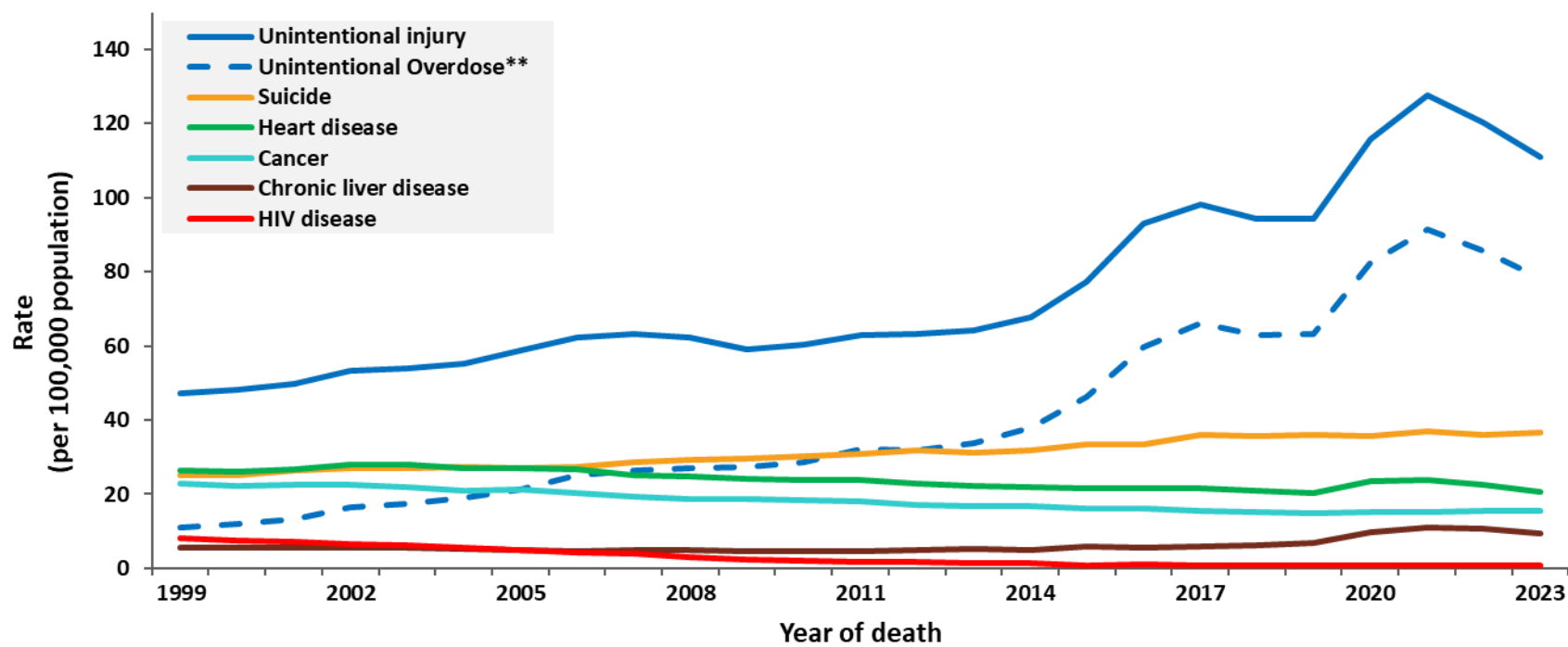
Note. Data are from CDC WONDER Online Database and are based on death certificate data compiled by the National Center for Health Statistics. *Hispanic/Latino persons can be of any race. **Deaths with an underlying cause of unintentional overdose are a subset of deaths with an underlying cause of unintentional injury.

Deaths in the general population with HIV disease as the underlying cause versus the leading causes among Hispanic/Latino* females aged 25–44 years, 1999–2023—United States



Note. Data are from CDC WONDER Online Database and are based on death certificate data compiled by the National Center for Health Statistics. *Hispanic/Latino persons can be of any race. **Deaths with an underlying cause of unintentional overdose are a subset of deaths with an underlying cause of unintentional injury

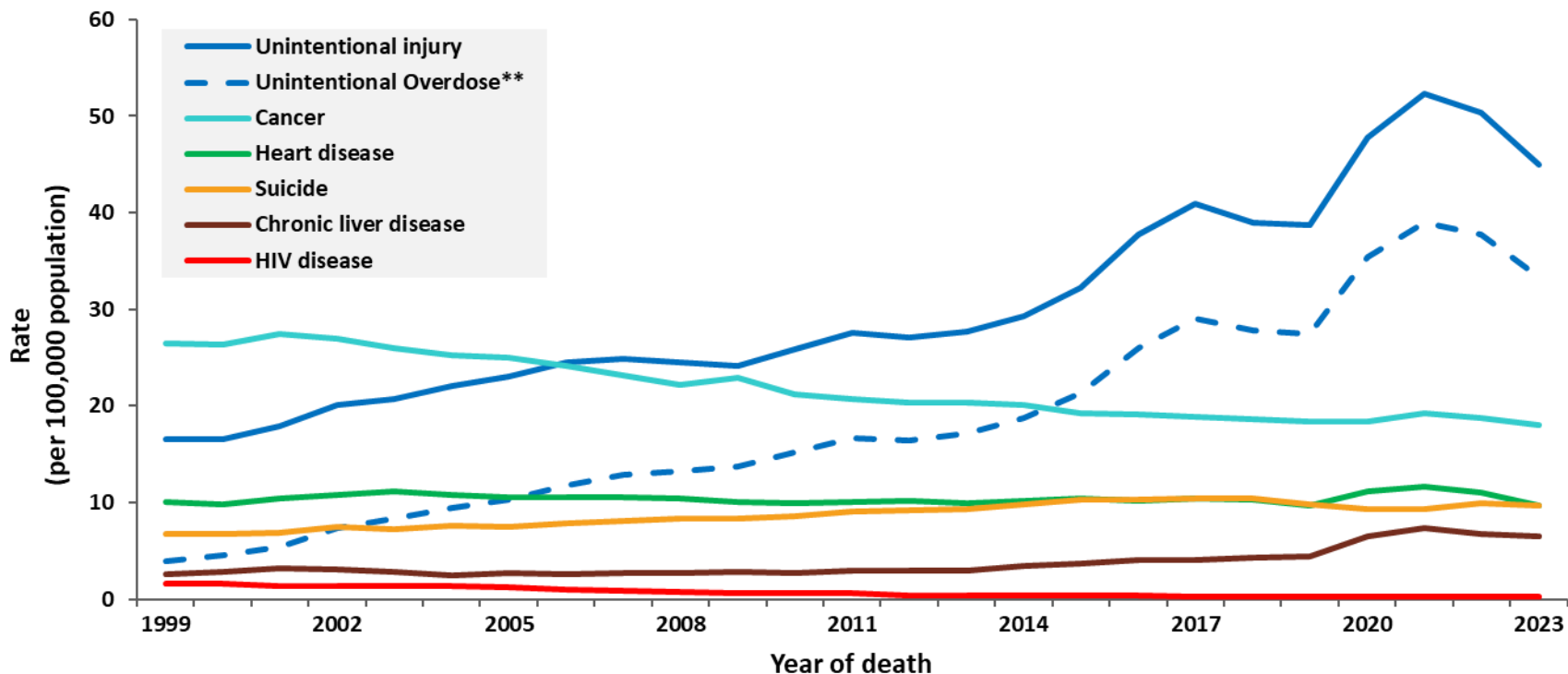
Deaths in the general population with HIV disease as the underlying cause versus the leading causes among White* males aged 25–44 years, 1999–2023—United States



Note. Data are from CDC WONDER Online Database and are based on death certificate data compiled by the National Center for Health Statistics. *Does not include persons of Hispanic/Latino ethnicity. **Deaths with an underlying cause of unintentional overdose are a subset of deaths with an underlying cause of unintentional injury.

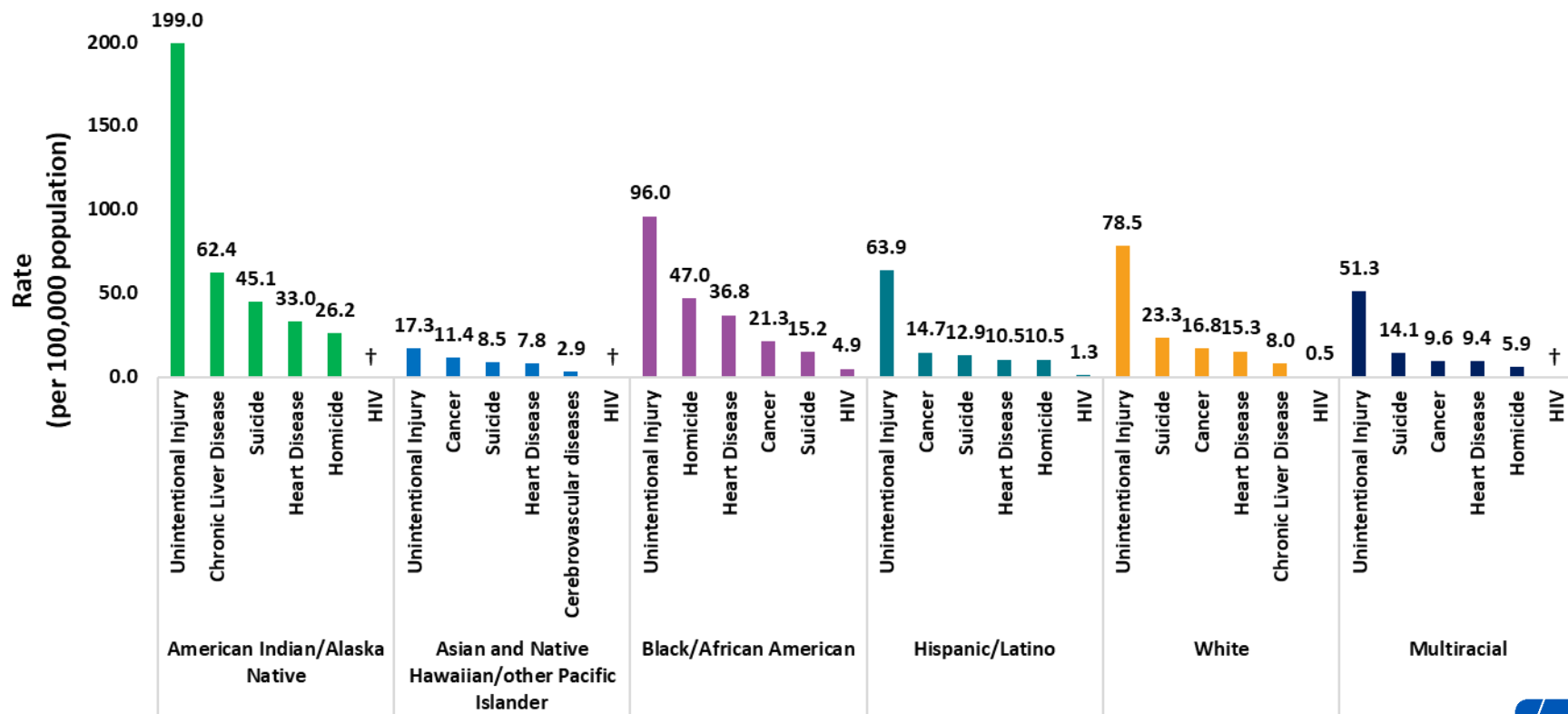


Deaths in the general population with HIV disease as the underlying cause versus the leading causes among White* females aged 25–44 years, 1999–2023—United States



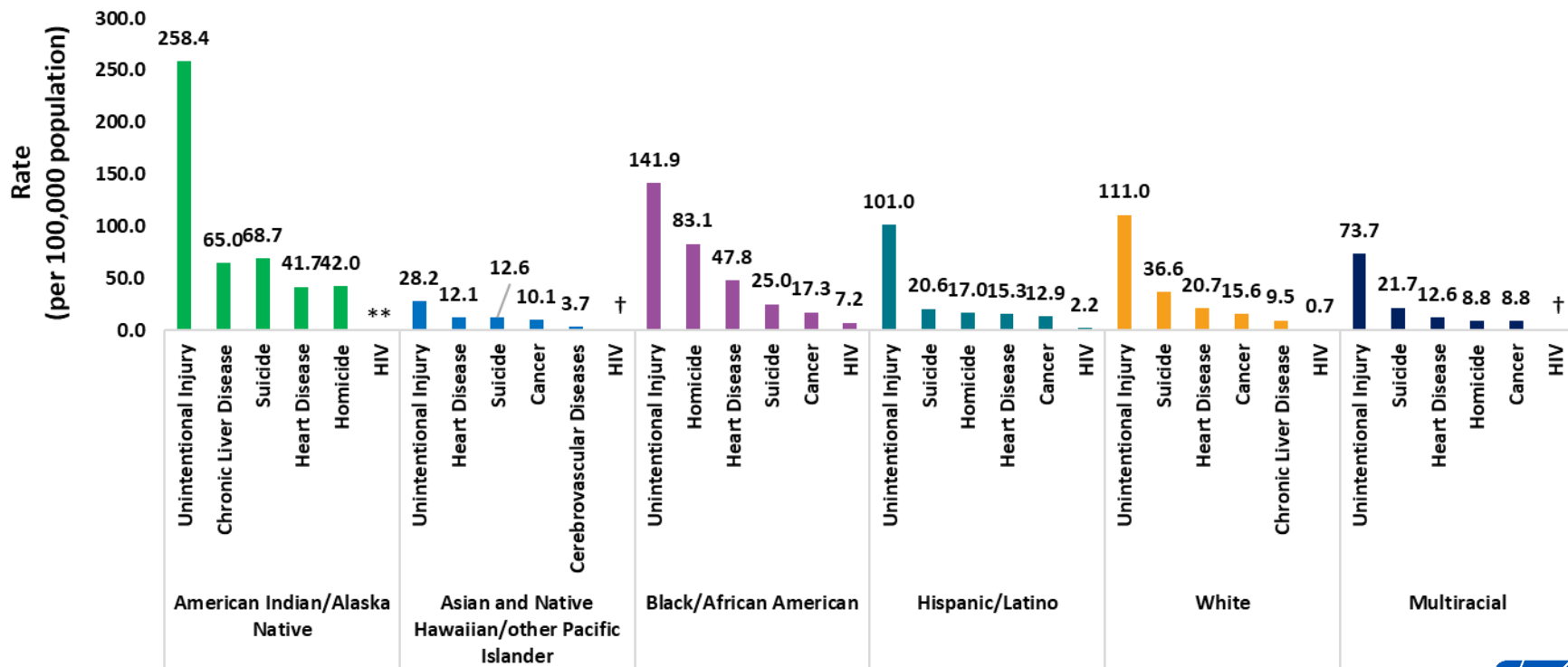
Note. Data are from CDC WONDER Online Database and are based on death certificate data compiled by the National Center for Health Statistics. *Does not include persons of Hispanic/Latino ethnicity. ** Deaths with an underlying cause of unintentional overdose are a subset of deaths with an underlying cause of unintentional injury.

Deaths in the general population with HIV disease as the underlying cause versus the top 5 leading causes among persons aged 25–44 years, by race/ethnicity 2023—United States



Note. Data from CDC WONDER Online Database based on death certificate data compiled by the National Center for Health Statistics. Hispanic/Latino persons can be of any race †Unreliable rate due to a numerator of less than 20 deaths.

Deaths in the general population with HIV disease as the underlying cause versus the top 5 leading causes among males aged 25–44 years, by race/ethnicity, 2023—United States

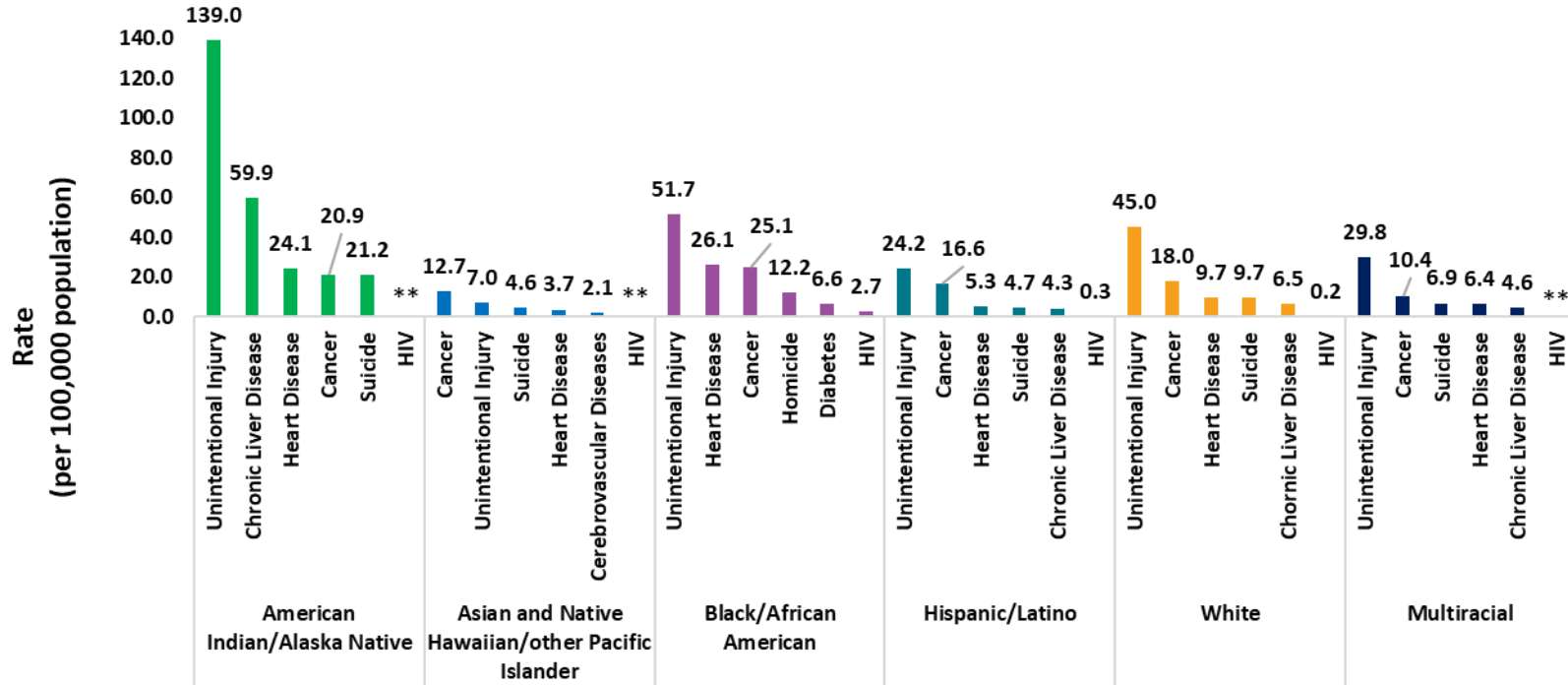


Note. Data from CDC WONDER Online Database based on death certificate data compiled by the National Center for Health Statistics. Hispanic/Latino persons can be of any race.

**Data meet the criteria for confidentiality constraints and are suppressed. †Unreliable rate due to a numerator of less than 20 deaths.



Deaths in the general population with HIV disease as the underlying cause versus the top 5 leading causes among females aged 25–44 years, by race/ethnicity, 2023—United States

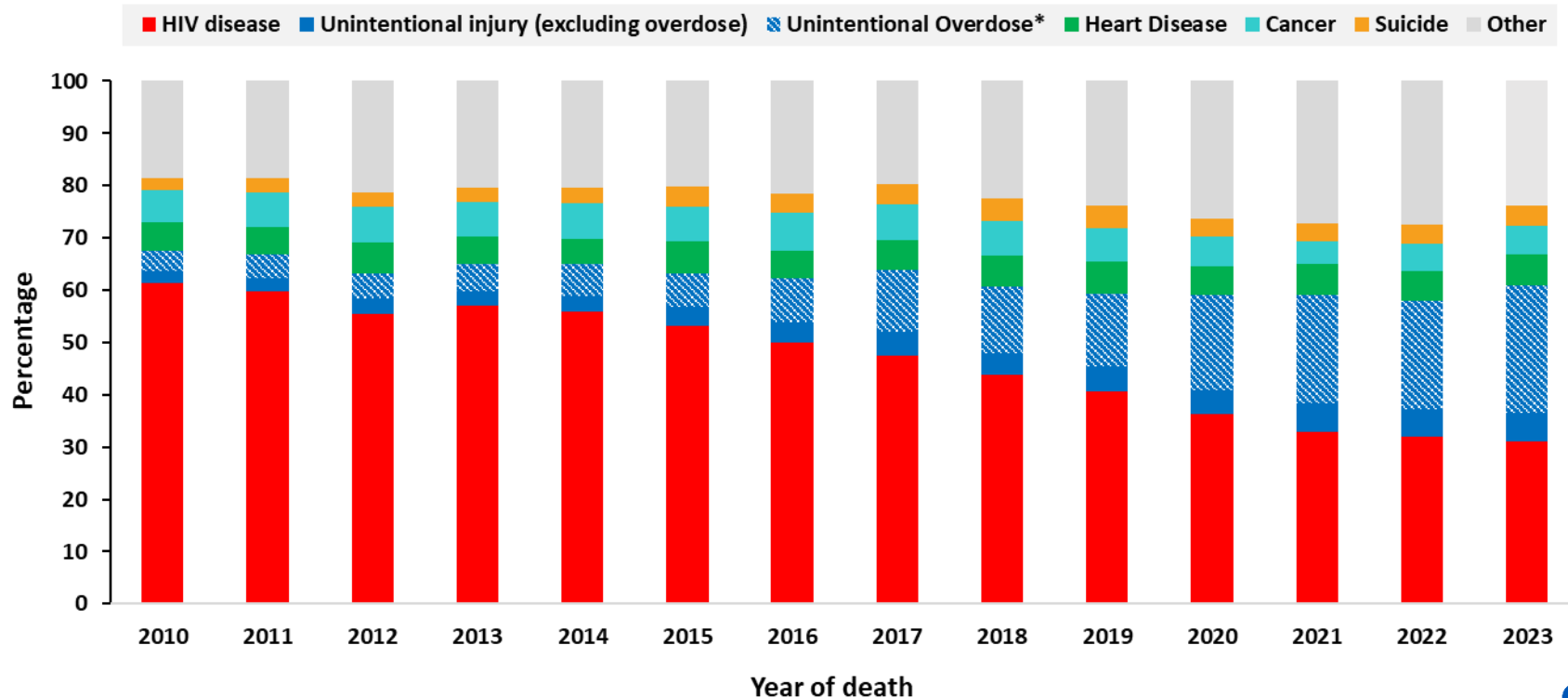


Note. Data from CDC WONDER Online Database based on death certificate data compiled by the National Center for Health Statistics. Hispanic/Latino persons can be of any race.

**Data meet the criteria for confidentiality constraints and are suppressed.

**Leading causes of death among persons
aged 25–44 years with diagnosed HIV**

Top 5 leading causes of death among persons aged 25–44 years with diagnosed HIV, 2010–2023—United States

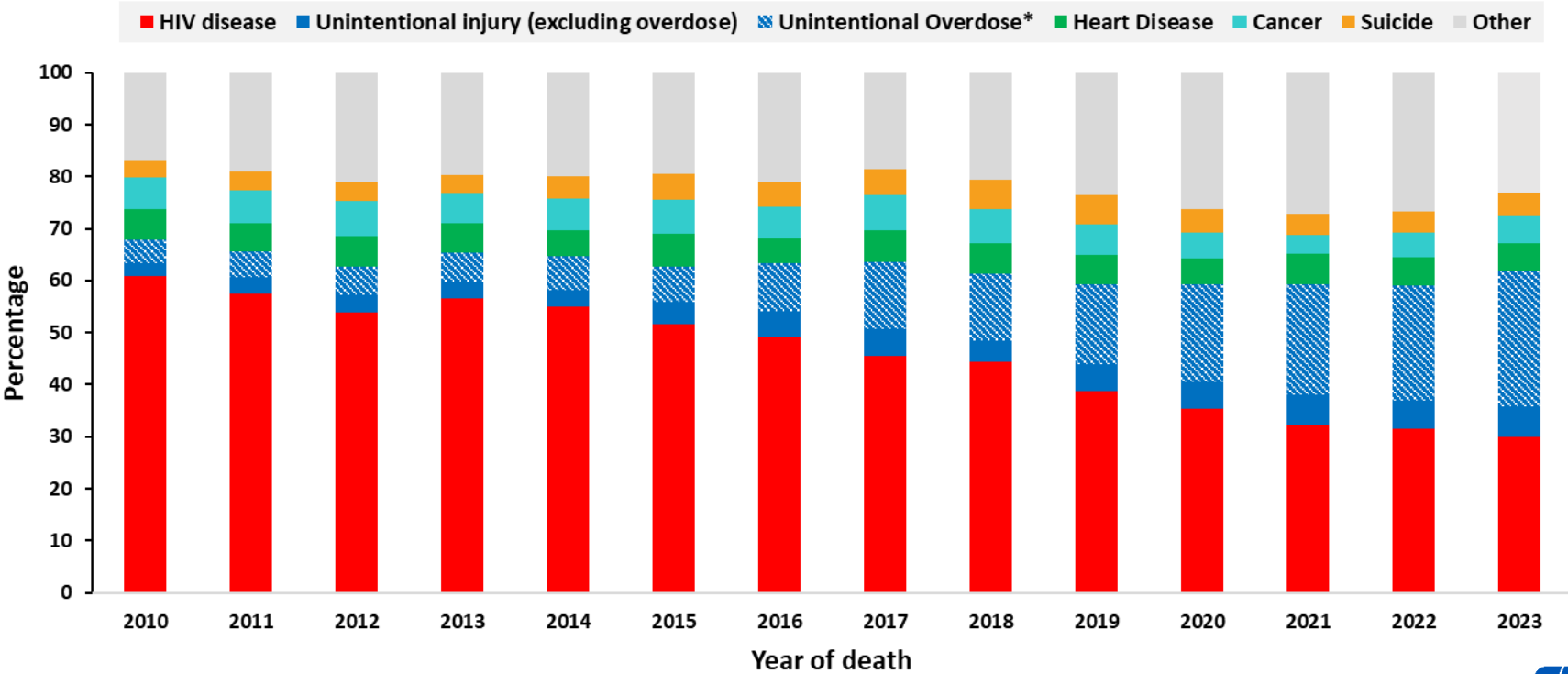


Note. Data on cause of death among persons with diagnosed HIV are from the National HIV Surveillance System (NHSS) and presented for persons with a known cause of death.

*Deaths with an underlying cause of unintentional overdose are a subset of deaths with an underlying cause of unintentional injury.



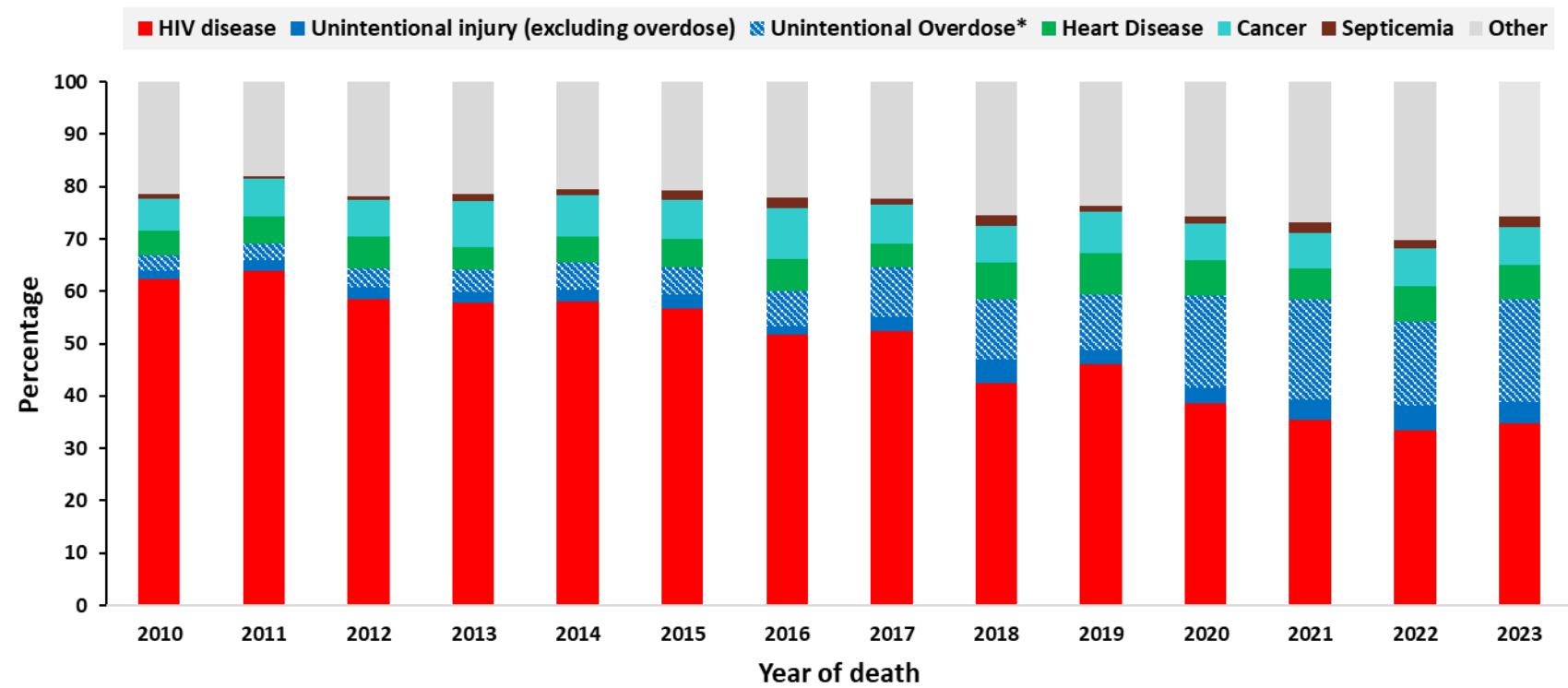
Top 5 leading causes of death among males aged 25–44 years with diagnosed HIV, 2010–2023—United States



Note. Data on cause of death among persons with diagnosed HIV are from the National HIV Surveillance System (NHSS) and presented for persons with a known cause of death.
*Deaths with an underlying cause of unintentional overdose are a subset of deaths with an underlying cause of unintentional injury.



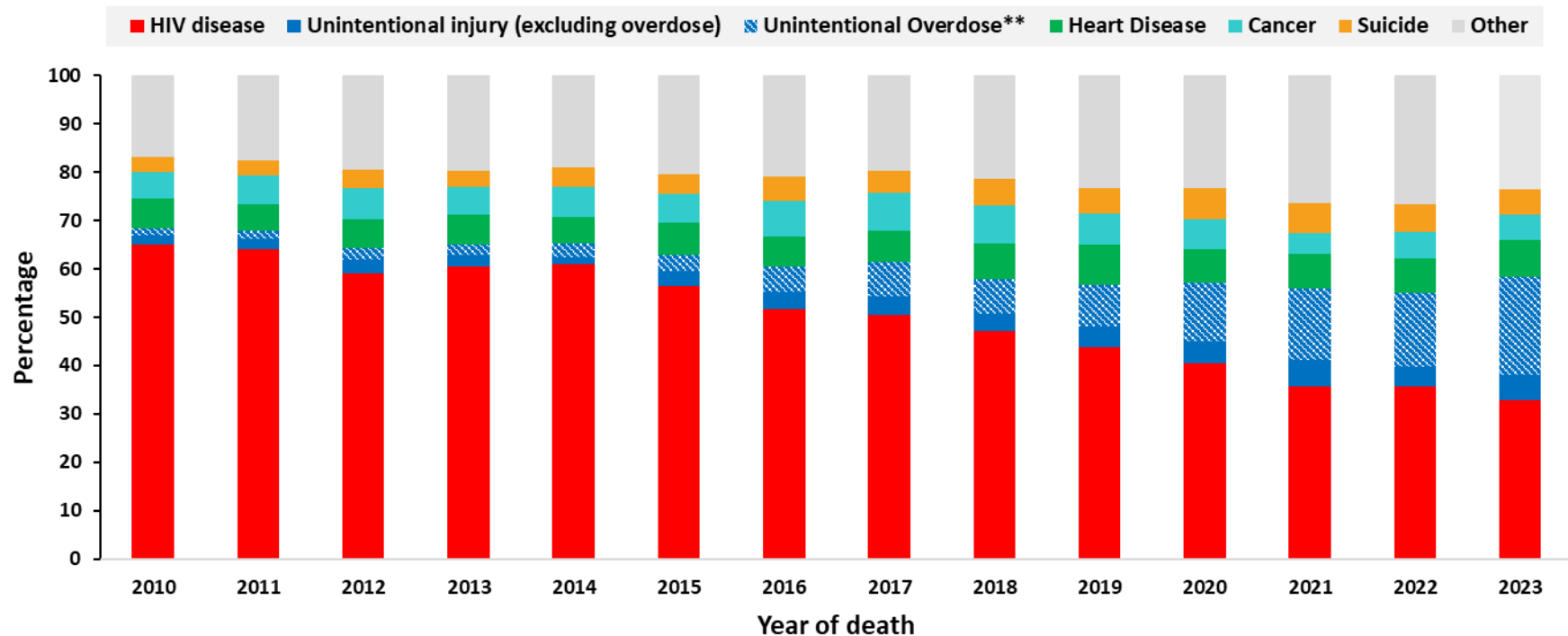
Top 5 leading causes of death among females aged 25–44 years with diagnosed HIV, 2010–2023—United States



Note. Data on cause of death among persons with diagnosed HIV are from the National HIV Surveillance System (NHSS) and presented for persons with a known cause of death.
*Deaths with an underlying cause of unintentional overdose are a subset of deaths with an underlying cause of unintentional injury.



Top 5 leading causes of death among Black/African American* persons aged 25–44 years with diagnosed HIV, 2010–2023—United States

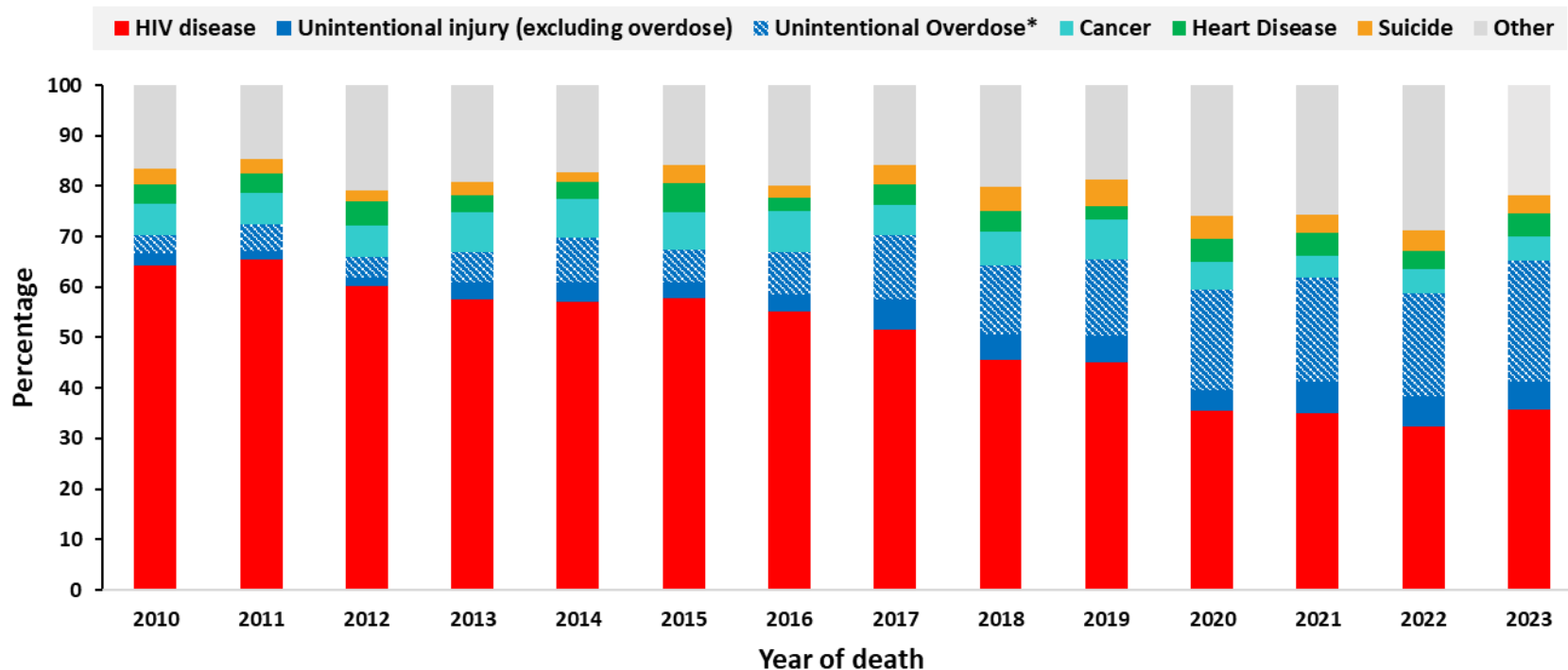


Note. Data on cause of death among persons with diagnosed HIV are from the National HIV Surveillance System (NHSS) and presented for persons with a known cause of death.

*Does not include persons of Hispanic/Latino ethnicity. **Deaths with an underlying cause of unintentional overdose are a subset of deaths with an underlying cause of unintentional injury.

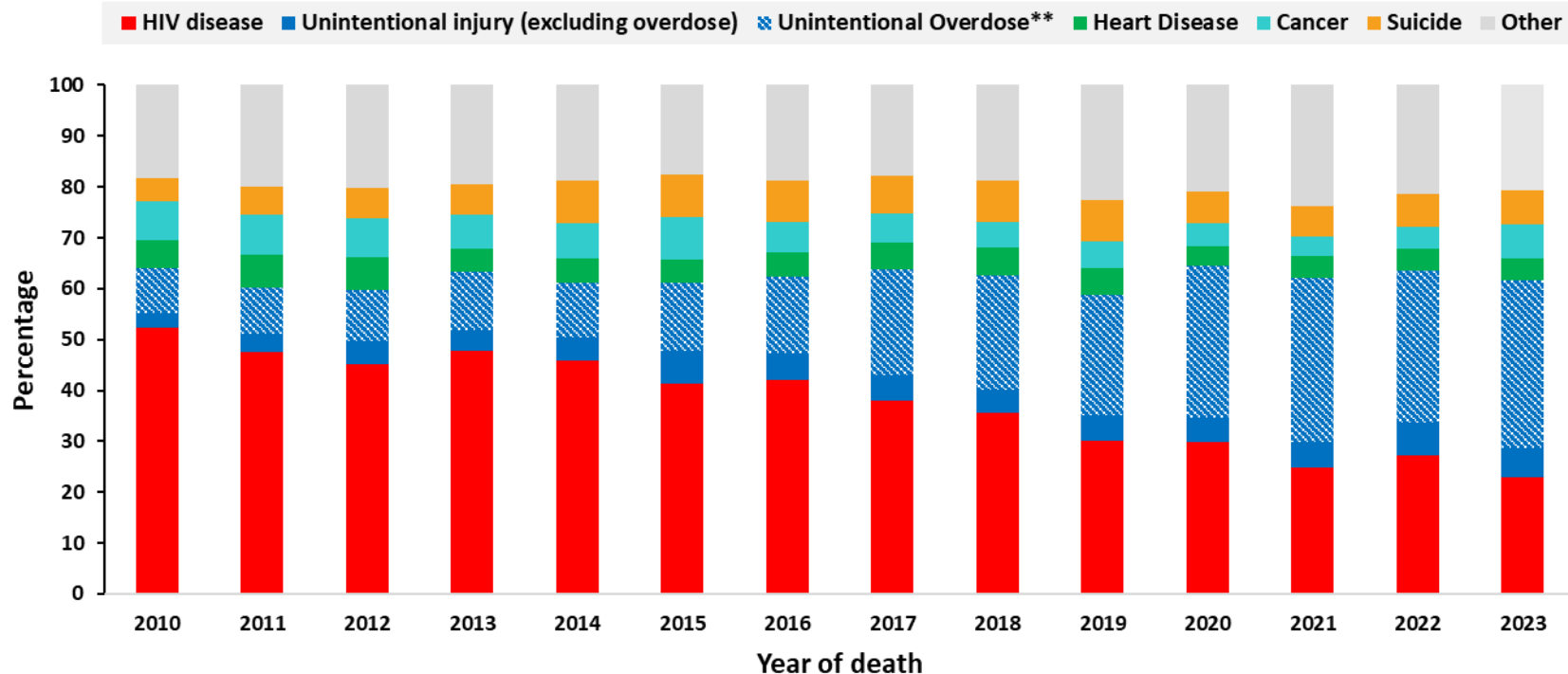


Top 5 leading causes of death among Hispanic/Latino persons aged 25–44 years with diagnosed HIV, 2010–2023—United States



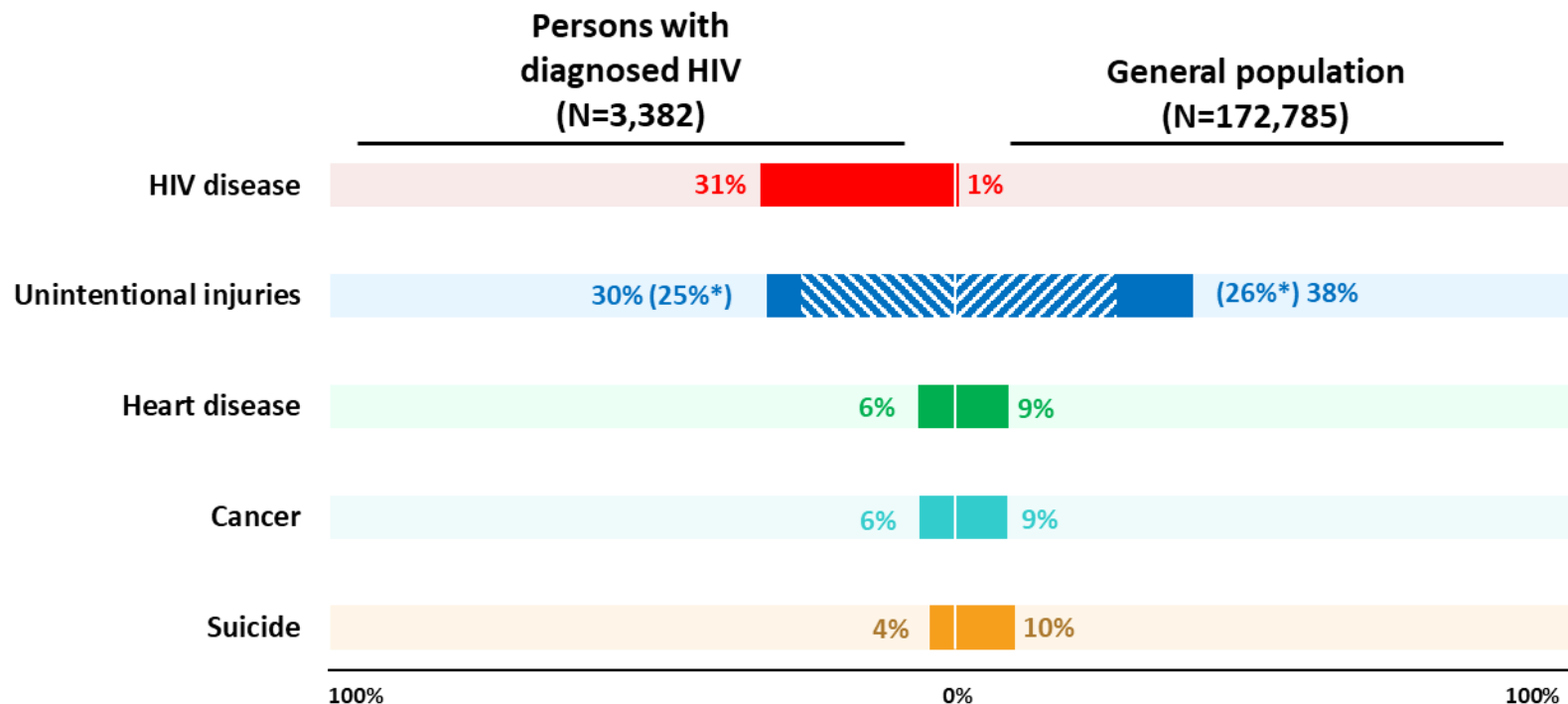
Note. Data on cause of death among persons with diagnosed HIV are from the National HIV Surveillance System (NHSS) and presented for persons with a known cause of death. Hispanic/Latino persons can be of any race. *Deaths with an underlying cause of unintentional overdose are a subset of deaths with an underlying cause of unintentional injury.

Top 5 leading causes of death among White* Persons aged 25–44 years with diagnosed HIV, 2010–2023—United States



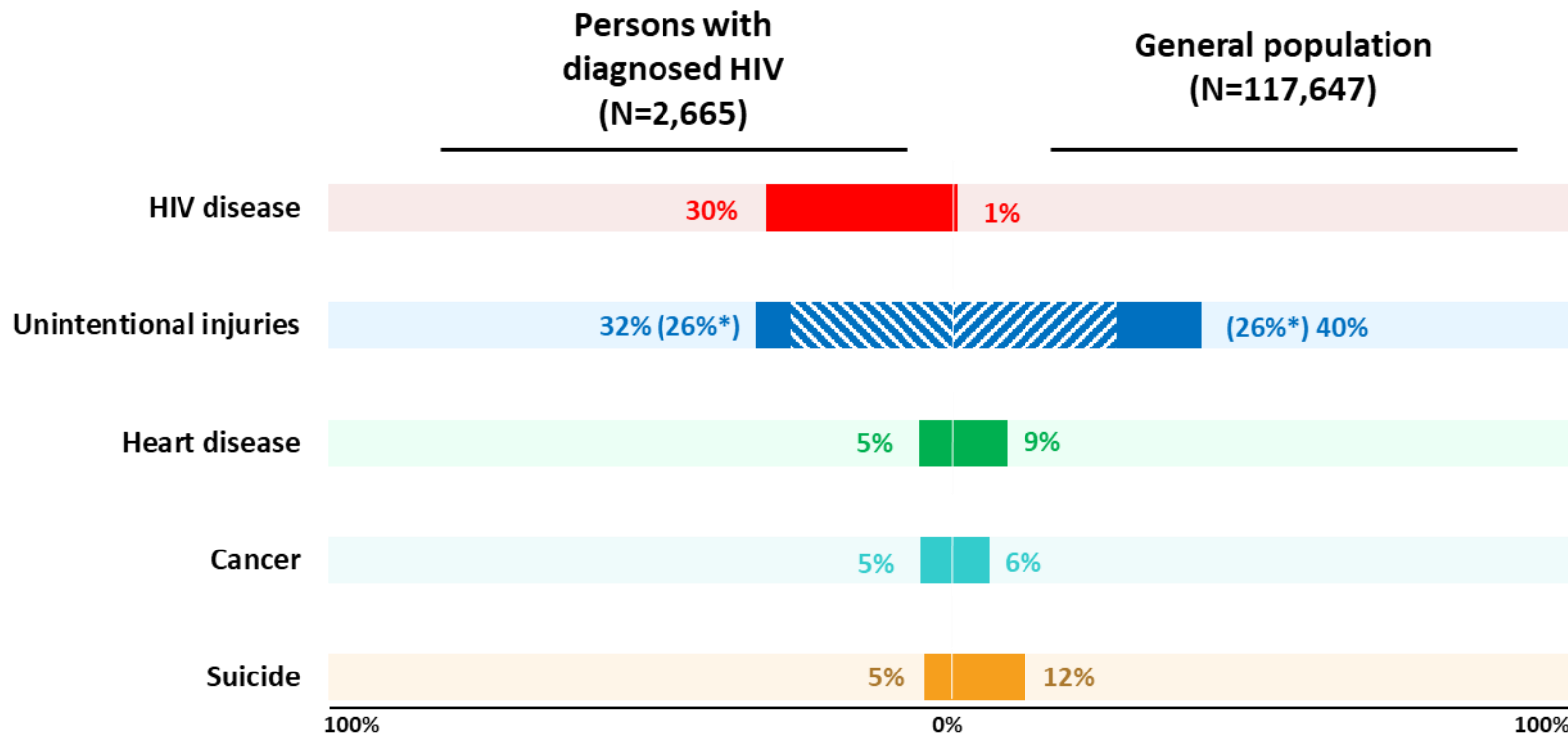
Note. Data on cause of death among persons with diagnosed HIV are from the National HIV Surveillance System (NHSS) and presented for persons with a known cause of death.
*Does not include persons of Hispanic/Latino ethnicity. **Deaths with an underlying cause of unintentional overdose are a subset of deaths with an underlying cause of unintentional injury.

Top 5 leading causes of death among persons aged 25–44 years with diagnosed HIV compared to the general population, 2023—United States



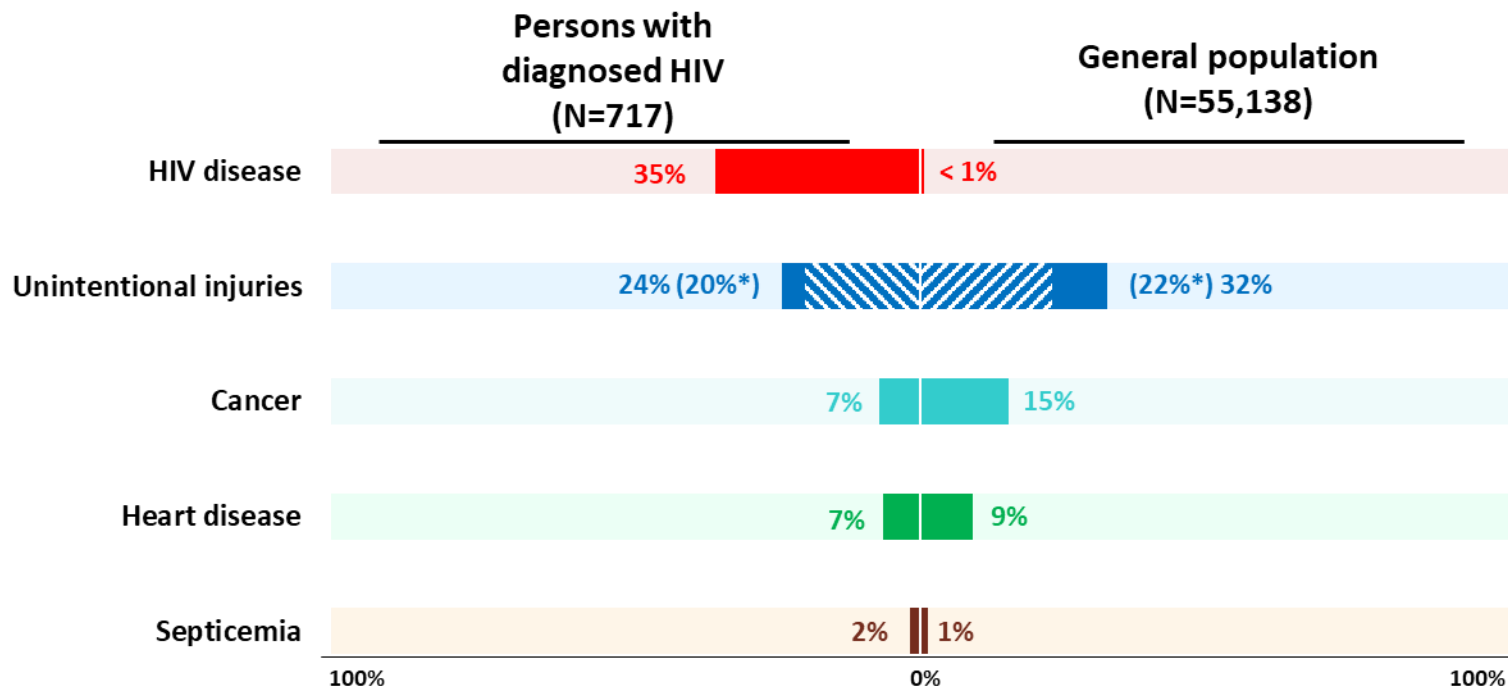
Note. Data on cause of death among persons with diagnosed HIV are from the National HIV Surveillance System (NHSS) and presented for persons with a known cause of death. Data on cause of death among the general population are from CDC WONDER.*Deaths with an underlying cause of unintentional overdose, denoted with blue stripes, are a subset of deaths with an underlying cause of unintentional injury, denoted with solid and striped blue.

Top 5 leading causes of death among males aged 25–44 years with diagnosed HIV compared to the general population, 2023—United States



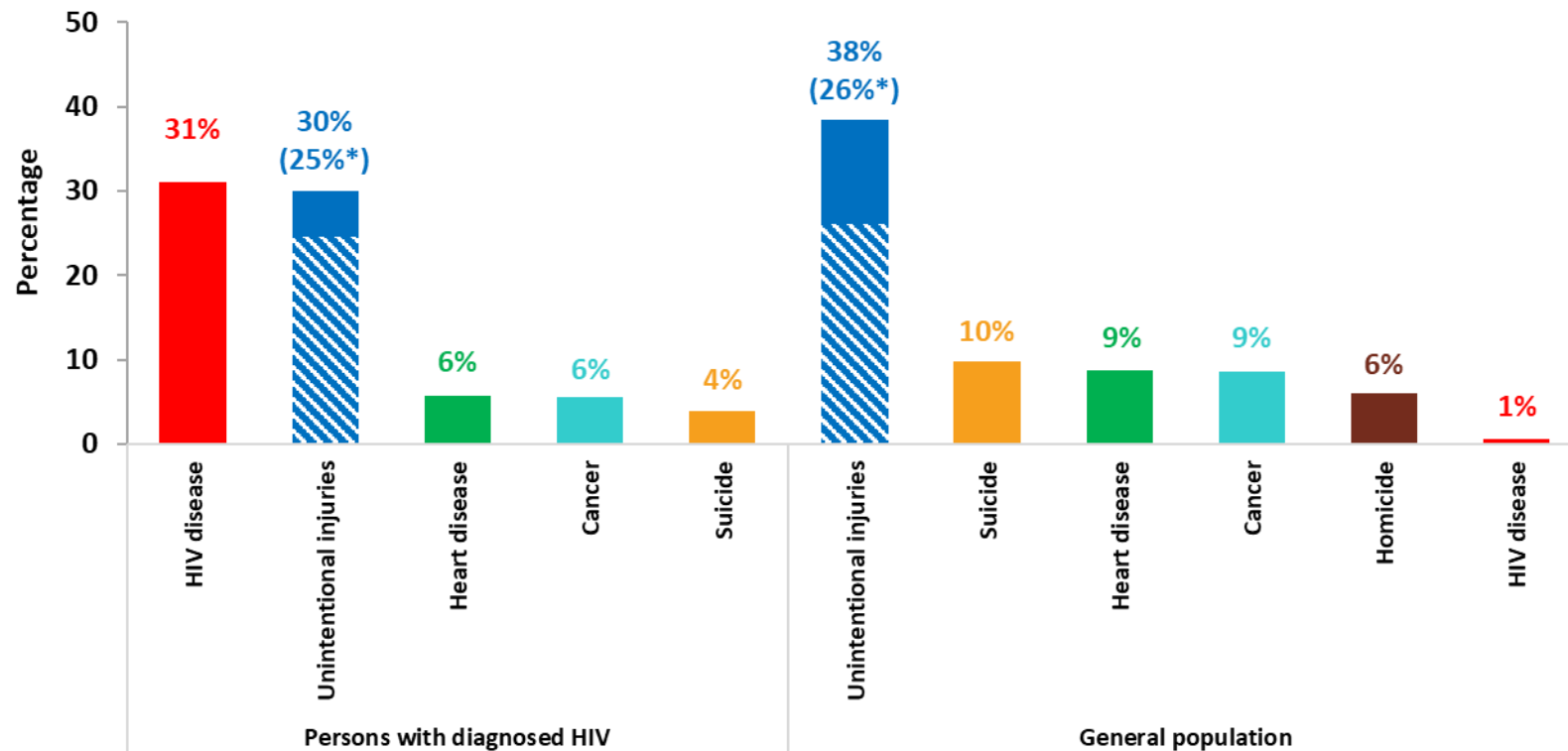
Note. Data on cause of death among persons with diagnosed HIV are from the National HIV Surveillance System (NHSS) and presented for persons with a known cause of death. Data on cause of death among the general population are from CDC WONDER. *Deaths with an underlying cause of unintentional overdose, denoted with blue stripes, are a subset of deaths with an underlying cause of unintentional injury, denoted with solid and striped blue.

Top 5 leading causes of death among females aged 25–44 years with diagnosed HIV compared to the general population, 2023—United States



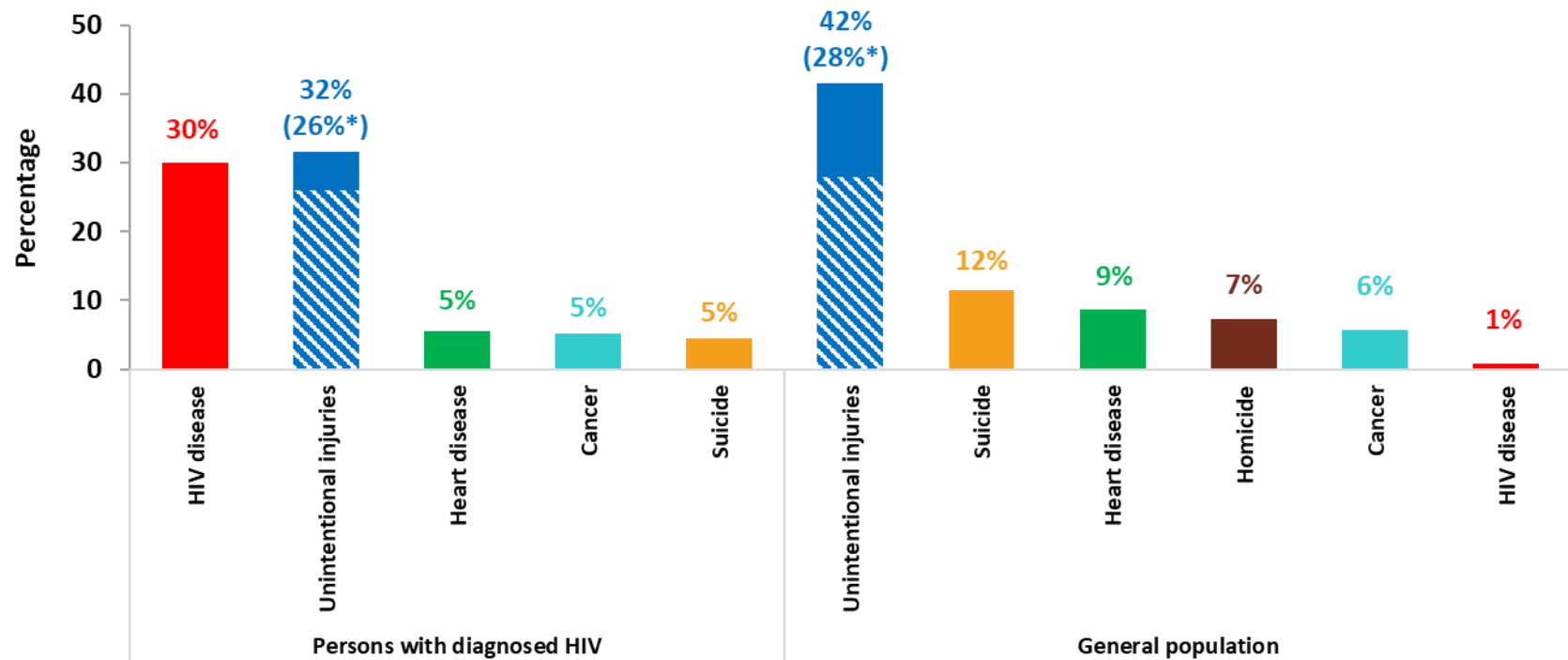
Note. Data on cause of death among persons with diagnosed HIV are from the National HIV Surveillance System (NHSS) and presented for persons with a known cause of death. Data on cause of death among the general population are from CDC WONDER. *Deaths with an underlying cause of unintentional overdose, denoted with blue stripes, are a subset of deaths with an underlying cause of unintentional injury, denoted with solid and striped blue.

Top 5 leading causes of death among persons aged 25–44 years with diagnosed HIV compared to the leading causes of death among persons aged 25–44 years in the general population, 2023—United States



Note. Data on cause of death among persons with diagnosed HIV are from the National HIV Surveillance System (NHSS) and presented for persons with a known cause of death. Data on cause of death among the general population are from CDC WONDER. *Deaths with an underlying cause of unintentional overdose, denoted with blue stripes, are a subset of deaths with an underlying cause of unintentional injury, denoted with solid and striped blue.

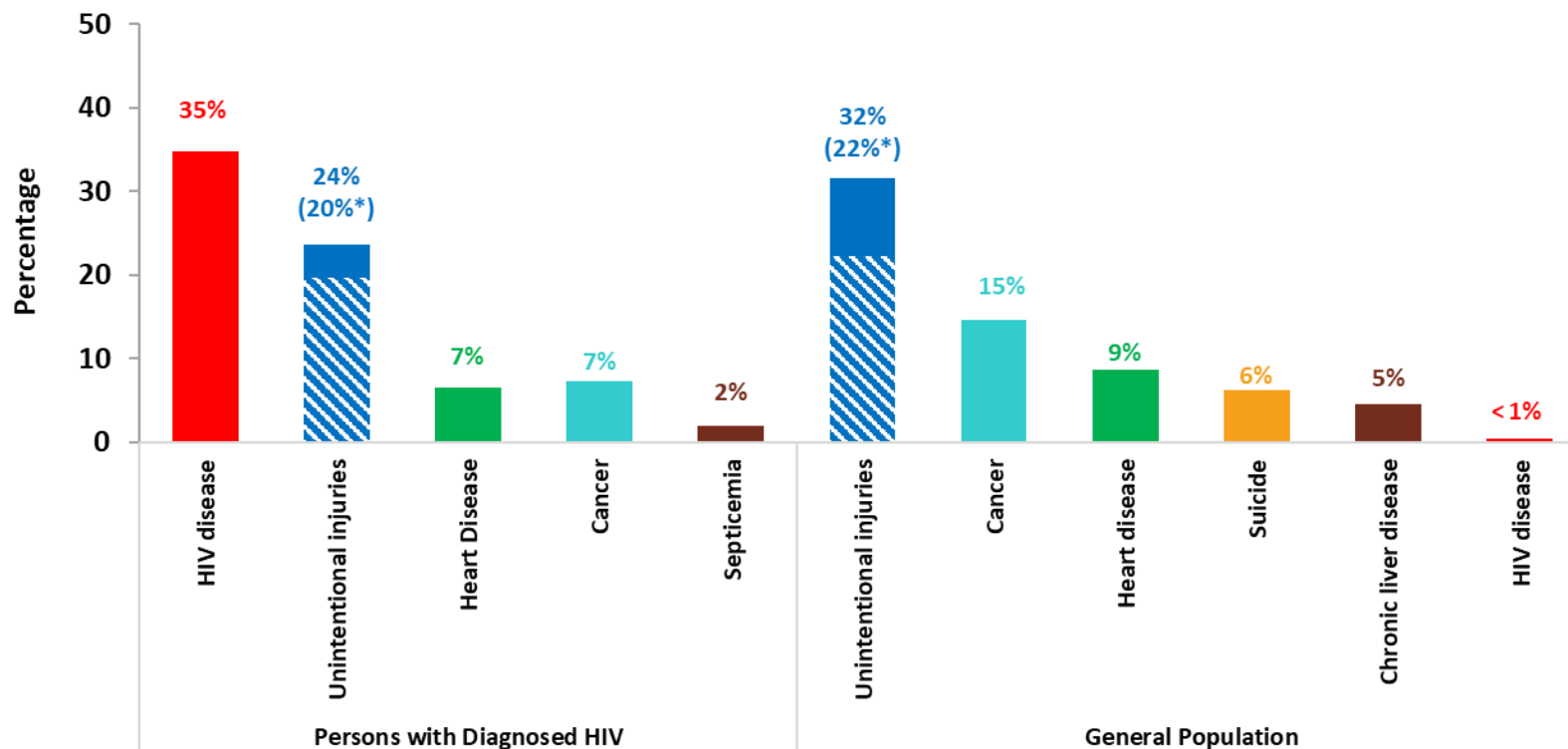
Top 5 leading causes of death among males aged 25–44 years with diagnosed HIV compared to the leading causes of death among males aged 25–44 years in the general population, 2023—United States



Note. Data on cause of death among persons with diagnosed HIV are from the National HIV Surveillance System (NHSS) and presented for persons with a known cause of death. Data on cause of death among the general population are from CDC WONDER. *Deaths with an underlying cause of unintentional overdose, denoted with blue stripes, are a subset of deaths with an underlying cause of unintentional injury, denoted with solid and striped blue.



Top 5 leading causes of death among females aged 25–44 years with diagnosed HIV compared to the leading causes of death among females aged 25–44 years in the general population, 2023—United States



Note. Data on cause of death among persons with diagnosed HIV are from the National HIV Surveillance System (NHSS) and presented for persons with a known cause of death. Data on cause of death among the general population are from CDC WONDER. *Deaths with an underlying cause of unintentional overdose, denoted with blue stripes, are a subset of deaths with an underlying cause of unintentional injury, denoted with solid and striped blue.

Summary

- After rapidly increasing since the 1980s, the annual rate of death due to HIV disease peaked around 1994, then decreased rapidly through 1997. In recent years, the rate of death due to HIV disease continues to slowly decline, decreasing from 2.6 deaths per 100,000 in 2010 to 1.3 deaths per 100,000 in 2023 (and ranking as the 12th underlying cause of death among persons 25–44 years).
- Among the general population in 2023, persons who died of HIV disease increasingly consist of:
 - males (76%)
 - Black/African American persons (48%)
 - persons residing in the South (55%)
 - persons aged 45 years or older (75%)
- By region, the average death rates from 2019–2023 among Black/African American persons in the Northeast were 13.8 times the rate of death among White persons. In the Midwest, South, and West, the rate of deaths due to HIV disease was 9, 7, and 6 times higher, respectively, among Black/African American persons compared to White persons.
- Among persons aged 25–44 years with diagnosed HIV who died in 2023 and have a known cause of death:
 - 33% of Black/African American persons died due to HIV disease compared to 23% of White persons
 - 35% of females and 30% of males died due to HIV disease
- HIV disease as an underlying cause of death ranked as the 7th leading cause among Black/African American males aged 25–44 years and the 11th leading cause among Black/African American females 25–44 years in 2023.