

Missouri Cancer Registry

Annual Report

2026



MISSOURI CANCER REGISTRY AND RESEARCH CENTER

The [Missouri Cancer Registry \(MCR\)](#) is Missouri's state-mandated, population-based central cancer registry. MCR collects, maintains, and disseminates information on newly diagnosed cancer cases throughout the state, including patient demographics, cancer site, stage at diagnosis, and treatment. These data are reported by hospitals, physician offices, pathology laboratories, treatment centers, and other healthcare facilities as required by Missouri statutes (192.650, 192.653, 192.655, 192.657 RSMo) and regulations (19 CSR 70-21.010) to submit cancer information to the state central cancer registry.

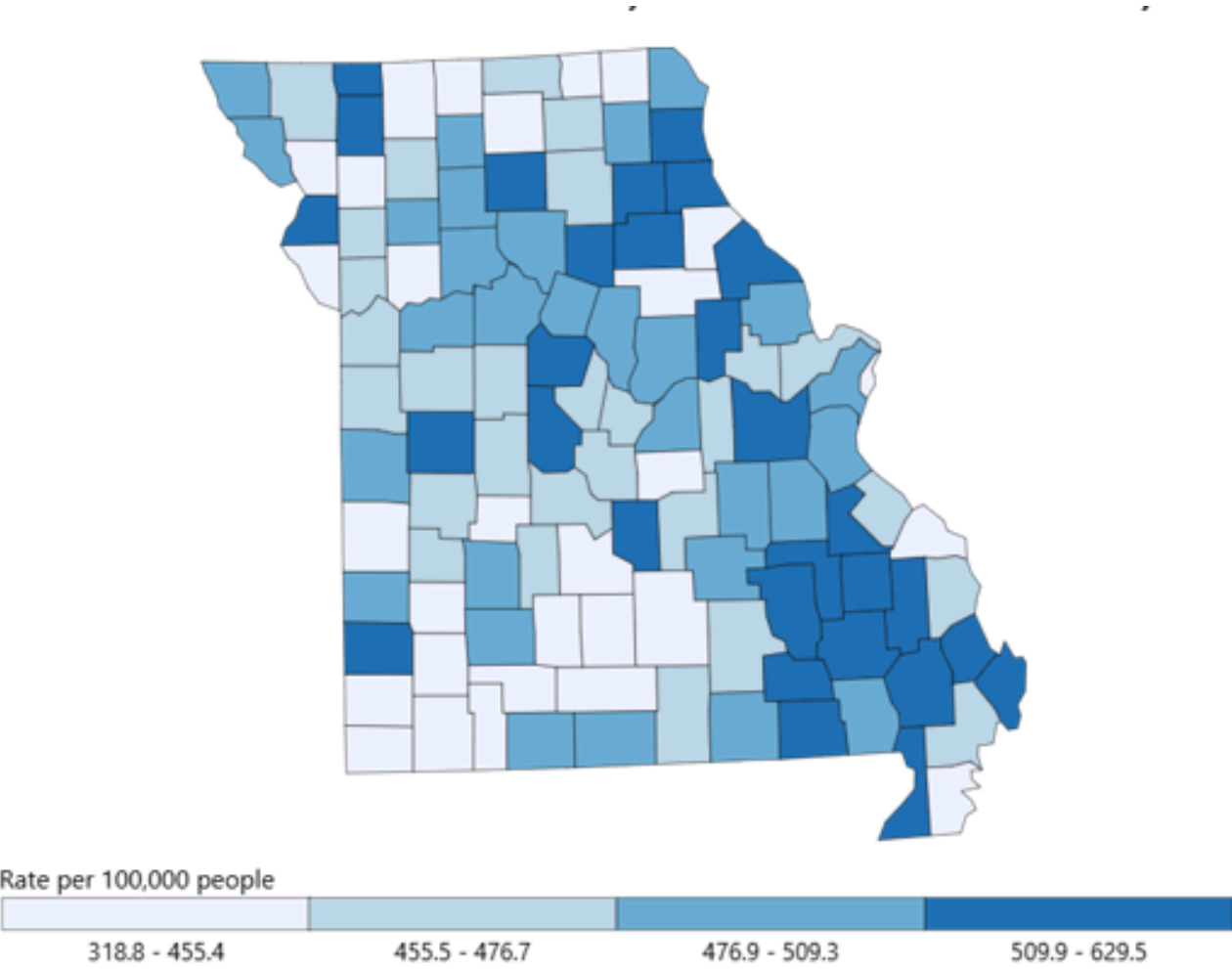
The MCR, Missouri's state-mandated central cancer registry, is located on the campus of the University of Missouri and housed within the Department of Public Health in the College of Health Sciences. MCR is a collaborative partnership between the [Missouri Department of Health and Senior Services \(DHSS\)](#) and the [University of Missouri](#). MCR has received financial support from the [Centers for Disease Control and Prevention's \(CDC's\) National Program of Cancer Registries \(NPCR\)](#) since 1995.

MCR data provide a comprehensive picture of the burden of cancer in Missouri and are used to monitor cancer trends, identify geographic and population-based disparities, support cancer research, evaluate prevention and screening efforts, and inform public health planning and policy. MCR follows national standards for cancer data quality and reporting through the [North American Association of Central Cancer Registries \(NAACCR\)](#).

Protecting patient confidentiality is fundamental to MCR work. MCR works with reporting facilities to ensure cancer data are accurate, complete, timely, and securely maintained. The Missouri Cancer Registry Annual Report makes summarized cancer information available to the public and provides an important resource for understanding the status of cancer in Missouri.

INCIDENCE OF CANCER IN MISSOURI

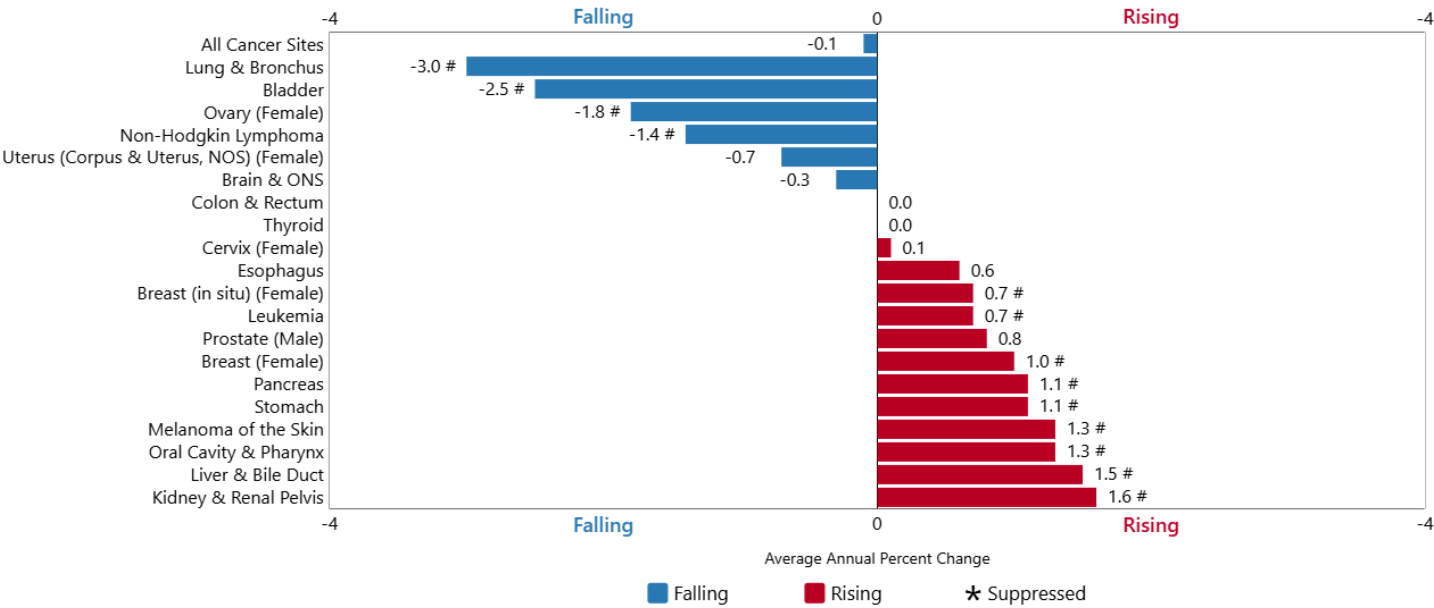
Rate of New Cancers in Missouri : All Types of Cancer 2019-2023



In Missouri from 2019-2023, there were **186,217 new cases** of cancer. For every 100,000 people, **472.9 cancer cases** were reported

Source - USCS data visualization

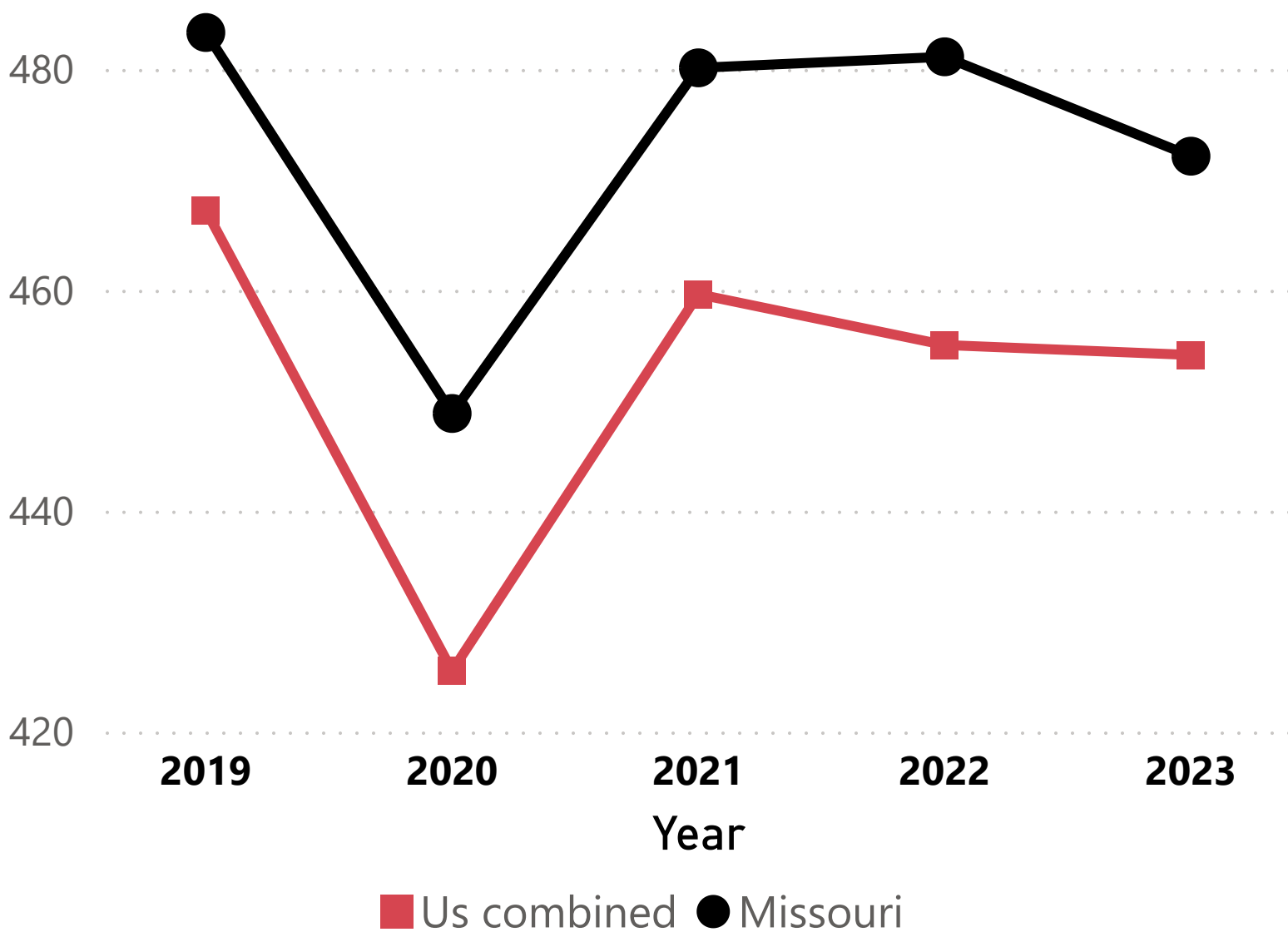
5 Year Changes- Incidence in Missouri 2018-2022



In Missouri, the 5 year change-incidence rates were **considerably low** for **Lung and bronchus, Ovarian, Non-Hodgkin lymphoma** whereas it was **considerably high** for **Prostate, Corpus and Uteri (NOS), Kidney and renal pelvis, Liver and Bile duct, Melanoma of skin, and Pancreas.**

Source - State Cancer Profile

Age-adjusted Incidence rate US vs Missouri 2019-2023

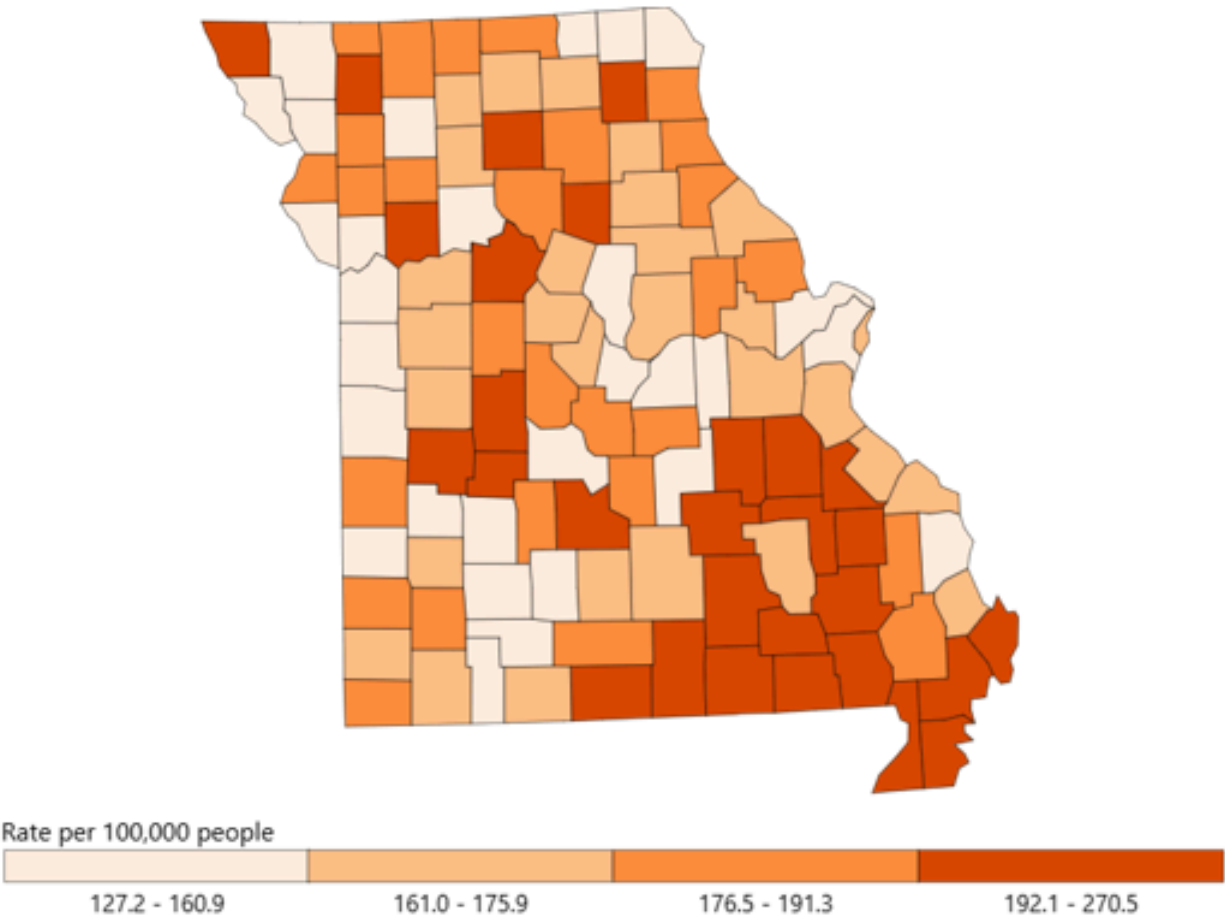


The line graph above compares the incidence rates in Missouri and the US from 2019 to 2023. Throughout these years, Missouri consistently exhibited **higher incidence rates** compared to the national average.

Source - CiNA Statistics

MORTALITY RATE OF CANCER IN MISSOURI

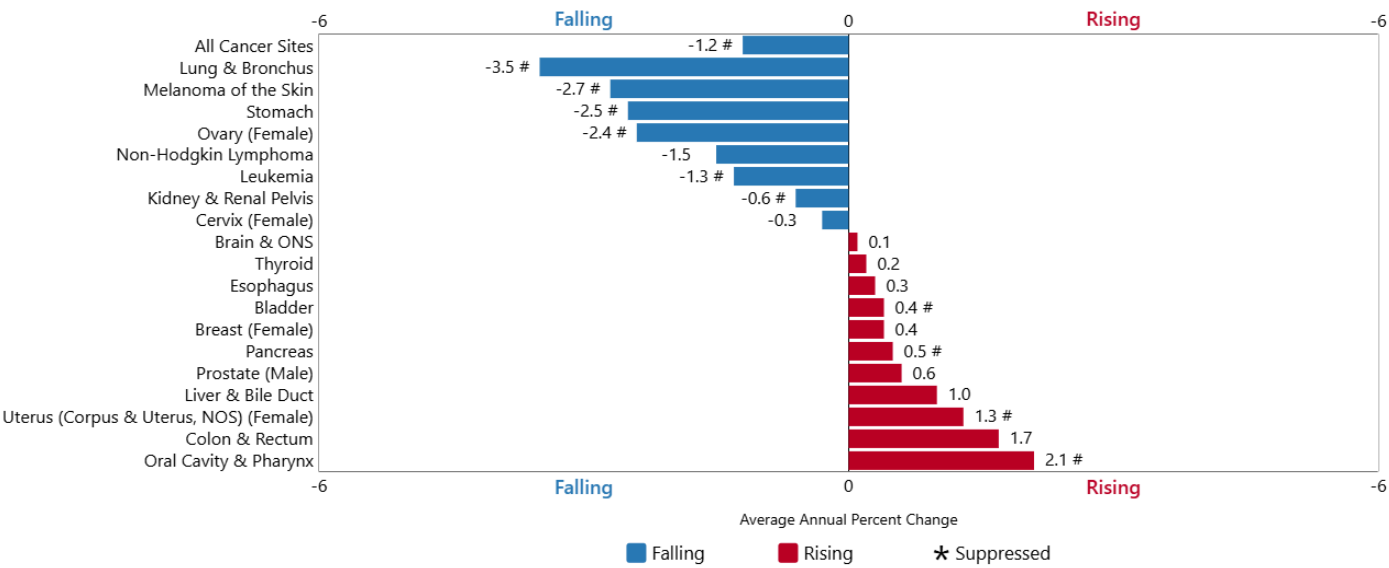
Mortality rate in Missouri 2020-2024



In Missouri from 2020-2024, there were **65,728 people who died of cancer**. For every 100,000 people, **161 died of cancer**.

Source - USCS data visualization

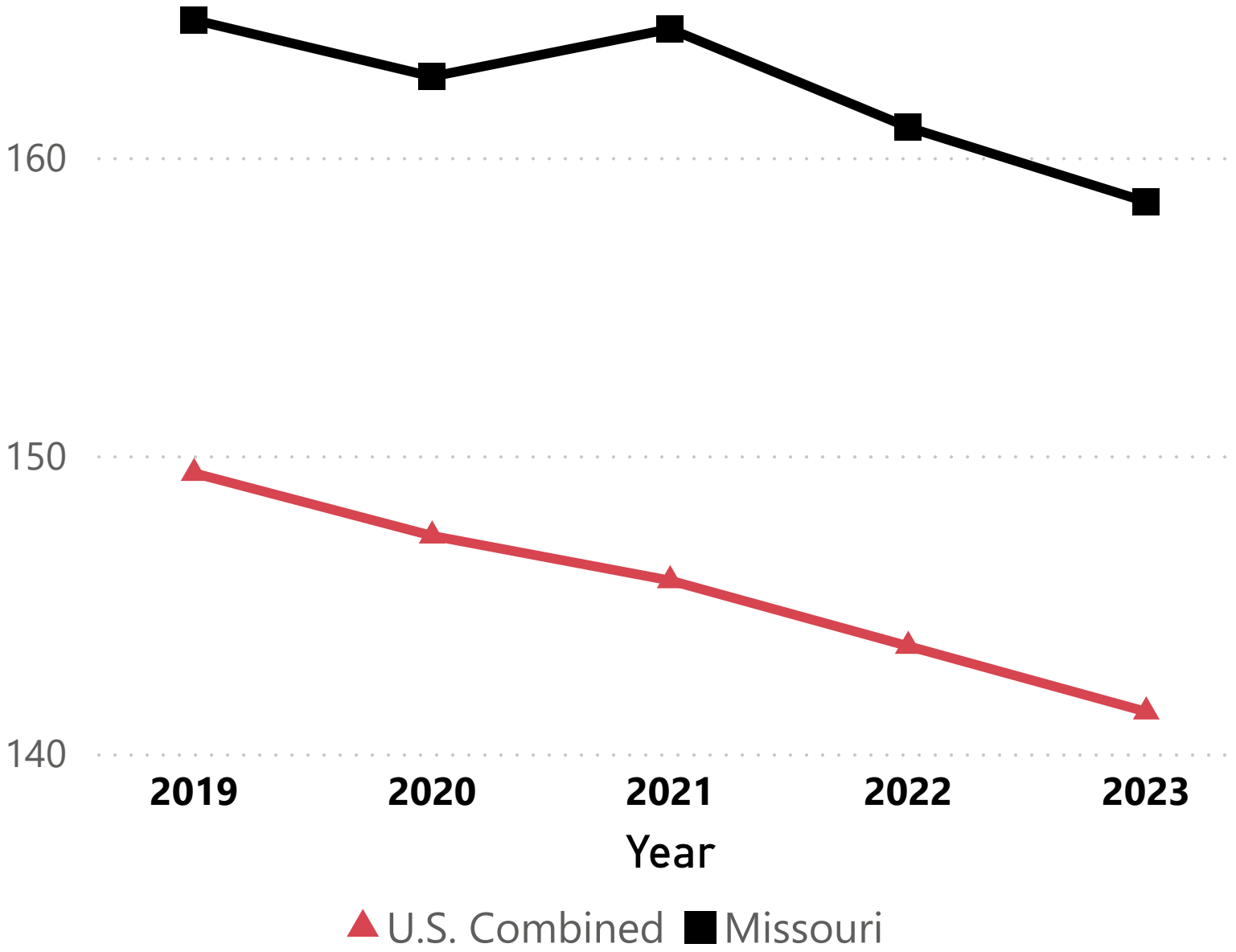
5 Year Changes- Mortality in Missouri 2019-2023



In Missouri, the 5 year change-mortality rates were **considerably low** for **Lung and bronchus, Ovarian, Non-Hodgkin lymphoma, Melanoma of skin , Stomach and Leukemia** whereas it was **considerably high** for **Colon and Rectum, Prostate, Oral cavity and Pharynx, Uterus, and Liver and Bile duct**

Source - State Cancer Profile

Age-adjusted Mortality rate US vs Missouri 2020-2024

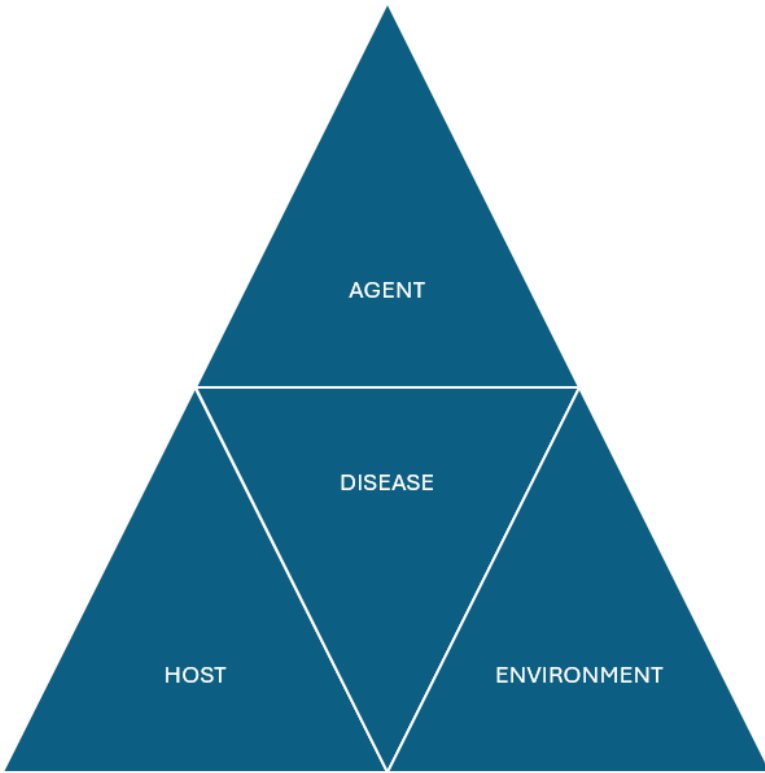


The line graph above compares the mortality rates in Missouri and the US from 2020 to 2024. Throughout these years, Missouri consistently exhibited **higher mortality rates** compared to the national average.

Source - CiNA Statistics

EPIDEMIOLOGICAL TRIAD and TYPES OF PREVENTION

Figure 1. Epidemiological triad of disease (Source:Cancer Registry Management)



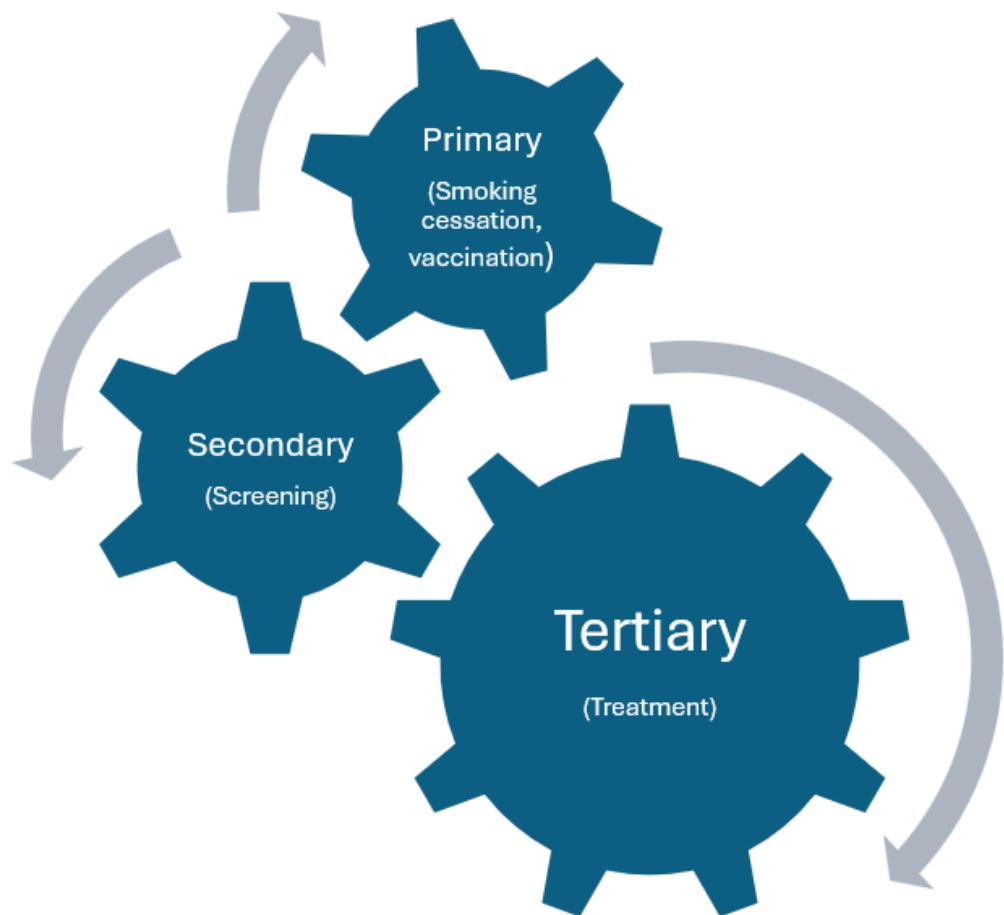
Epidemiological triad of disease is a model of disease causation.

It has **three** basic elements:

- 1. **The agent** (the actual biological cause of disease)
- 2. **The host** (a person who is at risk for the disease)
- 3. **The environment** (the place where the agent and the host encounter one another)

Source: Cancer registry Management, Fourth Edition 2021

Figure 2. Types of Prevention (Source:Cancer Registry Management)



There are **three** types of Prevention:

- 1. **Primary prevention:** Before the biological onset of disease and includes lifestyle and behavior modification, such as smoking cessation or vaccinations, as well as occupational and environmental regulations to prevent hazardous exposures.
- 2. **Secondary prevention:** Begins after the possible biological onset of disease but before symptoms of the disease present such as screening.
- 3. **Tertiary prevention:** Begins after a disease is diagnosed and includes methods for preventing the disease from becoming more severe, such as treatment , and screening for complications.

Source: Cancer registry Management, Fourth Edition 2021

PRIMARY PREVENTION: LIFESTYLE AND CANCER

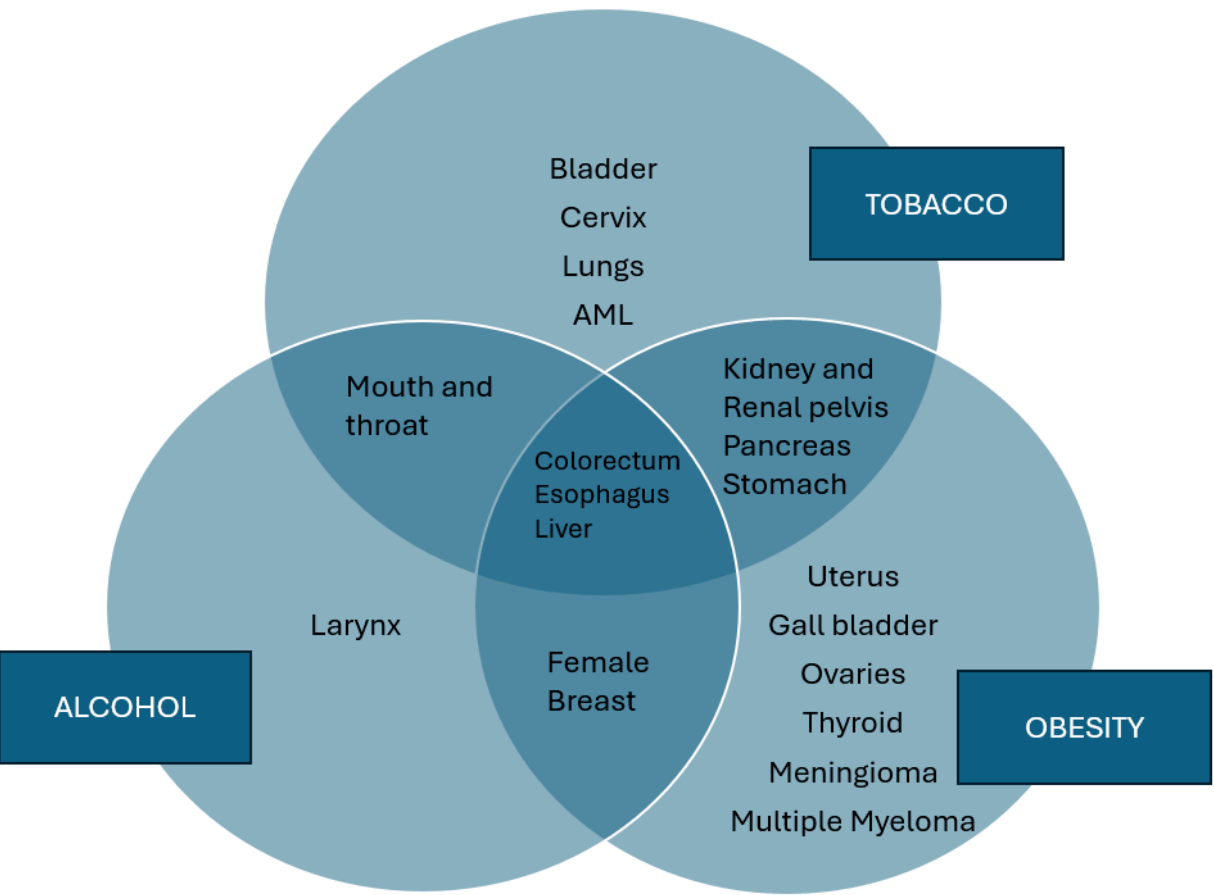
There are certain cancers that are at a risk with certain lifestyle choices. Figure 3. shows the cancers linked with its risk factors (source CDC).

Definitions:

- 1. **Binge drinking:** This indicator reports the estimated number and percentage of adults aged ≥ 18 who reported having more than 5 drinks for male or more than 4 for female in one occasion.
- 2. **Heavy drinking:** This indicator reports the estimated number and percentage of adults aged ≥ 18 who reported having per week more than 14 drinks for men or more than 7 drinks for women.
- 3. **Current cigarette smoking:** This indicator reports the estimated number and percentage of adults aged ≥ 18 who reported smoking .
- 4. **Cigarette Quit attempt past year:** This indicator reports the estimated number and percentage of adults aged ≥ 18 who reported smoking and attempted to quit in the past year.
- 5. **No leisure time physical activity:** This indicator reports the estimated number and percentage of adults aged ≥ 18 who reported not having physical activity in the past 30 days .

According to **Behavioral Risk Factor Surveillance System (BRFSS) 2024 data**, in the **United States**, the **age-adjusted prevalence** among **adults aged 18+ years** who reported **ever smoking 100 cigarettes** was **34.4%** , who reported **binge drinking** was **14.7%**, who reported **no leisure time physical activity in past 30 days** was **21.8%**.

Figure 3. Cancers associated with risk factors (Source CDC)



Age-Adjusted % in Missouri

(Source: USCS Data Visualization)

Binge Alcohol
17.30

No leisure time physical activity
23.20

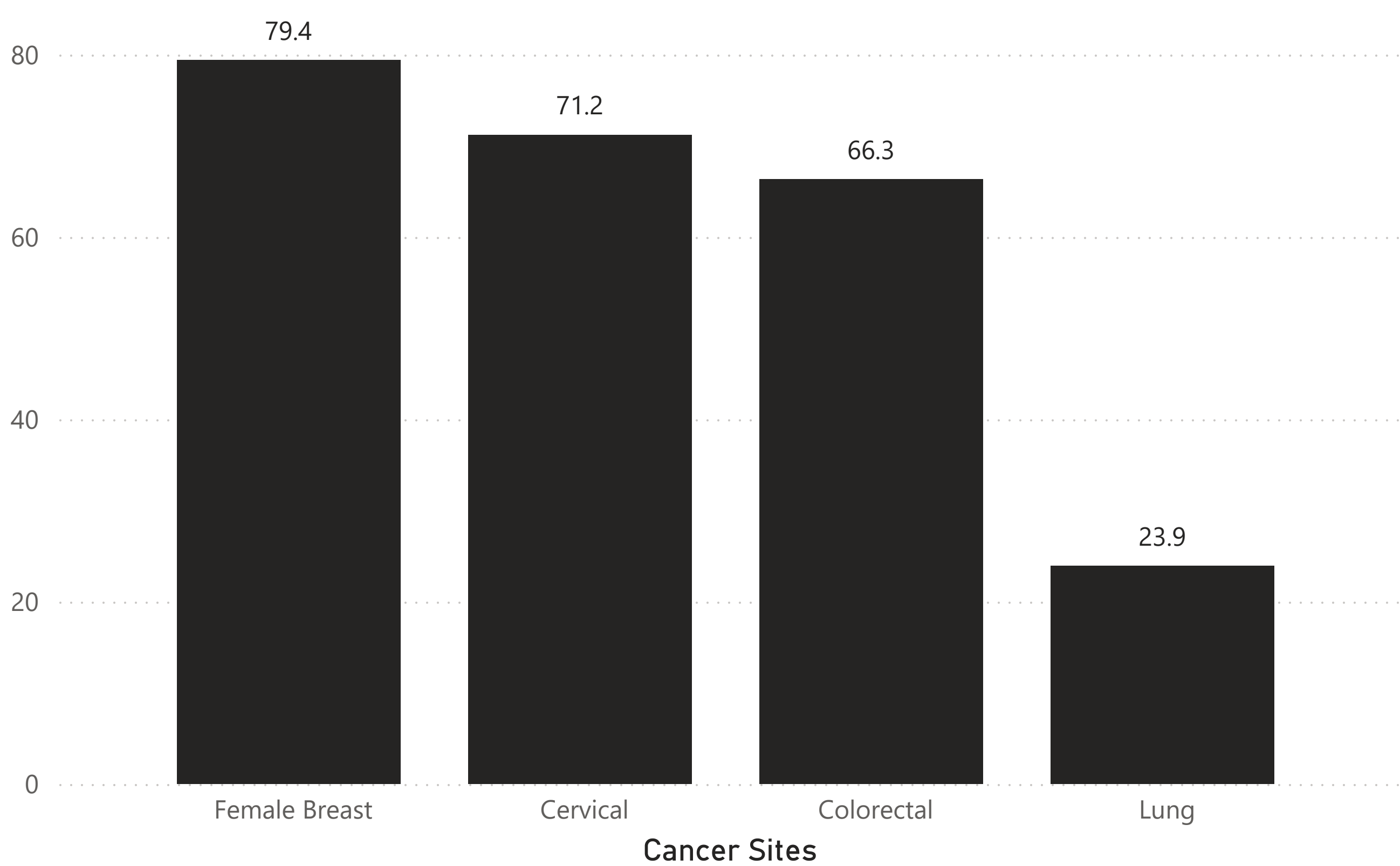
Current Smoker
15.10

Ever Smoked
41.10

SECONDARY PREVENTION: SCREENING RATES IN MISSOURI

Screening-amenable cancers are cancers that can be effectively treated and prevented with early detection and screening. These include cancers such as breast, prostate, cervical, colorectal and lung cancer. Screening for these cancers can help to detect the disease at an early stage, when it is more likely to be treatable, and can also help to identify individuals at high risk of developing cancer.

SCREENING RATE (AGE-ADJUSTED) - Based on BRFSS 2024 data



- The Missouri Cancer Registry also plays a critical role in monitoring the rates of screening for amenable cancers in the state.
- The registry collects data on cancer cases in Missouri, including information on patient demographics, cancer site, stage at diagnosis, and treatment.
- This data is then used to inform public health practice and policy, as well as to support research on cancer trends, risk factors, and outcomes.
- By understanding the rates of screening for amenable cancers in Missouri, public health officials, researchers, healthcare providers, and policymakers can develop strategies to increase the rate of screening for these cancers and improve outcomes for cancer patients.

SECONDARY PREVENTION: SCREENING RATES IN MISSOURI

Missouri has implemented several programs and initiatives to increase the rate of screening for amenable cancers, including

1. Missouri Breast and Cervical Cancer Program (MBCCP): which provides breast and cervical cancer screenings to uninsured and underserved women in the state.
2. Missouri Colorectal Cancer Control Program (MO CRCCP) provides colorectal cancer screenings and follow-up care to uninsured and underserved individuals in the state.

According to the screening information from USCS Data Visualization

66.3%

of total Missouri population were between age 45-75 years were screened for **Colorectal cancer** based on USPSTF recommendations according to BRFSS 2024

79.4%

of total women aged 50-74 years had mammogram in the past 2 years as a method of **Female Breast cancer** screening according to BRFSS 2024

71.2%

of the total women with age between 21-65 years had a PAP (Papanicolaou) test in the past 3 years as a method for **Cervical cancer** screening, according to BRFSS 2024

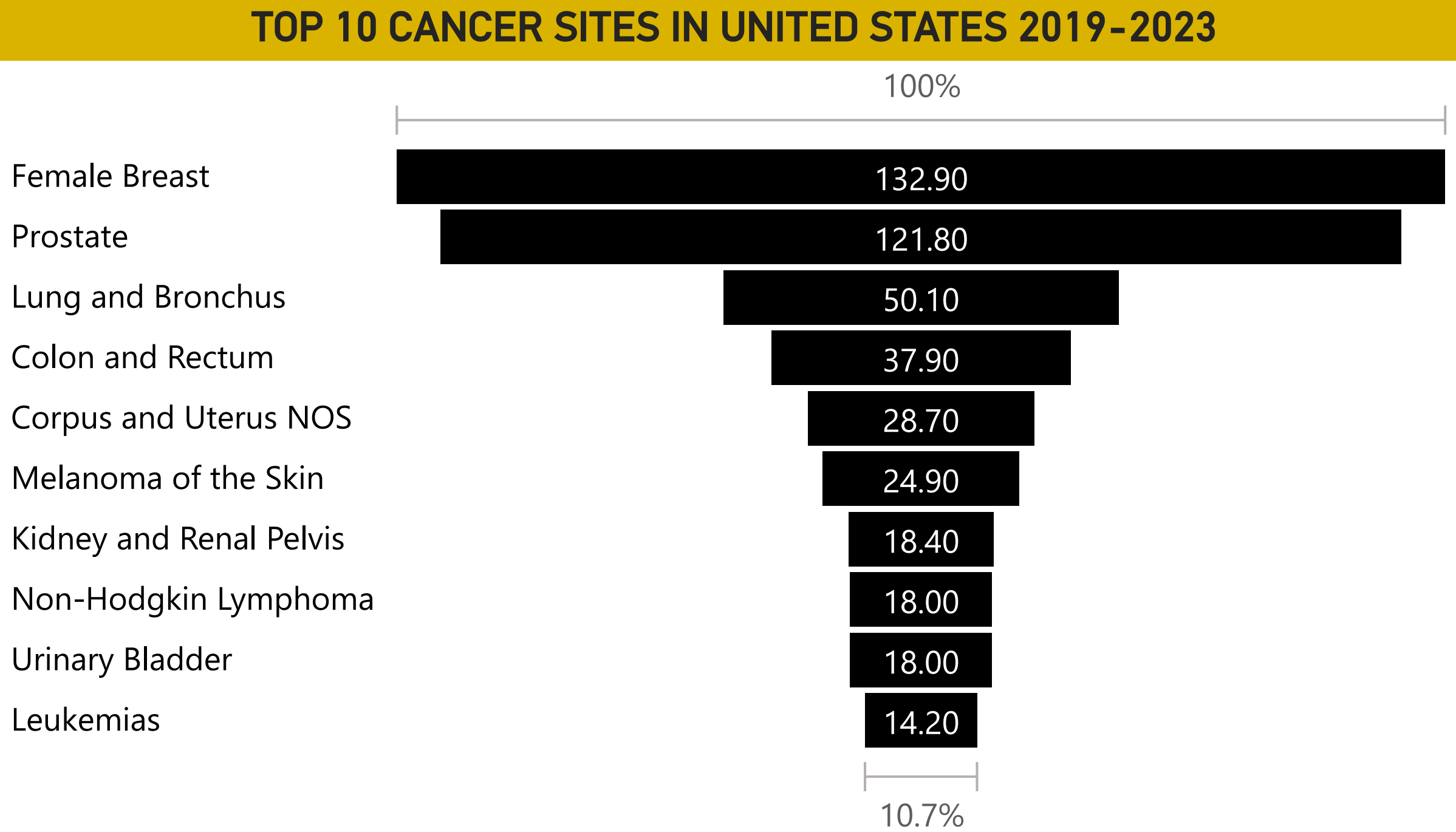
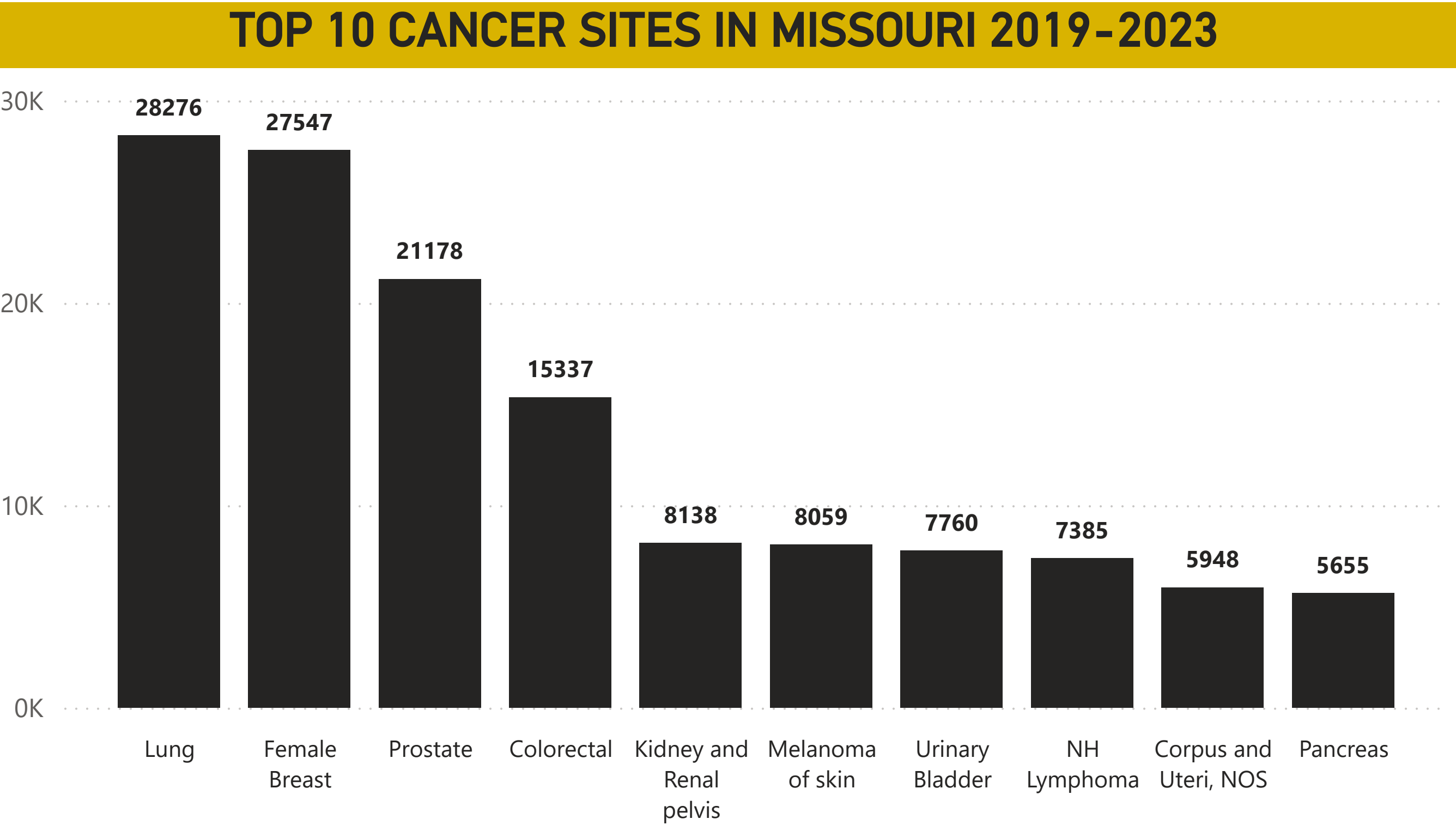
TOP 10 CANCER SITES IN MISSOURI

The bar graph below details the Top 10 cancer sites in Missouri. Lung, Prostate, Female breast, and Colorectal matches with the Top 10 cancer sites in U.S.

Cancer of Kidney and Renal Pelvis contributes in Top 5 cancer sites in Missouri but it is not present in Top 10 cancer sites in US.

Leukemias are prevalent in US but does not contribute to Top 10 sites in Missouri.

Source: Missouri Cancer Registry data



The funnel diagram above illustrates the incidence rate of top 10 cancer sites in the United States, ranked in decreasing order of prevalence.

Female-centric cancers such as Female breast cancer, and Corpus and Uteri, NOS are most common cancers among females , whereas male-centric cancer such as Prostate is the most common cancer site among men.

Lung and Bronchus, Colon and Rectum, and Melanoma of skin ranks within the top five cancer sites in many states.

Source: USCS data visualization

LUNG CANCER IN MISSOURI

Incidence rate 2019-2023

28276

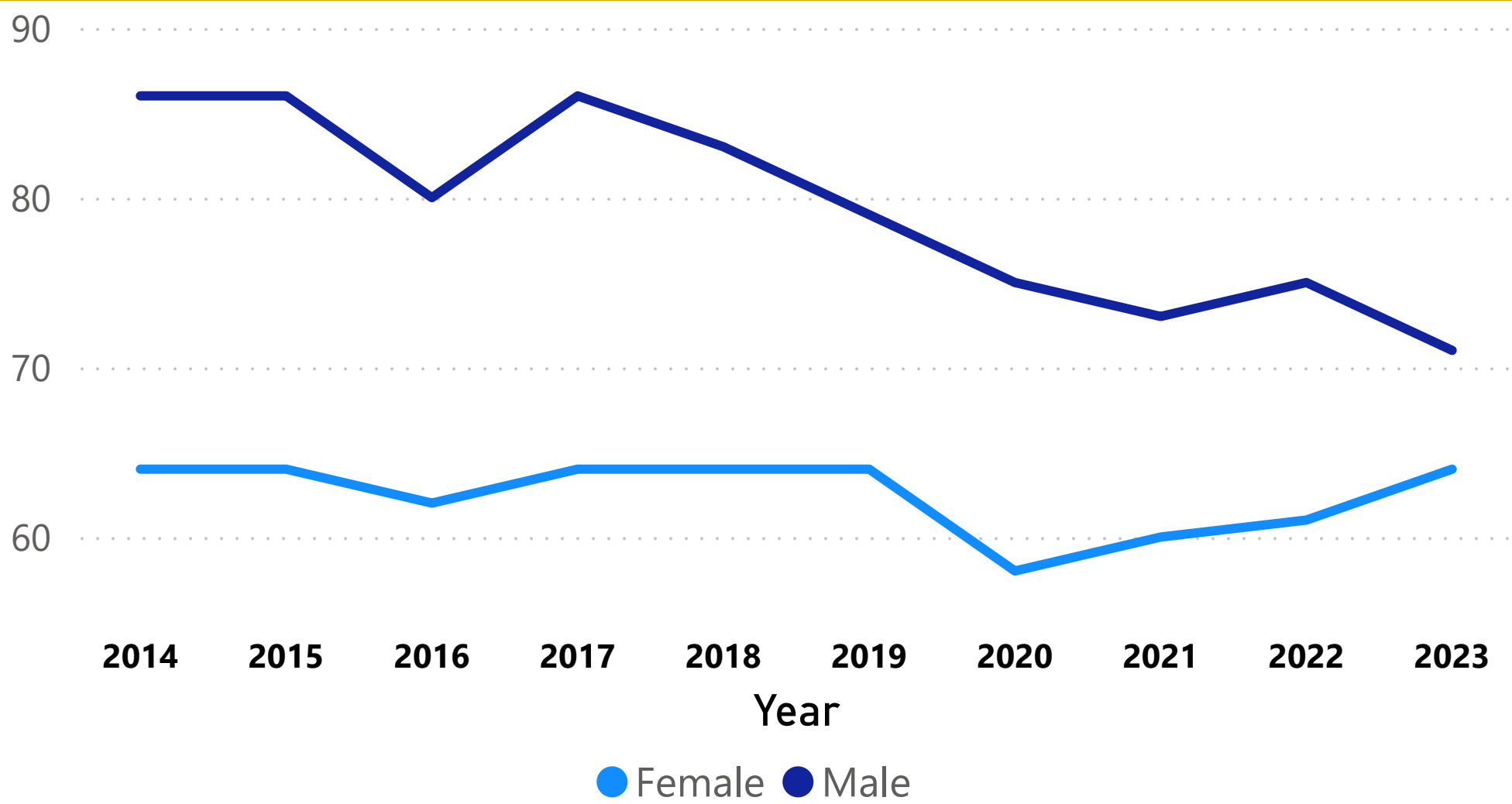
lung cancer survivors
2019-2023

9390

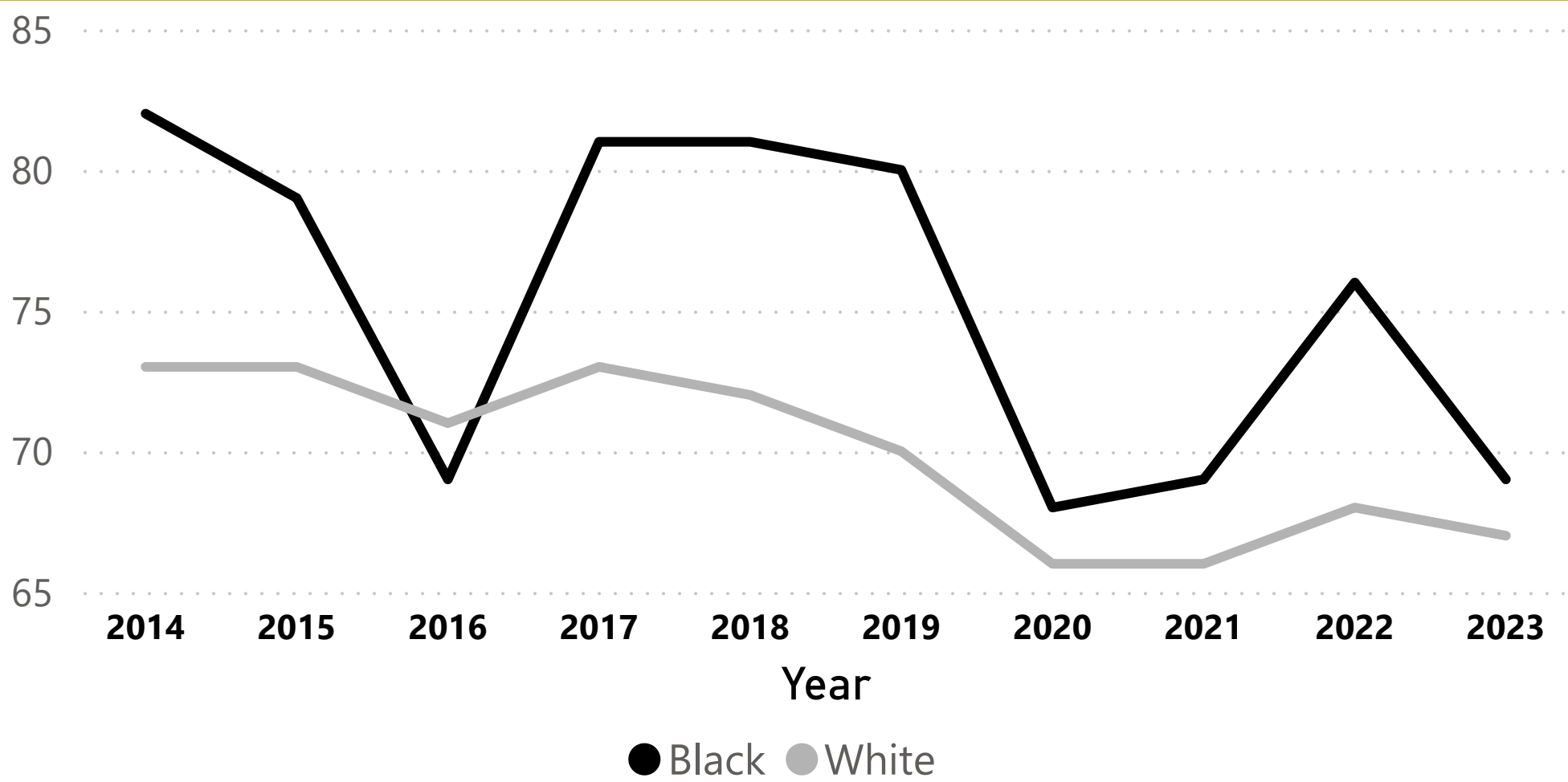
Ranked in the death rate
in the US

7

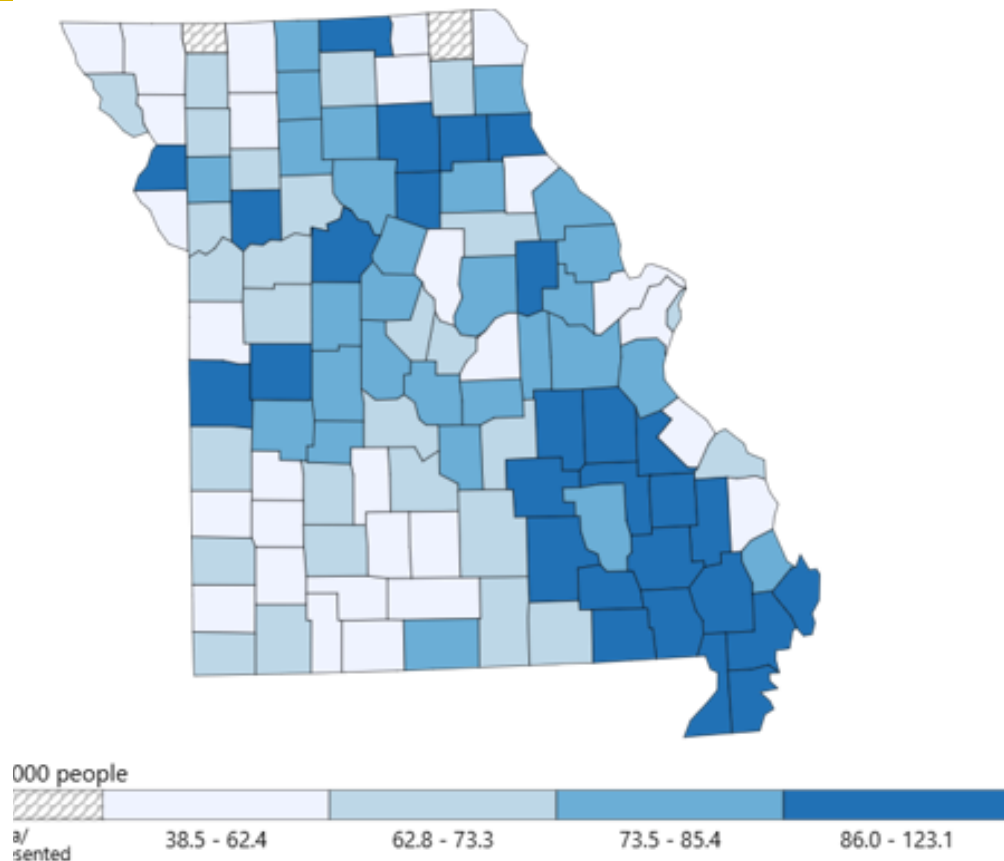
10 year Age-adjusted Incidence rate in Missouri By Sex



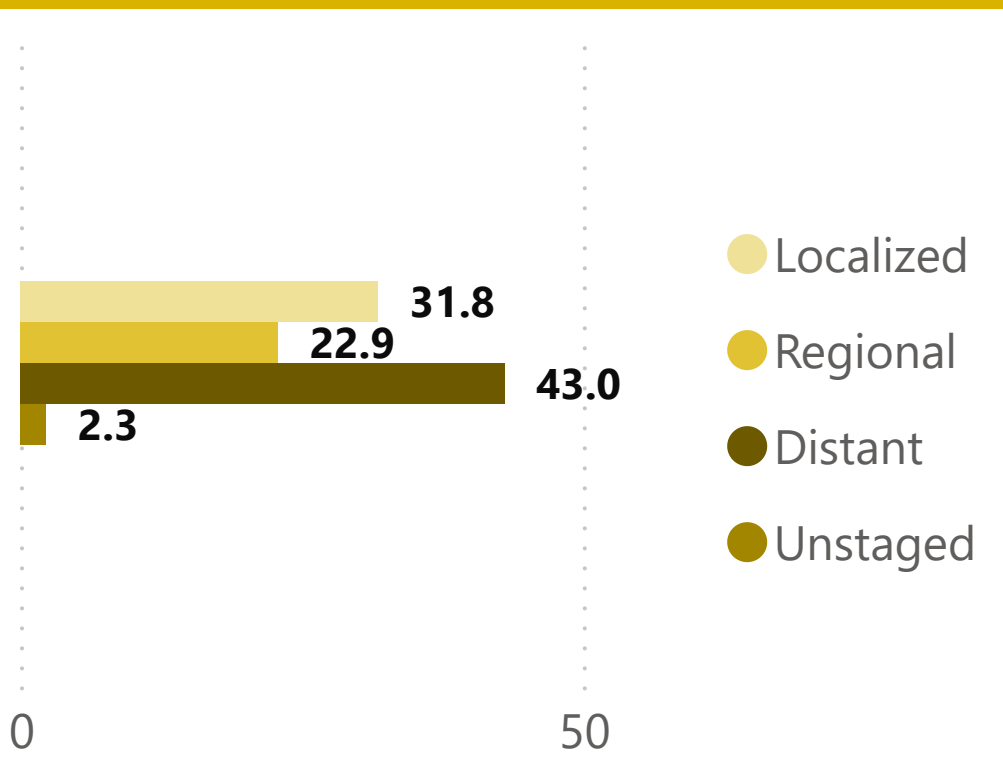
10 year Age-adjusted Incidence rate in Missouri By Race



Incidence Rate in Missouri County level 2019-2023



%Stage Distribution



Incidence rate 2019-2023



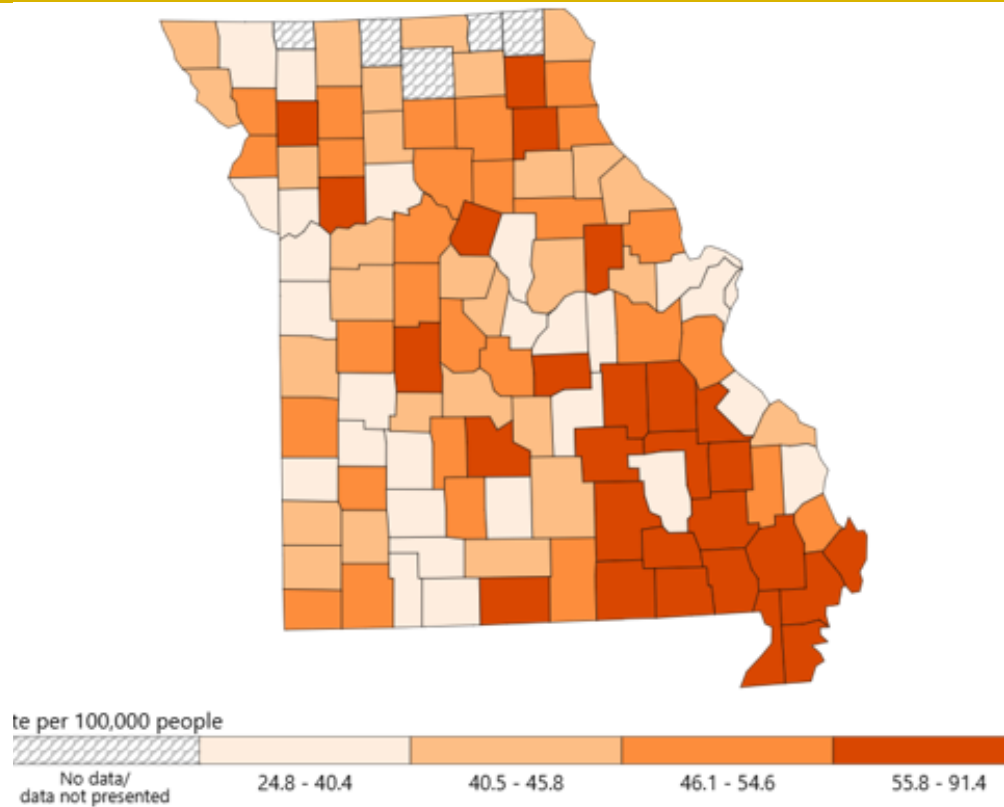
74.80

Incidence rate 2019-2023



61.70

Mortality Rate in Missouri County level 2020 - 2024



OVARIAN CANCER IN MISSOURI

Incidence rate 2019-2023

1750

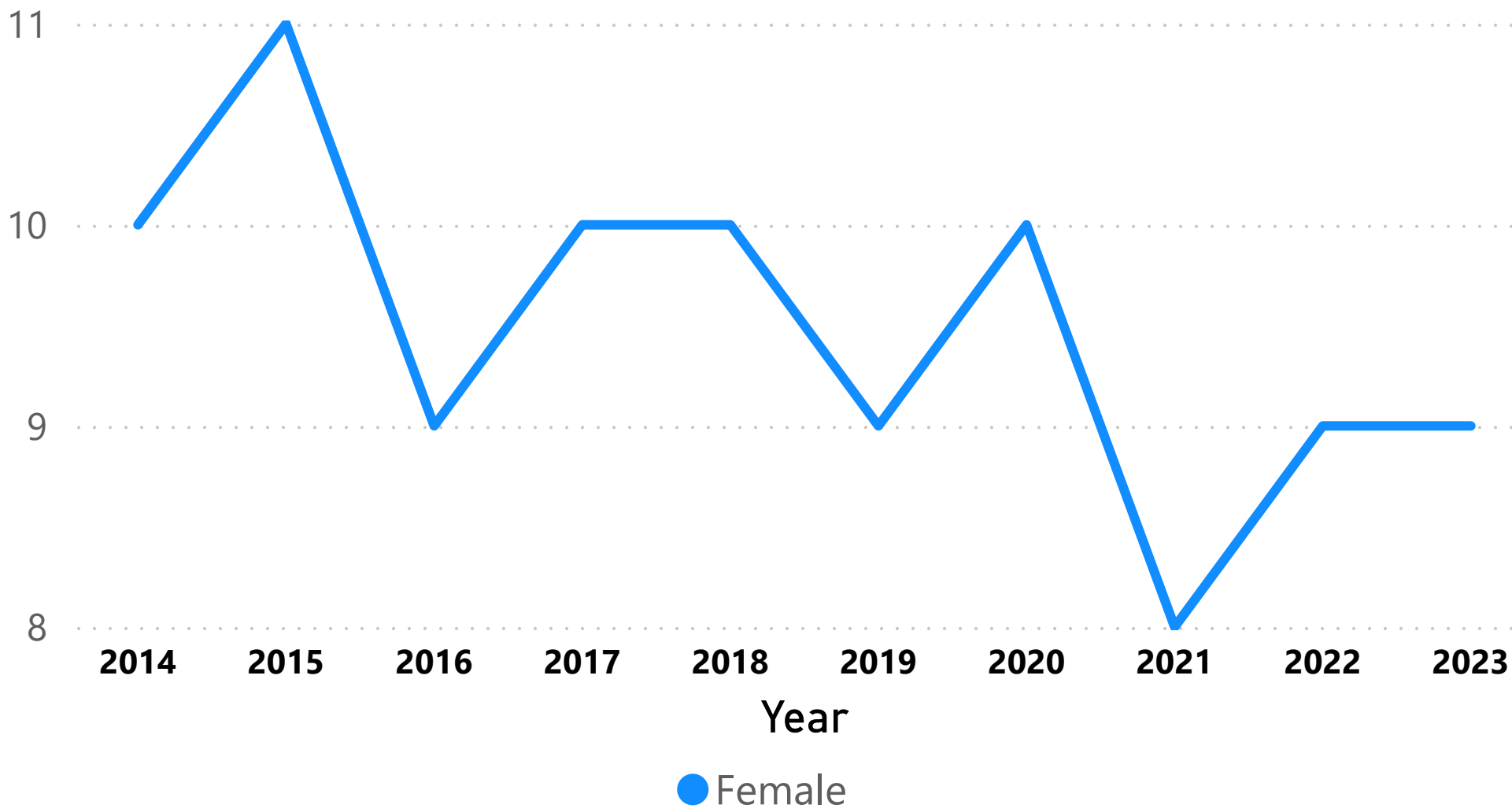
Ovarian cancer survivors 2019-2023

2901

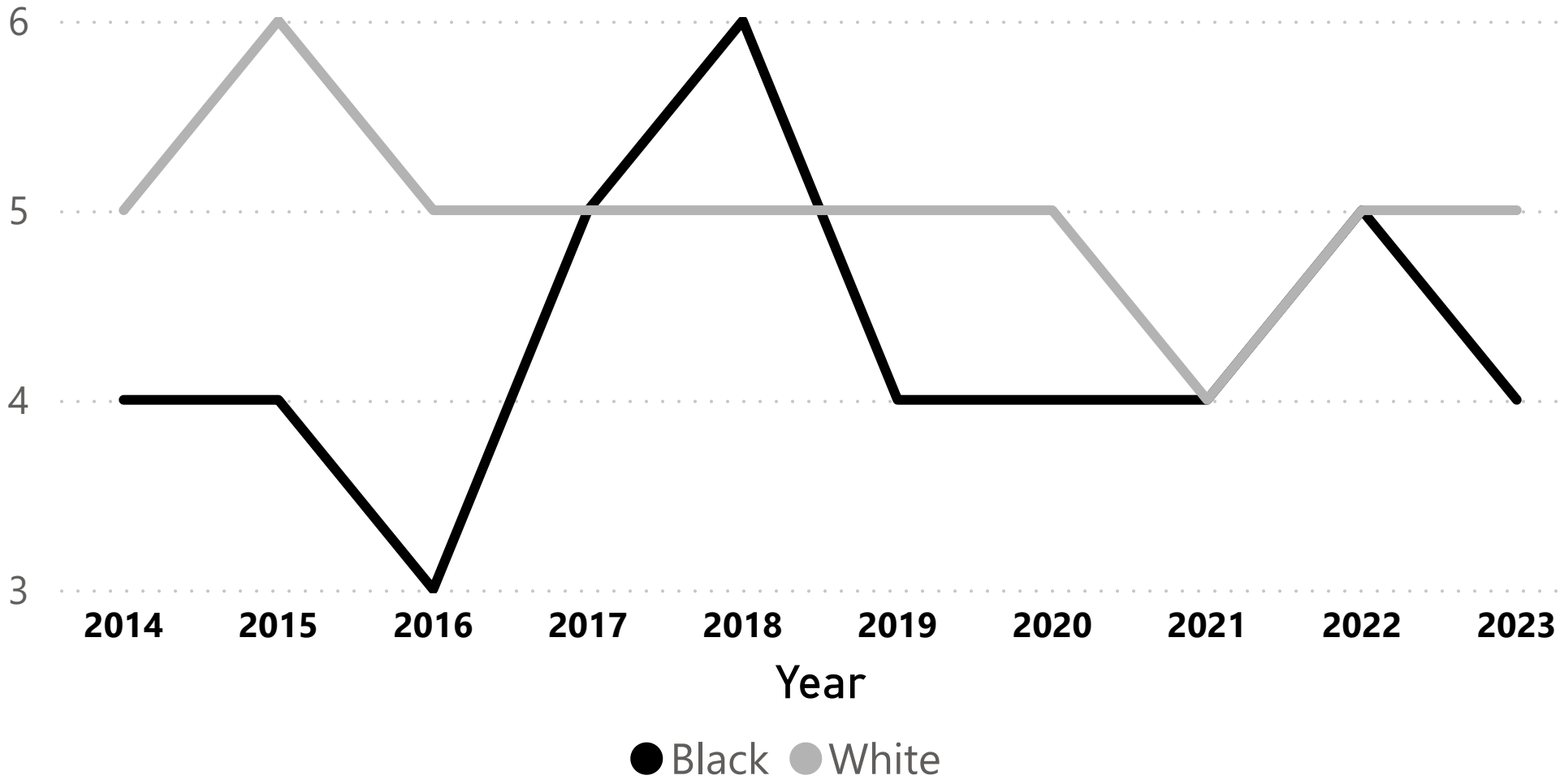
Rank in the death rate in the US

41

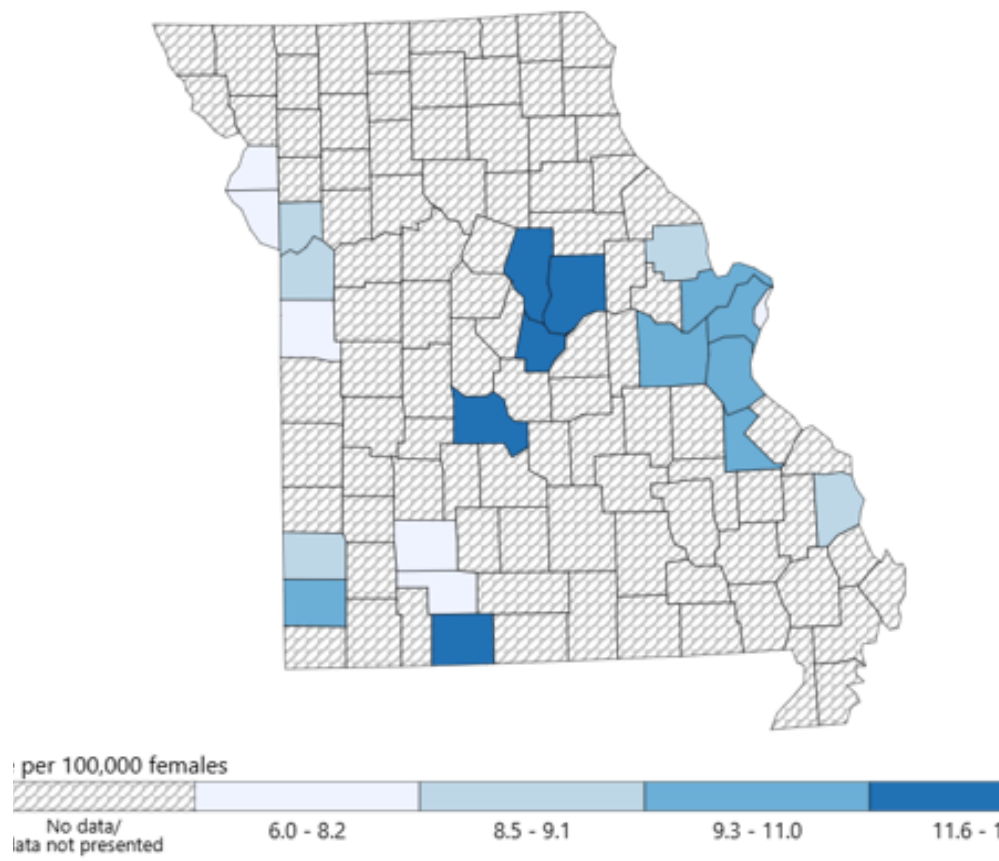
10 year Age-adjusted Incidence rate in Missouri By Sex



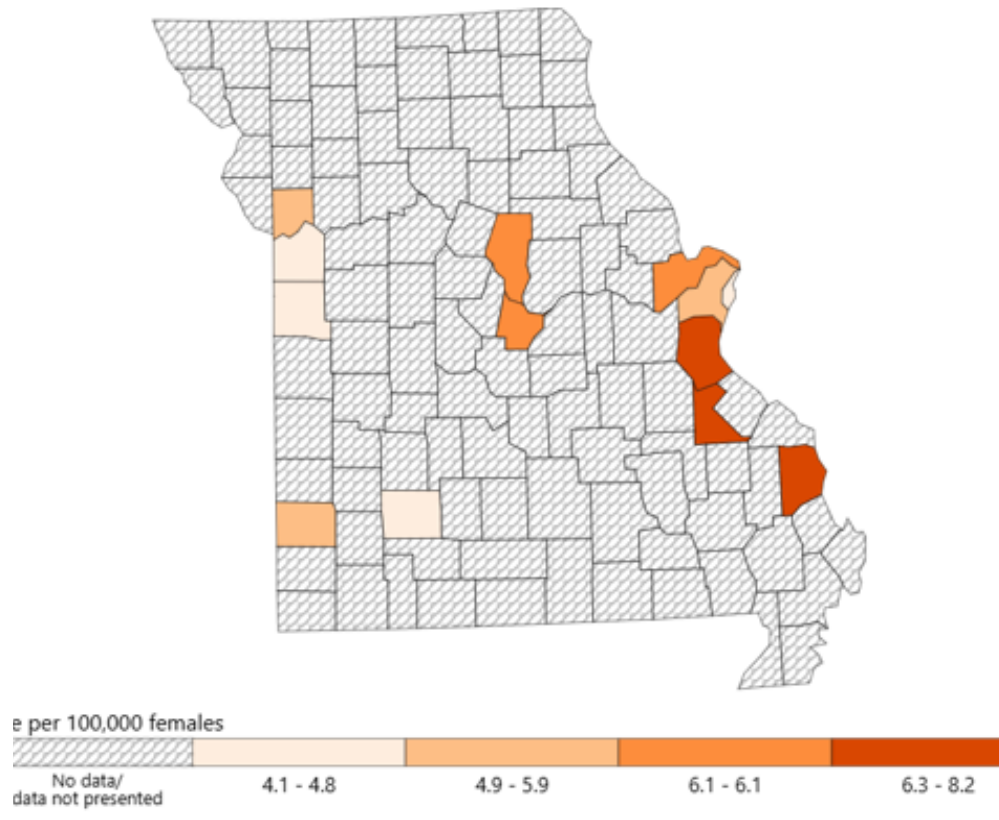
10 year Age-adjusted Incidence rate in Missouri By Race



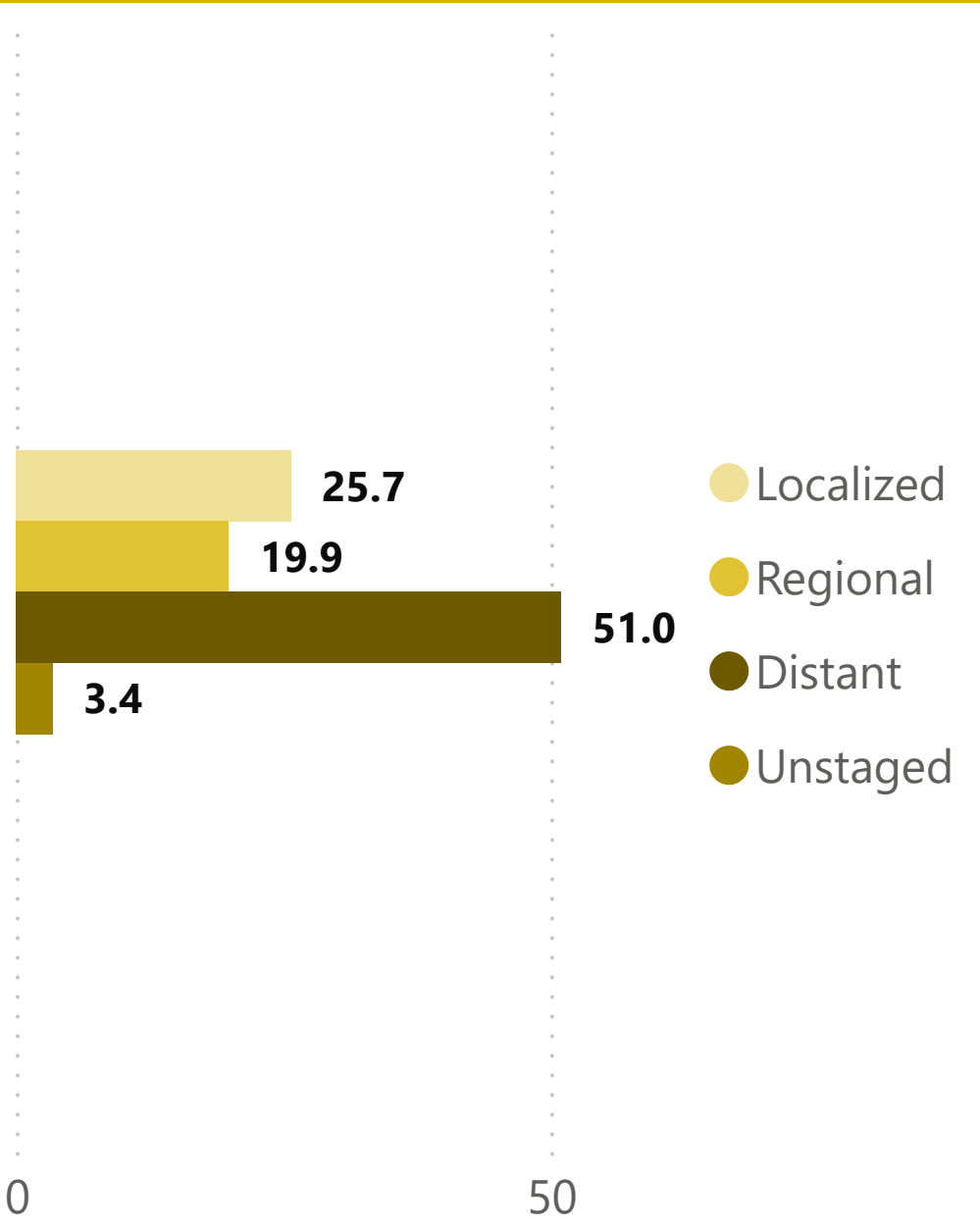
Incidence Rate in Missouri County level 2019-2023



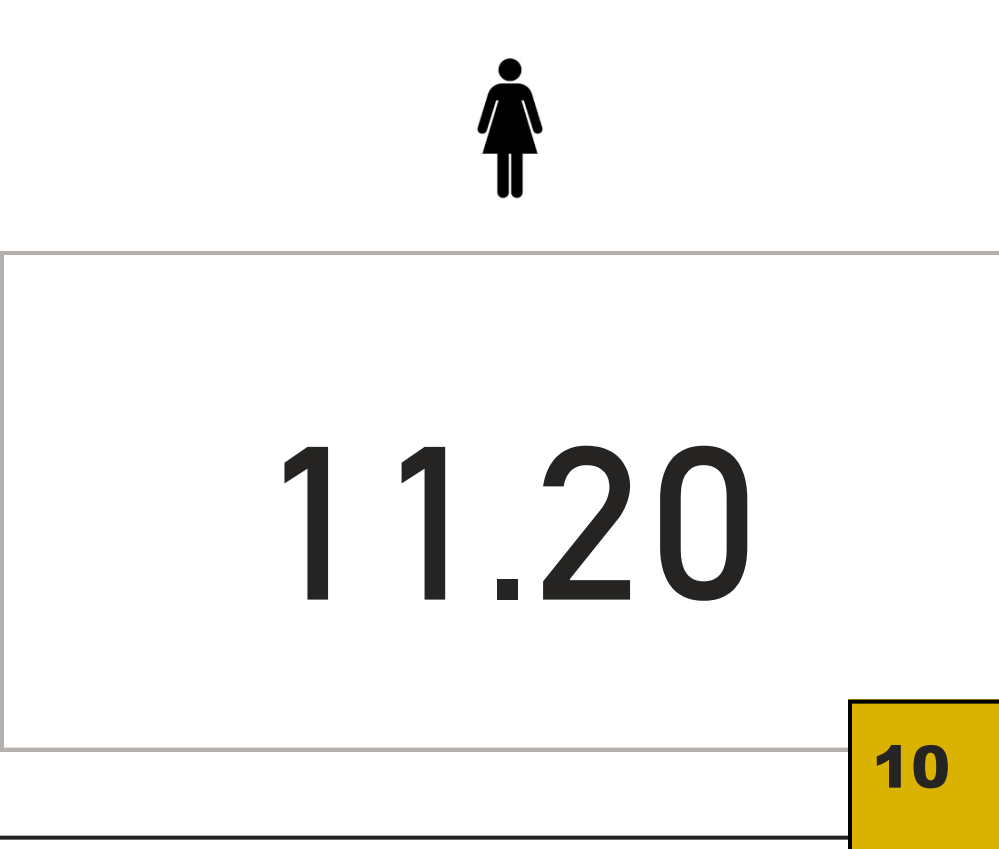
Mortality Rate in Missouri County level 2020 - 2024



%Stage Distribution



Incidence rate 2019-2023



FEMALE BREAST CANCER IN MISSOURI

Incidence rate 2019-2023

27547

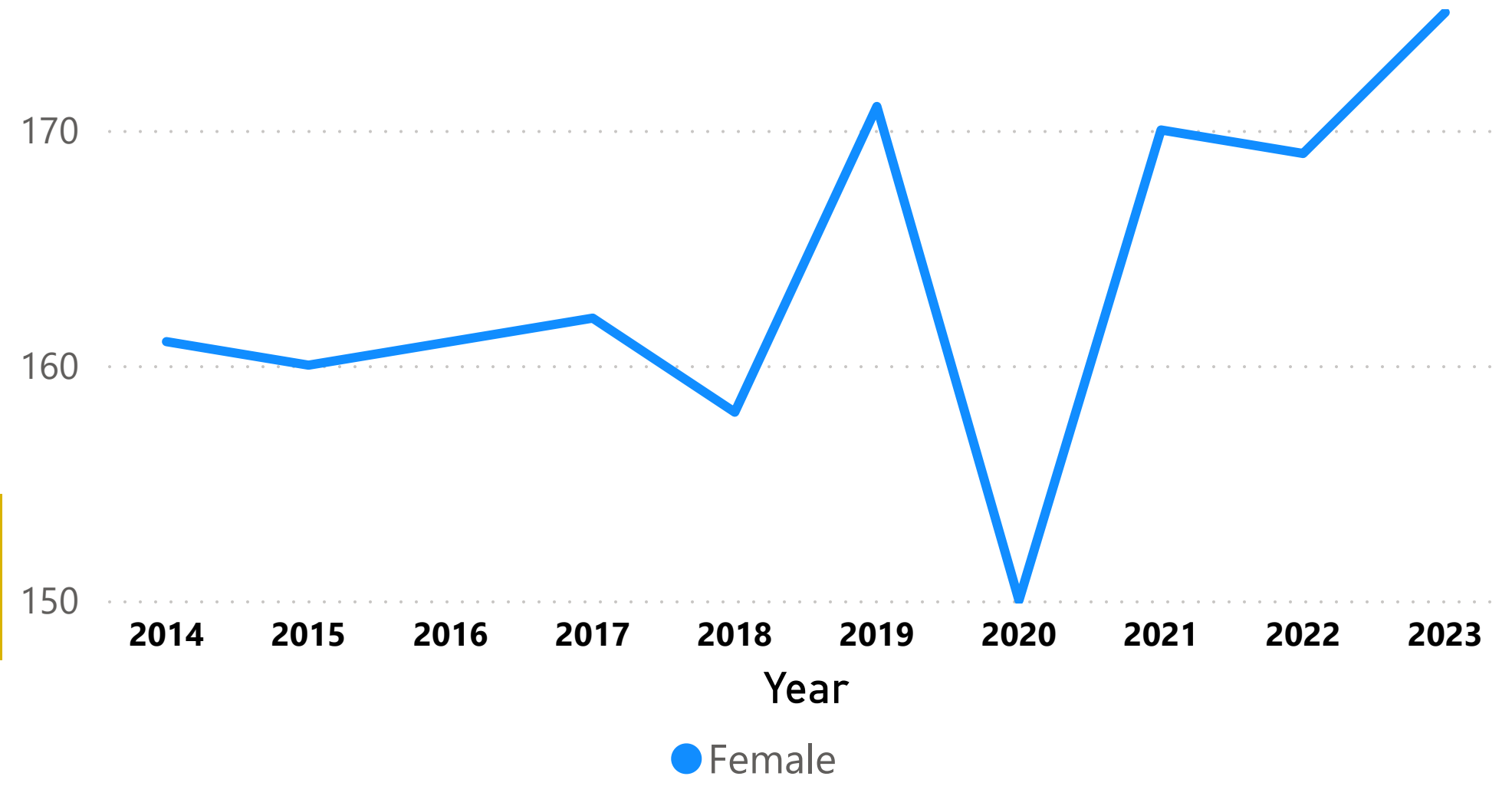
Female Breast cancer survivors 2019-2023

63829

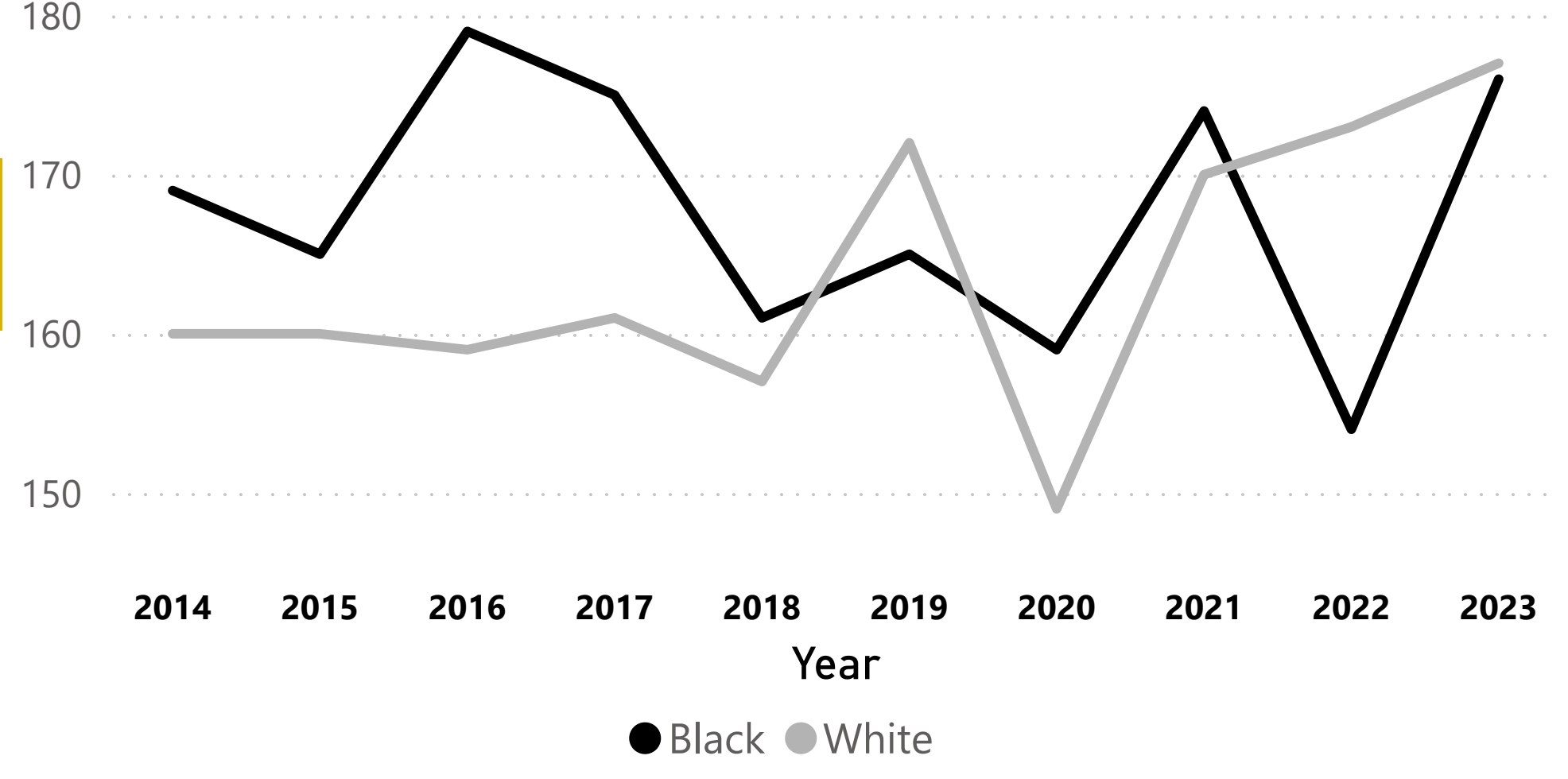
Rank in the death rate in the US

15

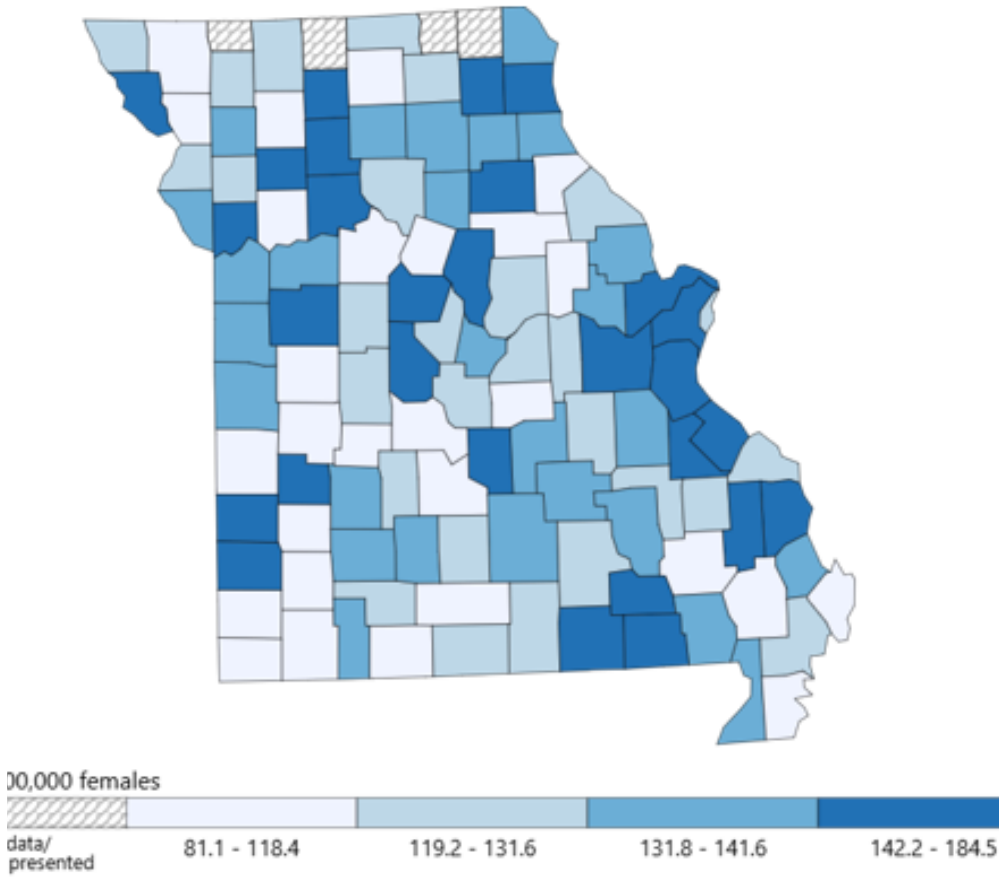
10 year Age-adjusted Incidence rate in Missouri By Sex



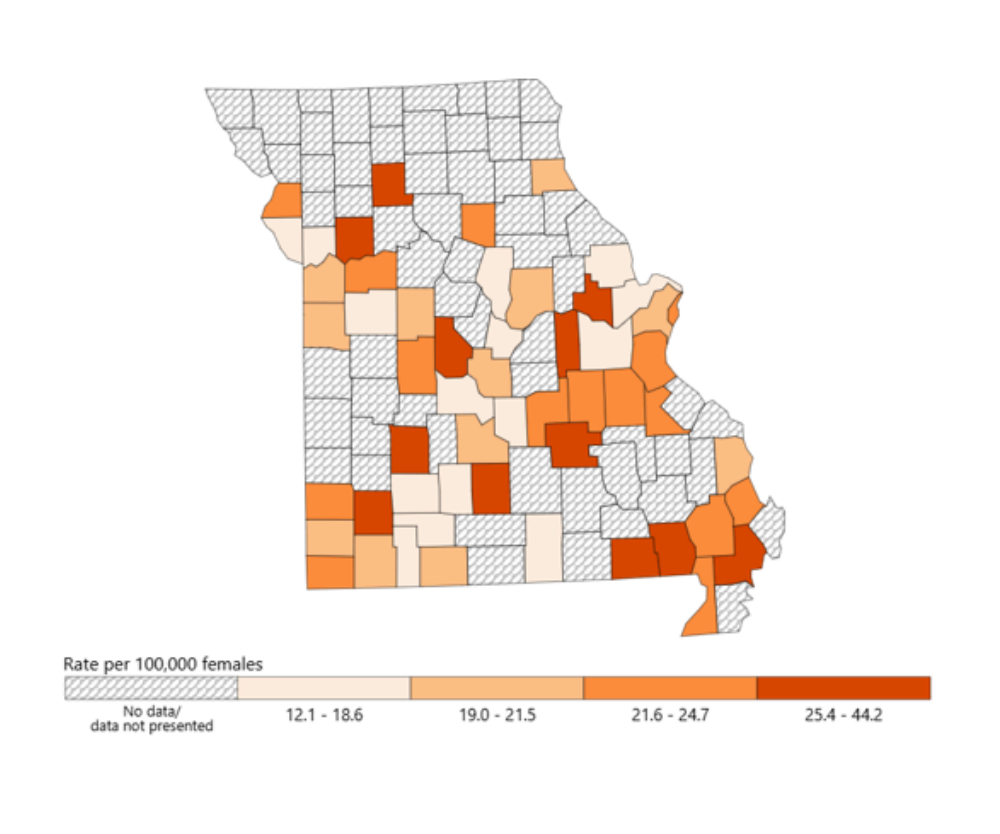
10 year Age-adjusted Incidence rate in Missouri By Race



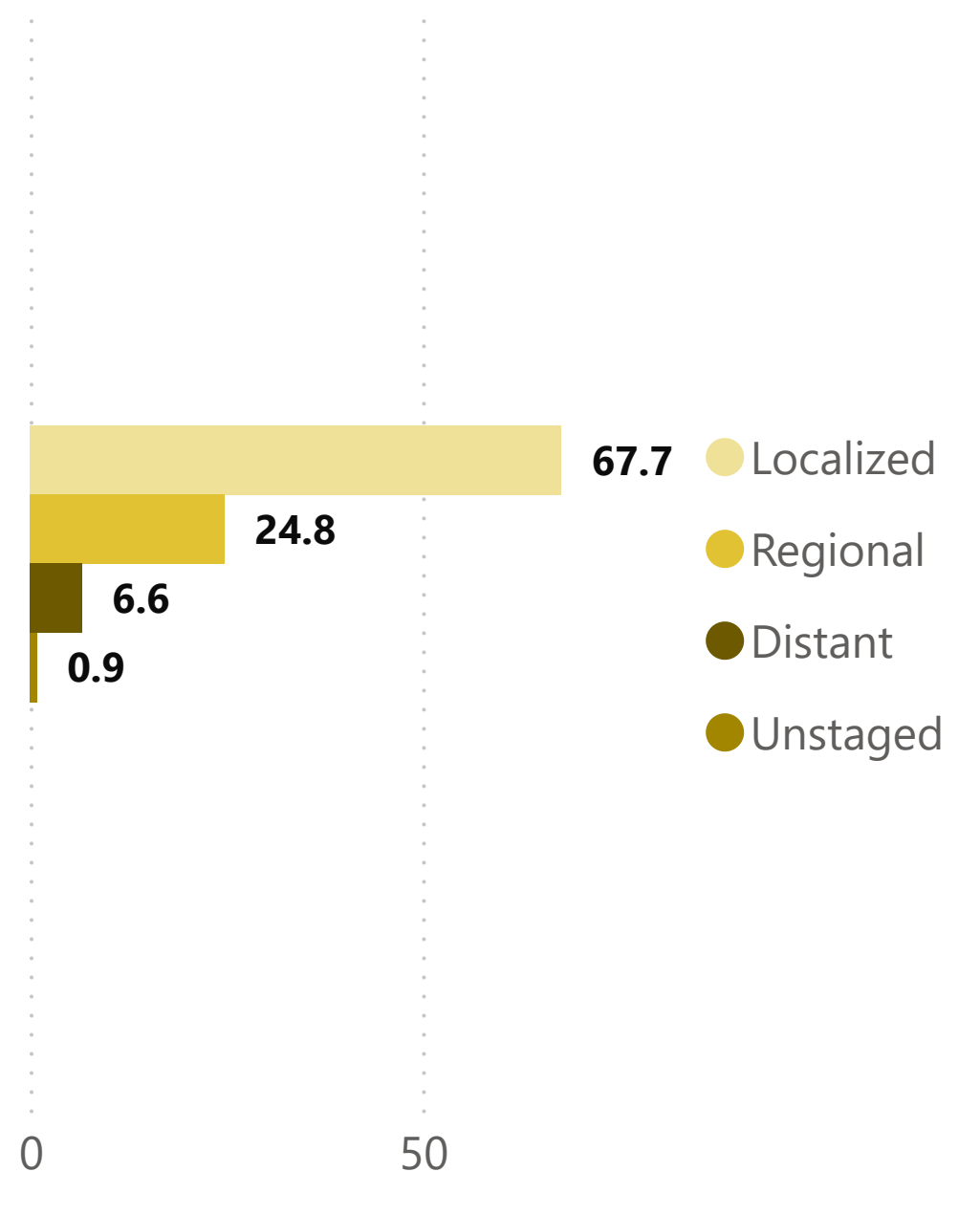
Incidence Rate in Missouri County level 2019-2023



Mortality Rate in Missouri County level 2020 - 2024



%Stage Distribution



Incidence rate 2019-2023

139.40

CORPUS & UTERI,NOS CANCER IN MISSOURI

Incidence rate 2019-2023

5948

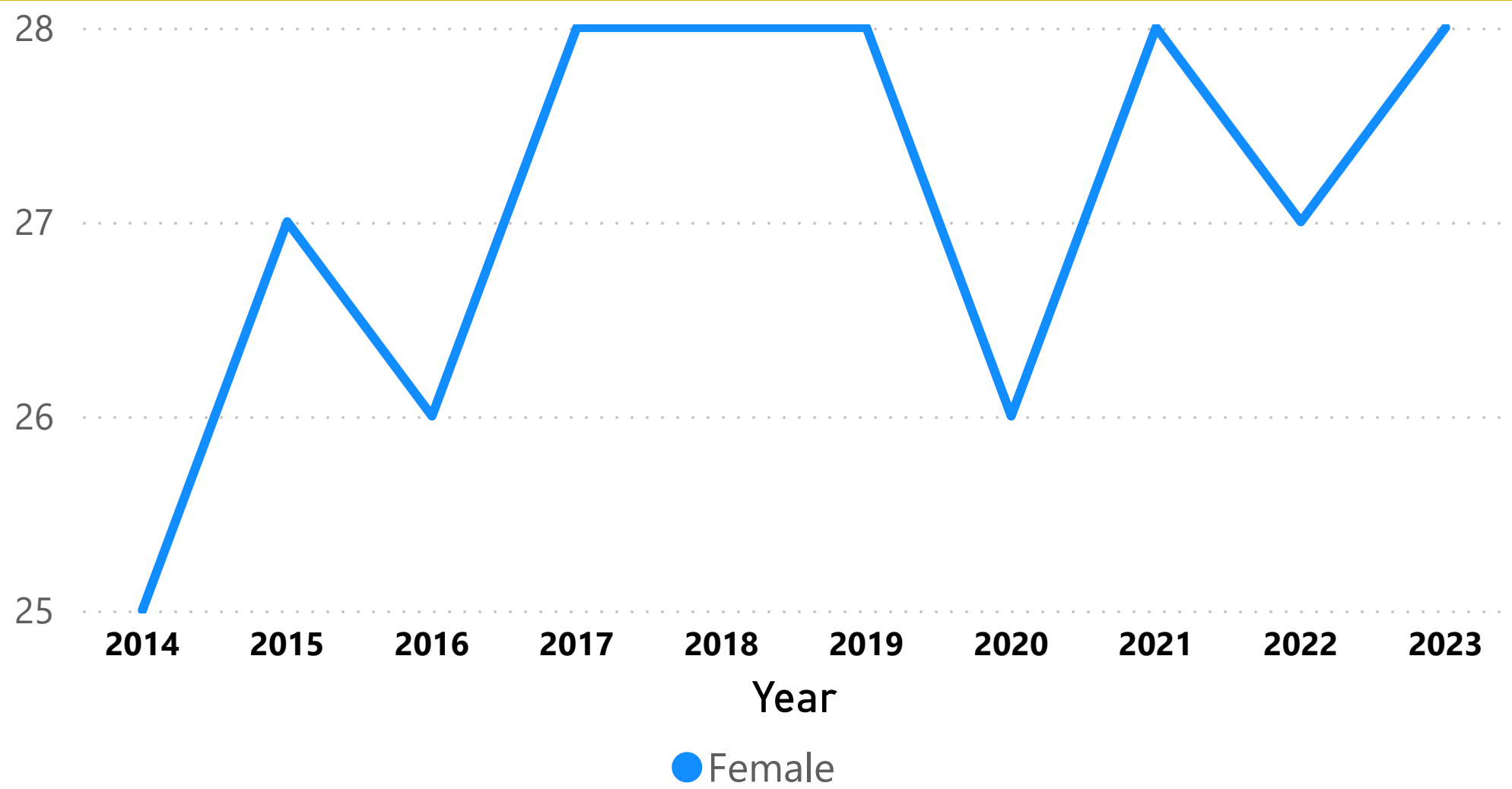
Corpus & Uteri cancer survivors 2019-2023

13542

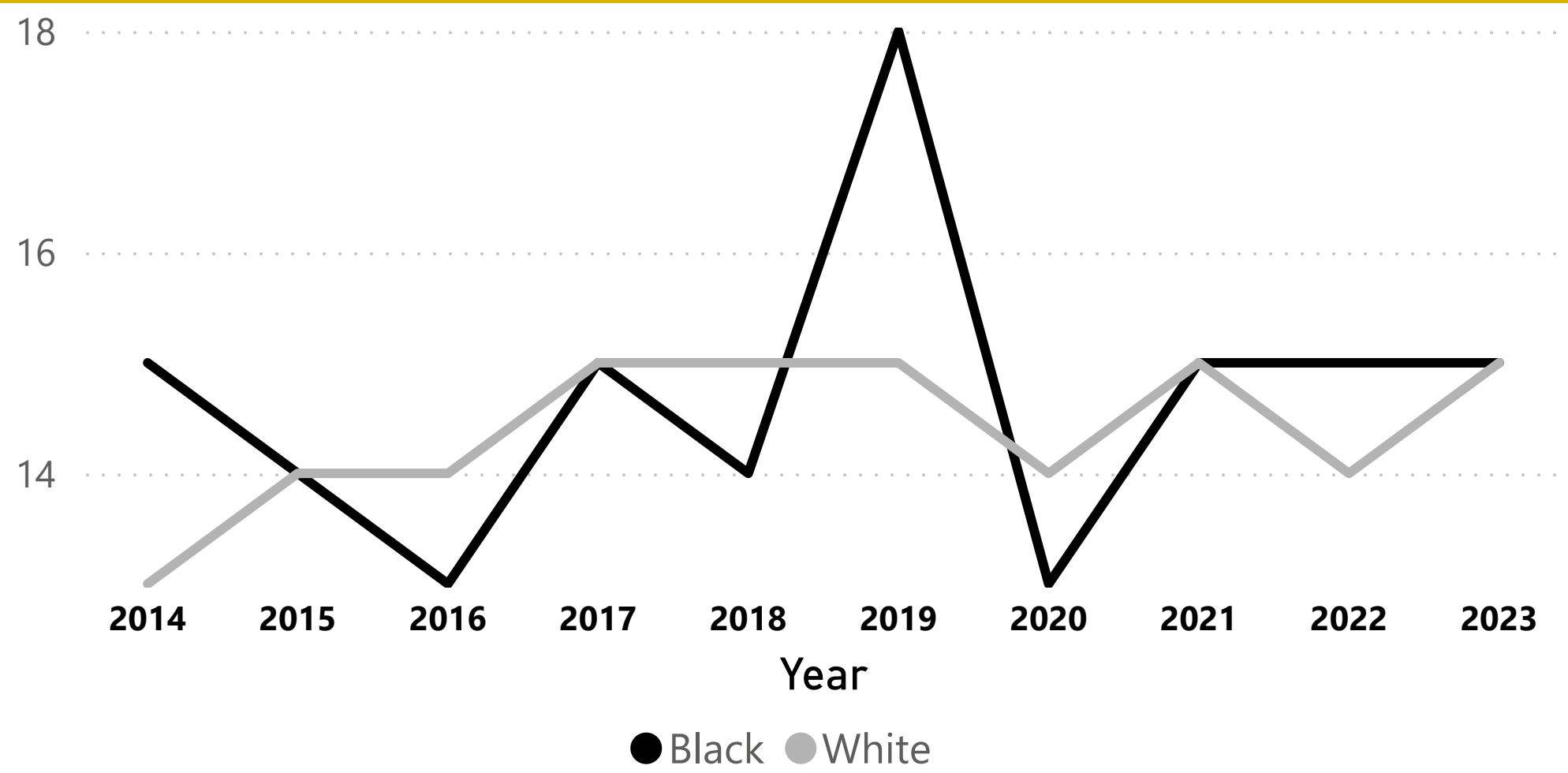
Rank in the death rate in the US

18

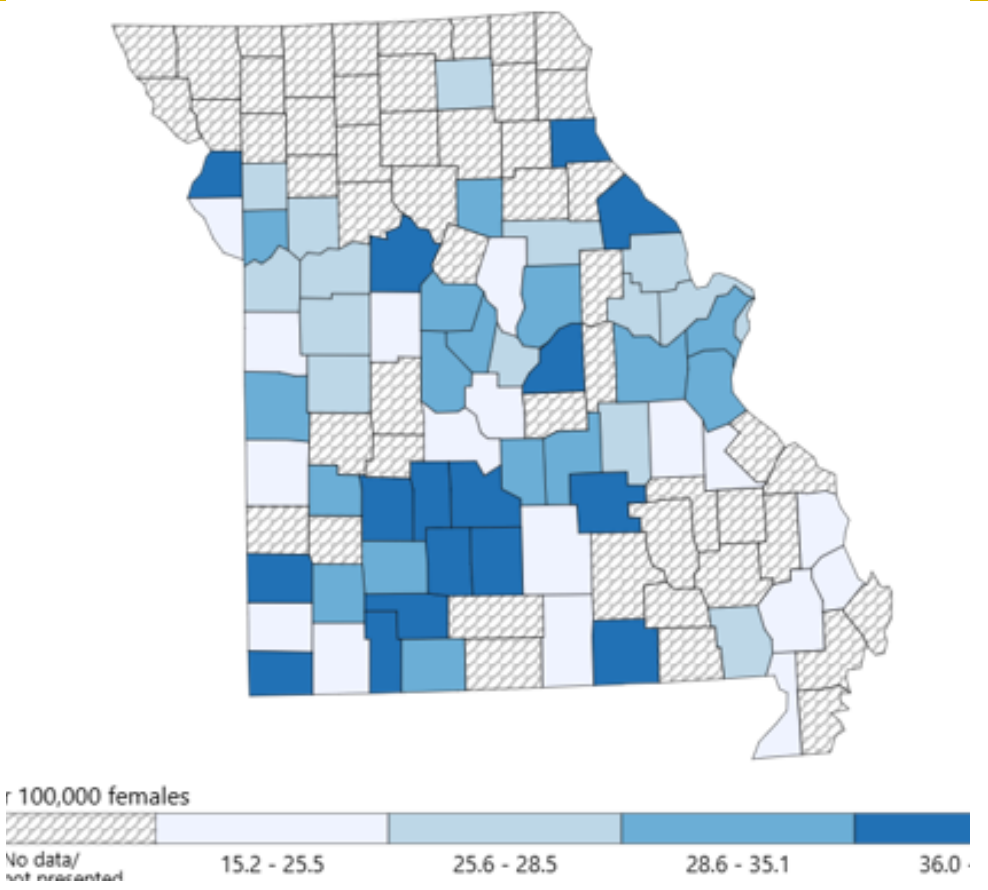
10 year Age-adjusted Incidence rate in Missouri By Sex



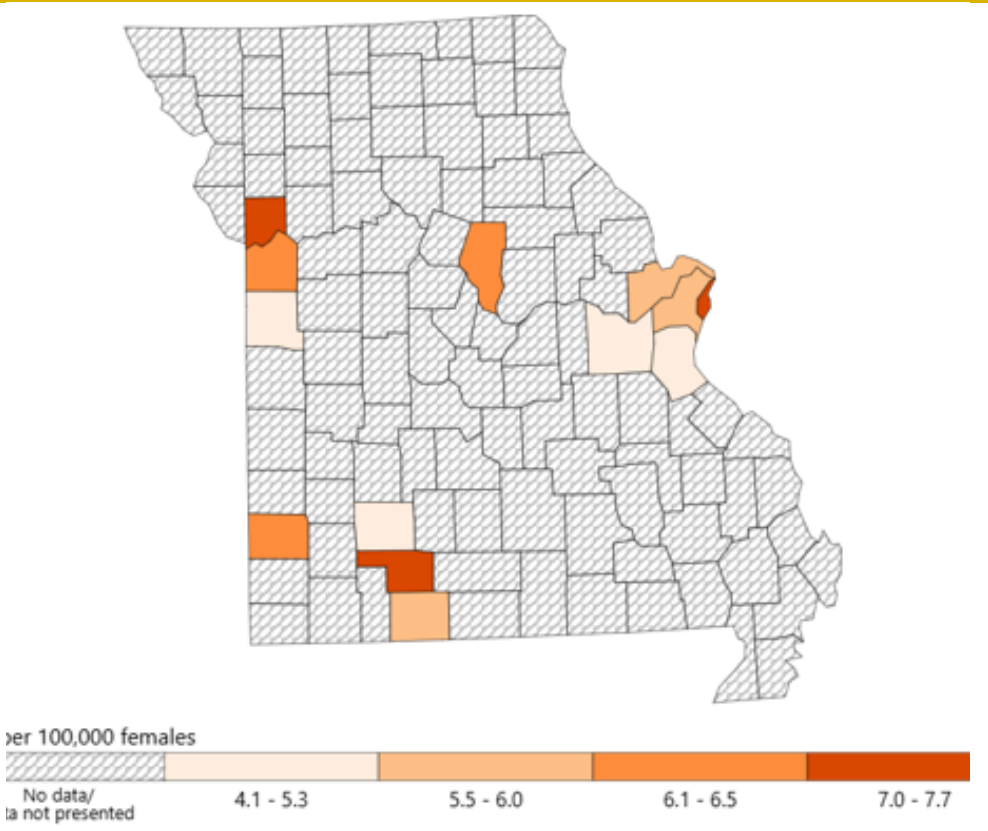
10 year Age-adjusted Incidence rate in Missouri By Race



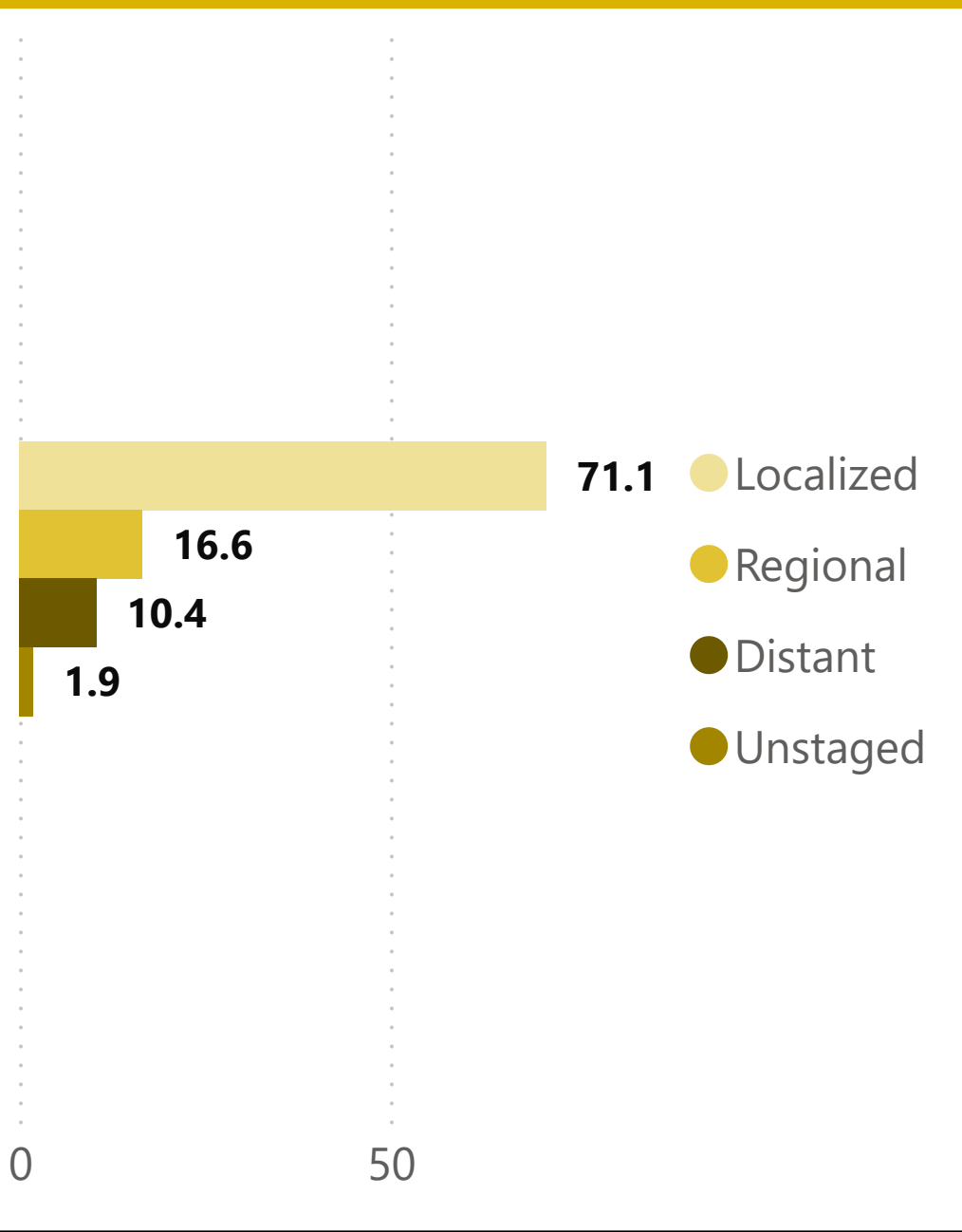
Incidence Rate in Missouri County level 2019-2023



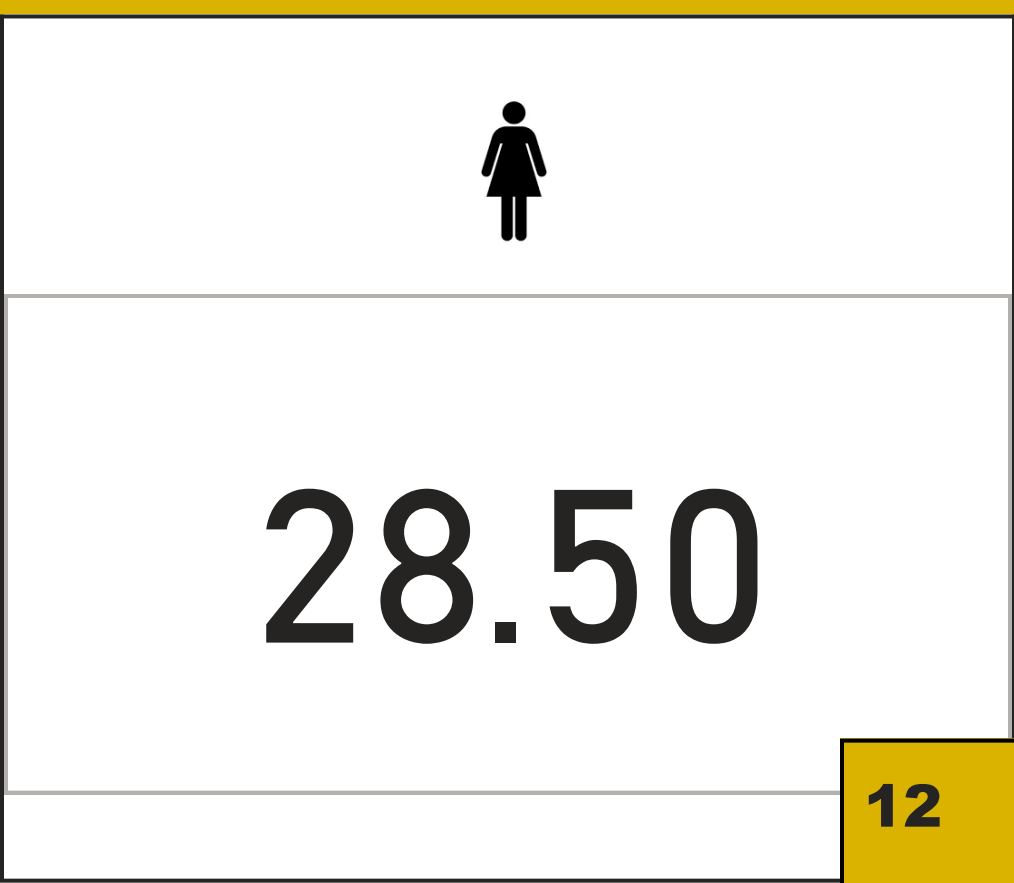
Mortality Rate in Missouri County level 2020 - 2024



%Stage Distribution



Incidence rate 2019-2023



PROSTATE CANCER IN MISSOURI

Incidence rate 2019-2023

21178

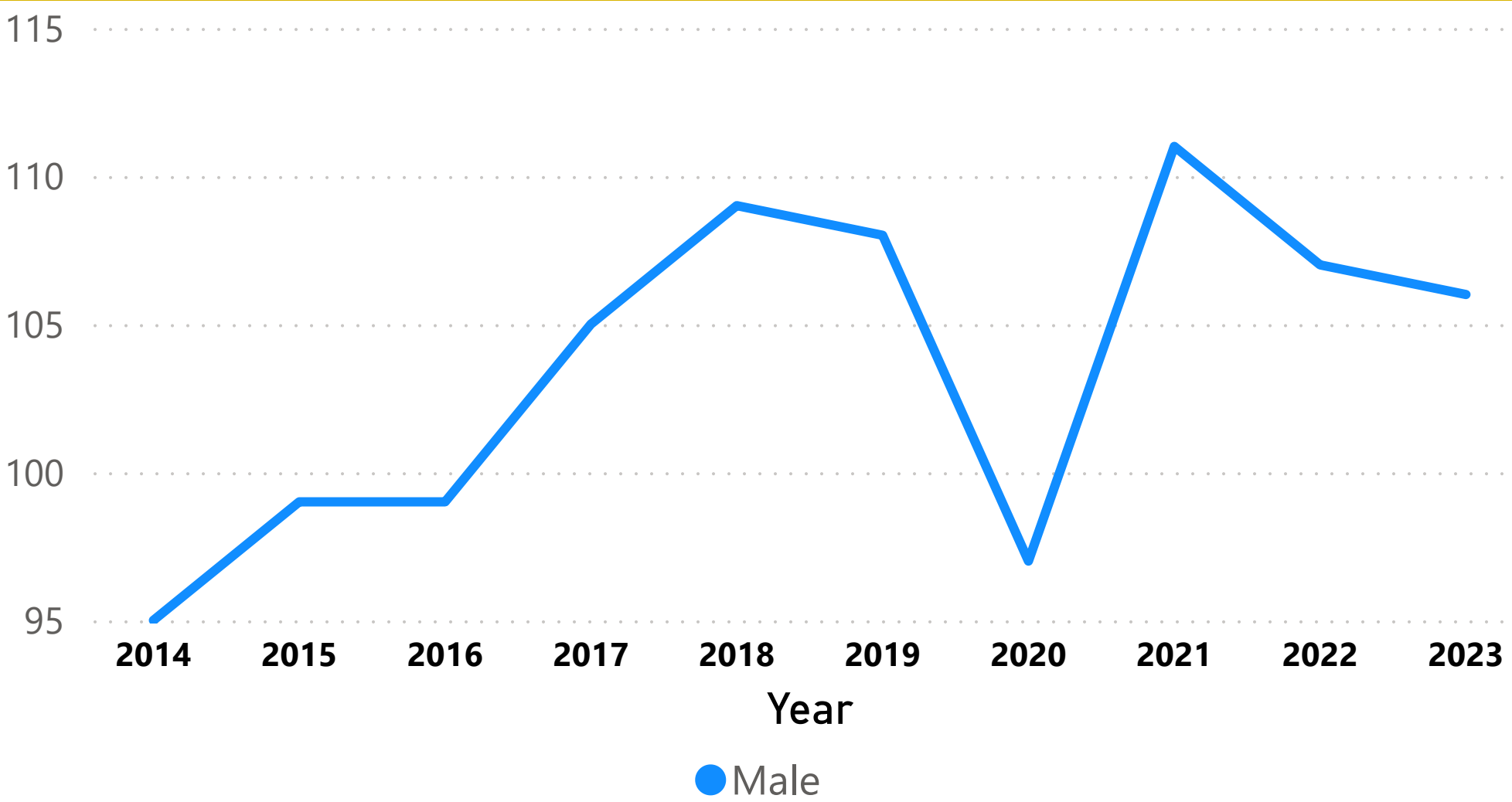
Prostate cancer survivors 2019-2023

54105

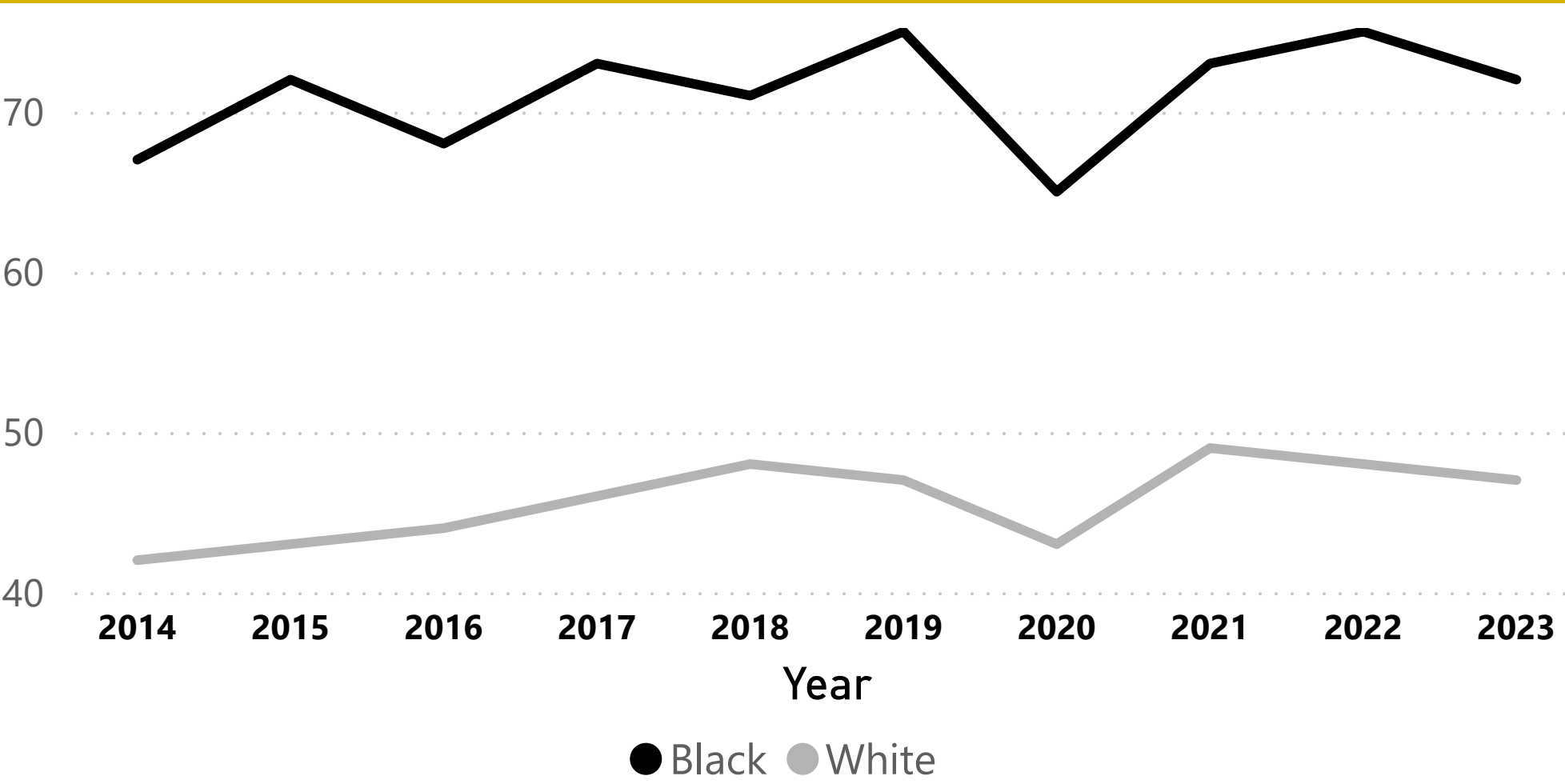
Ranked in the death rate in the US

35

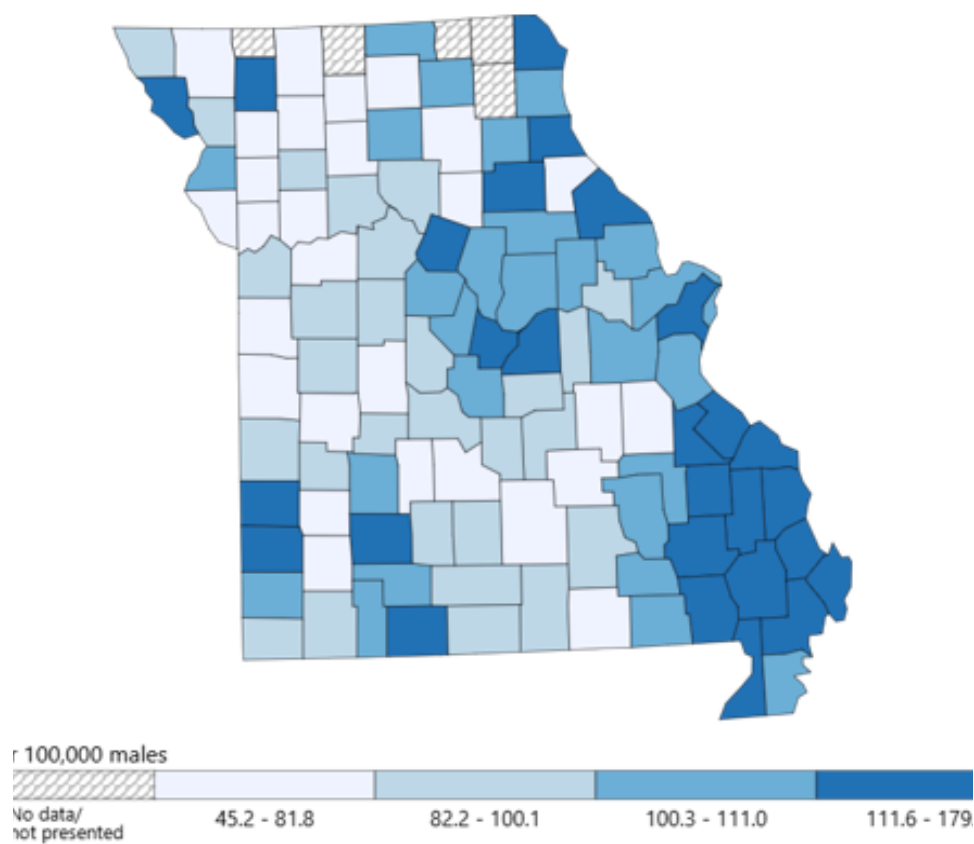
10 year Age-adjusted Incidence rate in Missouri By Sex



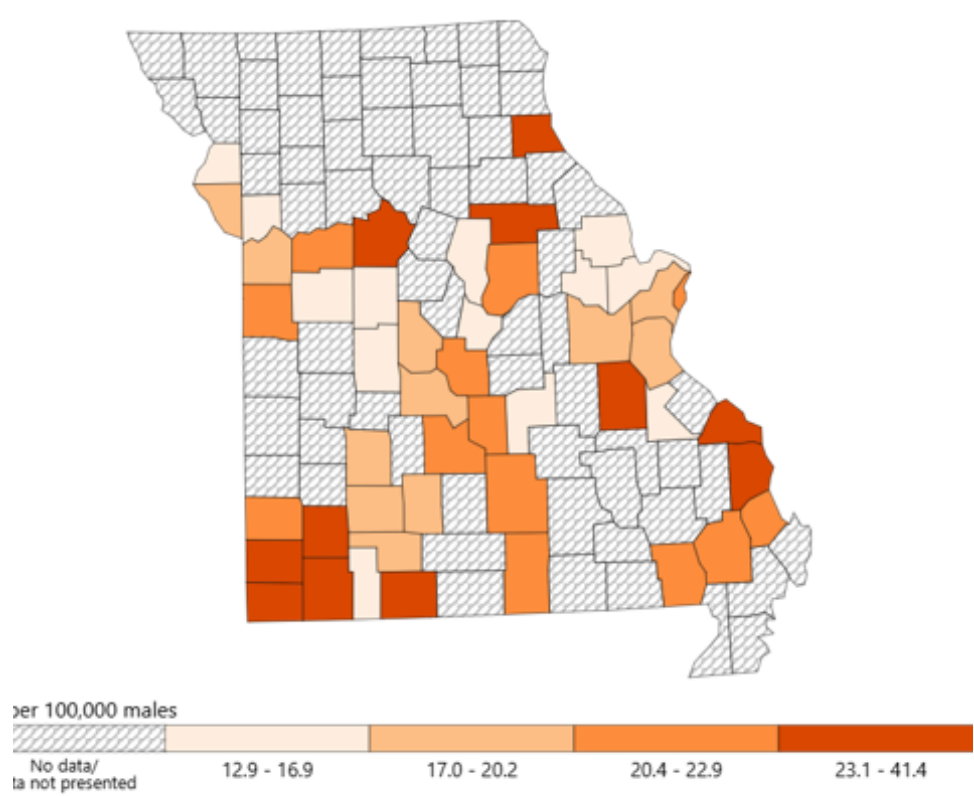
10 year Age-adjusted Incidence rate in Missouri By Race



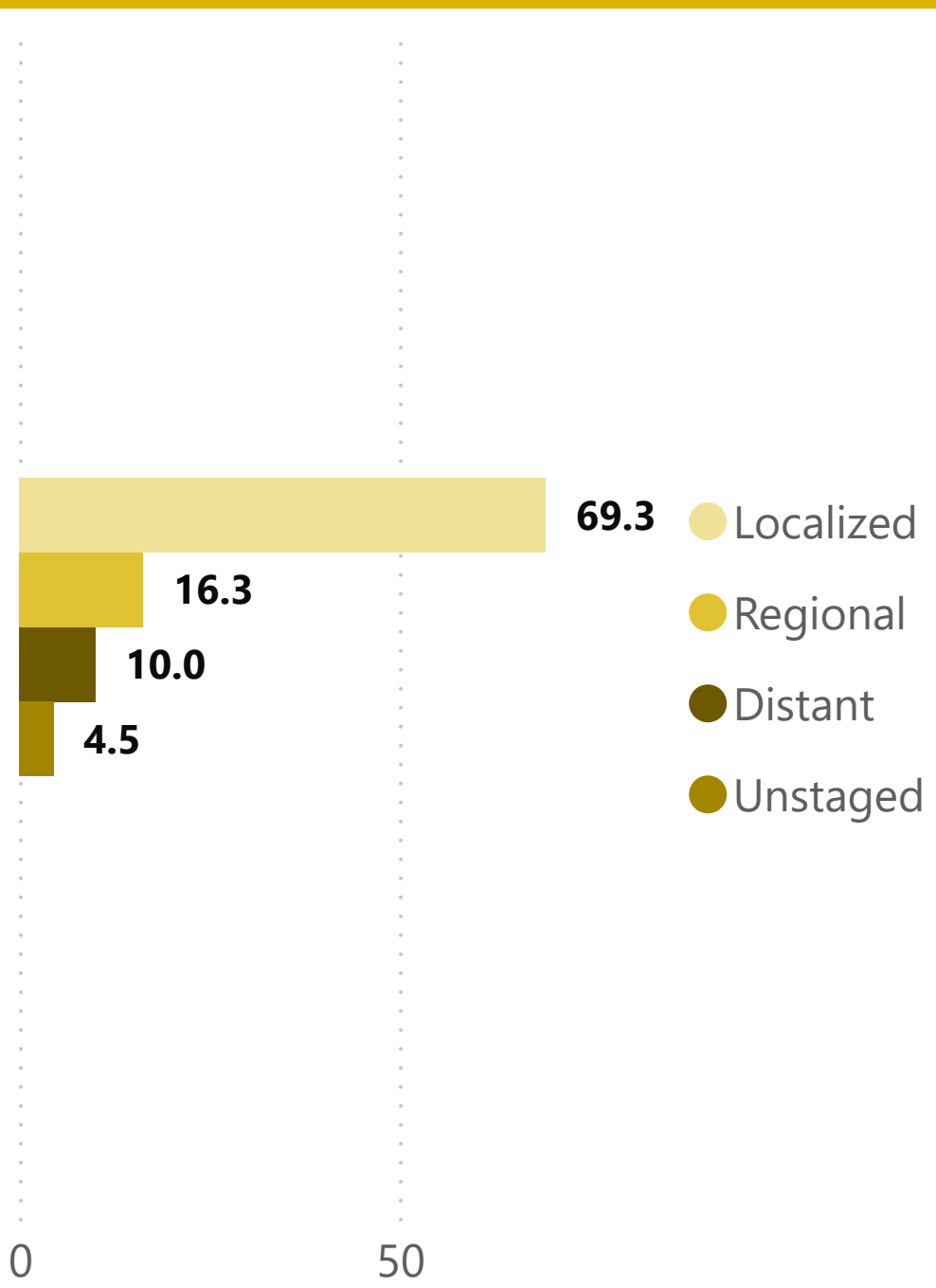
Incidence Rate in Missouri County level 2019-2023



Mortality Rate in Missouri County level 2020 - 2024



%Stage Distribution



Incidence rate 2019-2023



104.70

PANCREAS CANCER IN MISSOURI

Incidence rate 2019-2023

5655

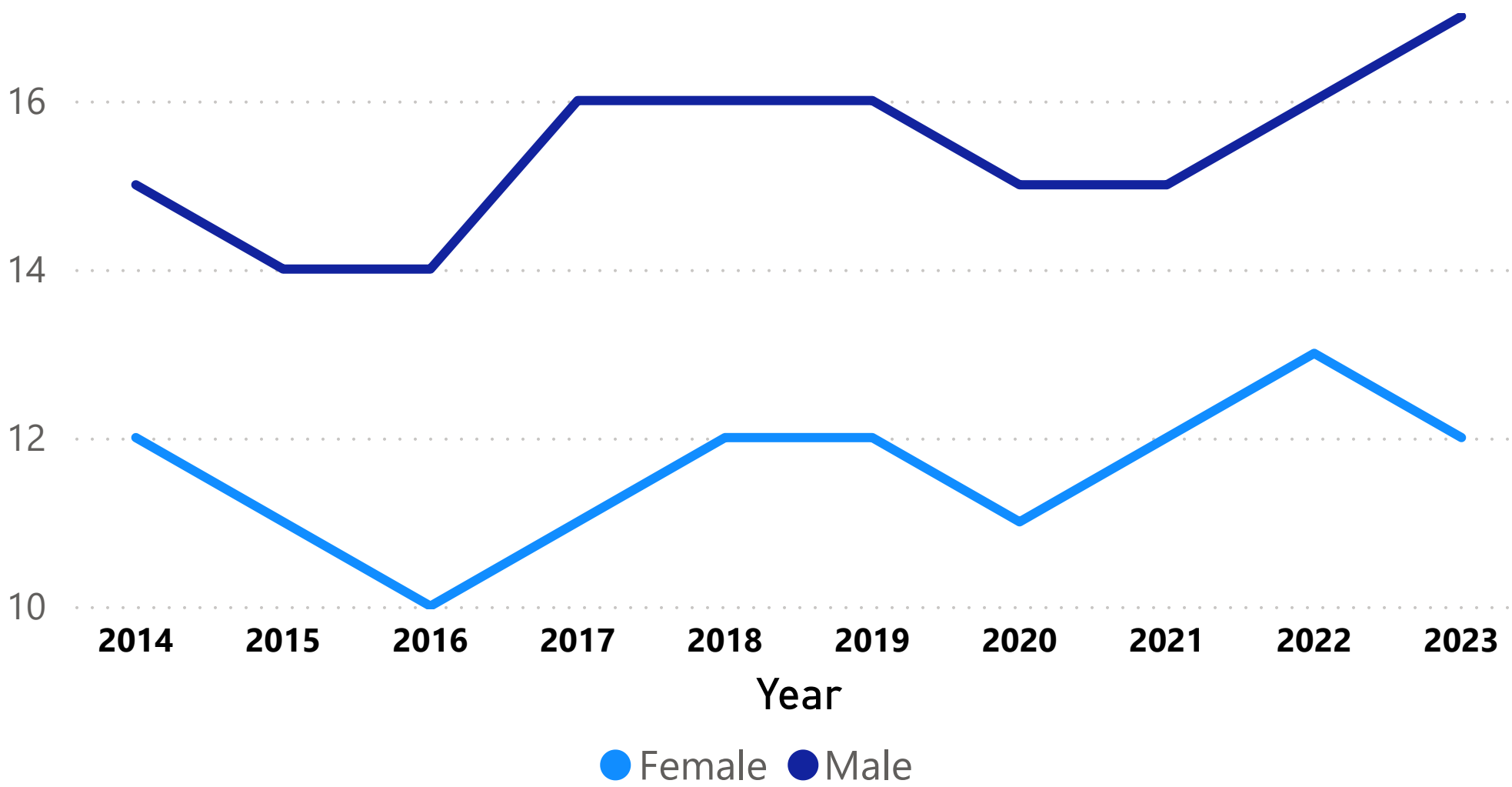
Pancreas cancer survivors 2019-2023

979

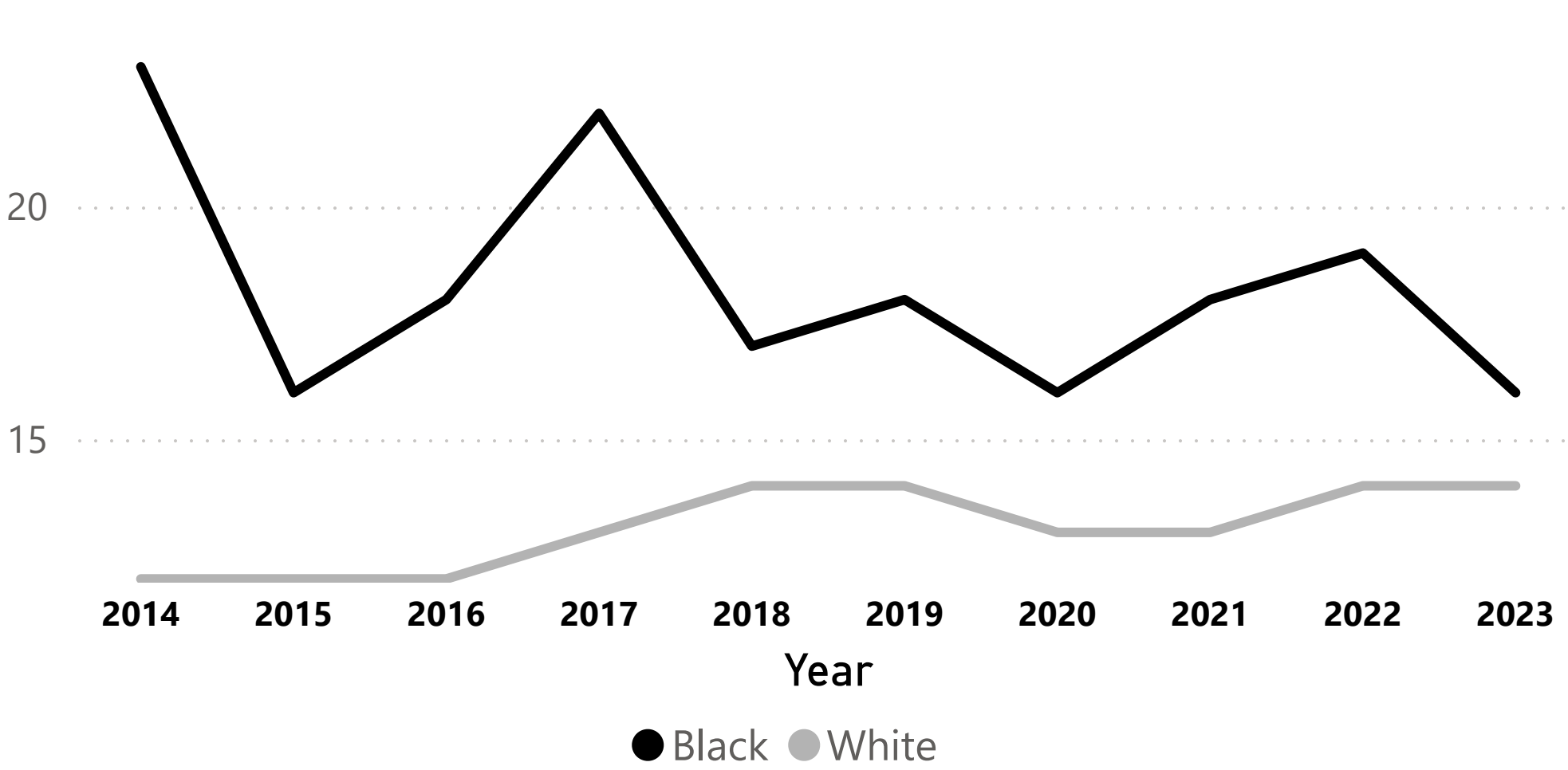
Ranked in the death rate in the US

10

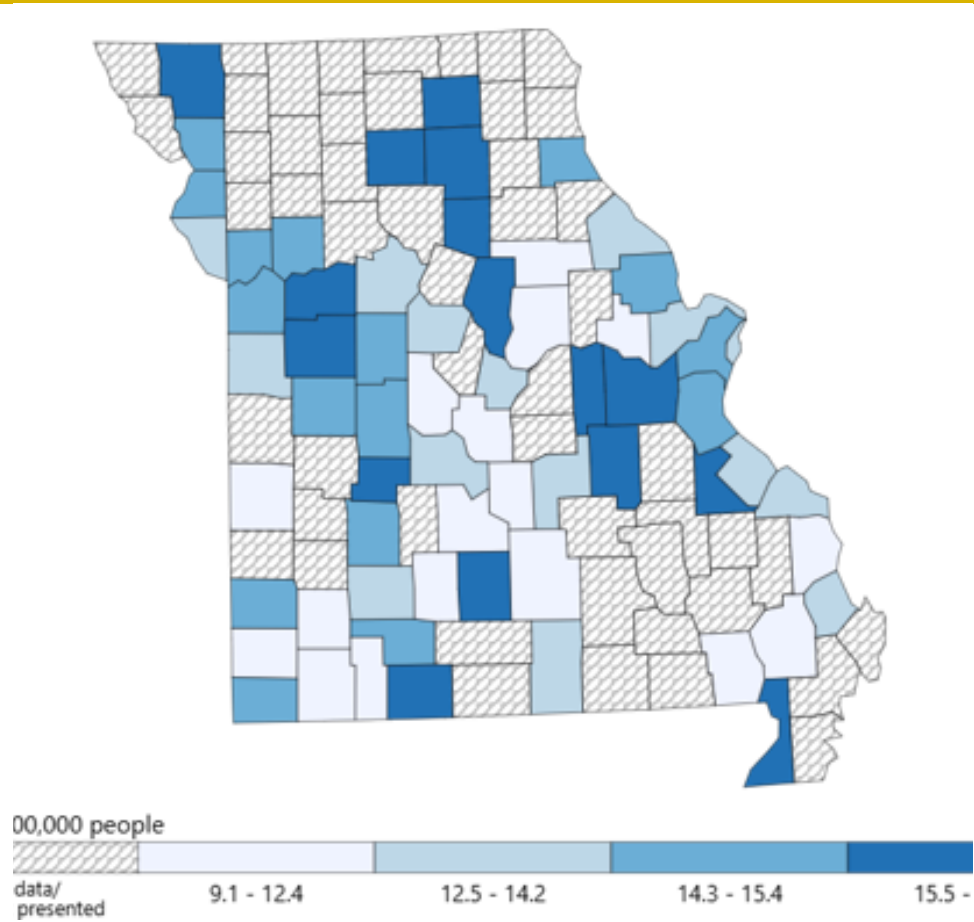
10 year Age-adjusted Incidence rate in Missouri By Sex



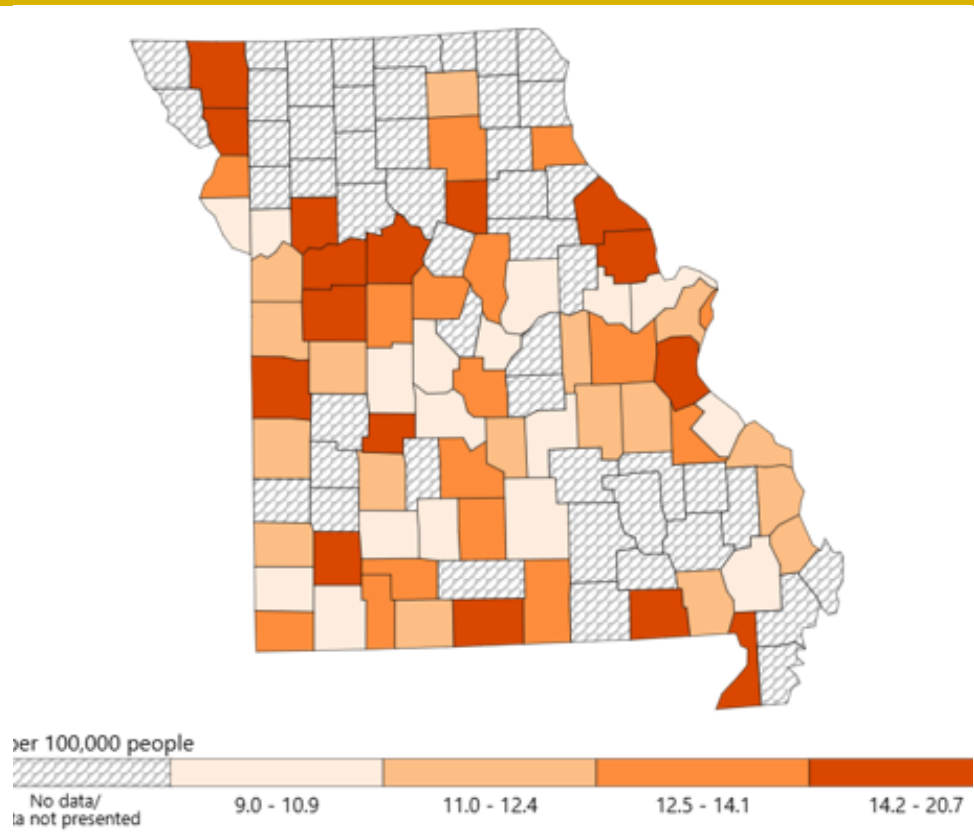
10 year Age-adjusted Incidence rate in Missouri By Race



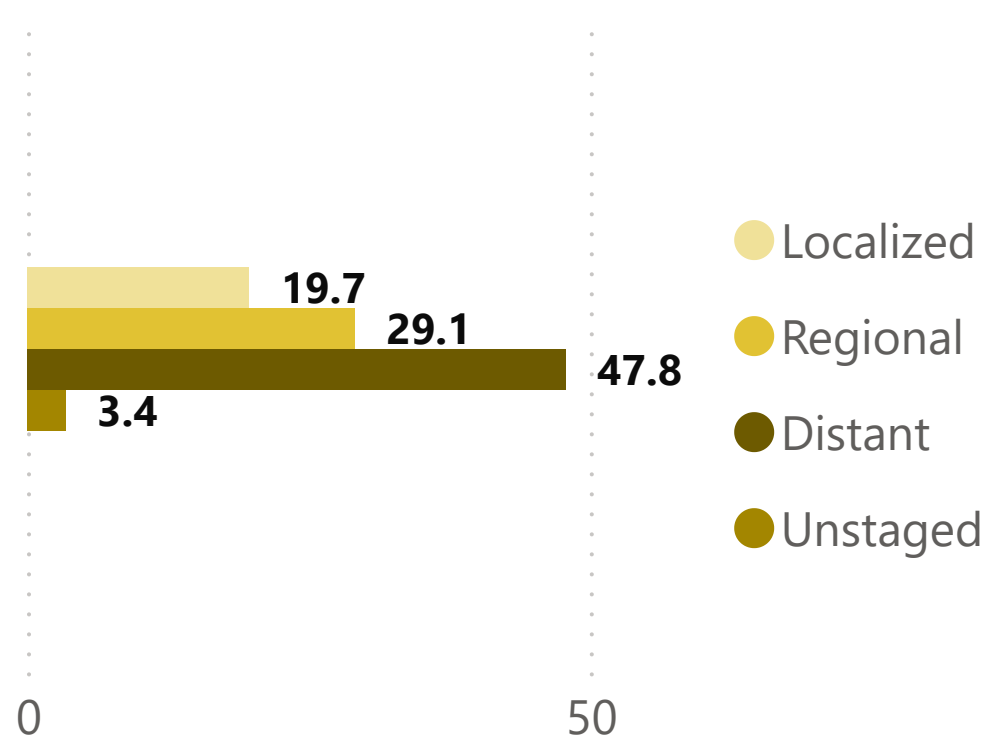
Incidence Rate in Missouri County level 2019-2023



Mortality Rate in Missouri County level 2020 - 2024



%Stage Distribution



Incidence rate 2019-2023



15.80

Incidence rate 2019-2023



12.20

COLON & RECTUM CANCER IN MISSOURI

Incidence rate 2019-2023

15337

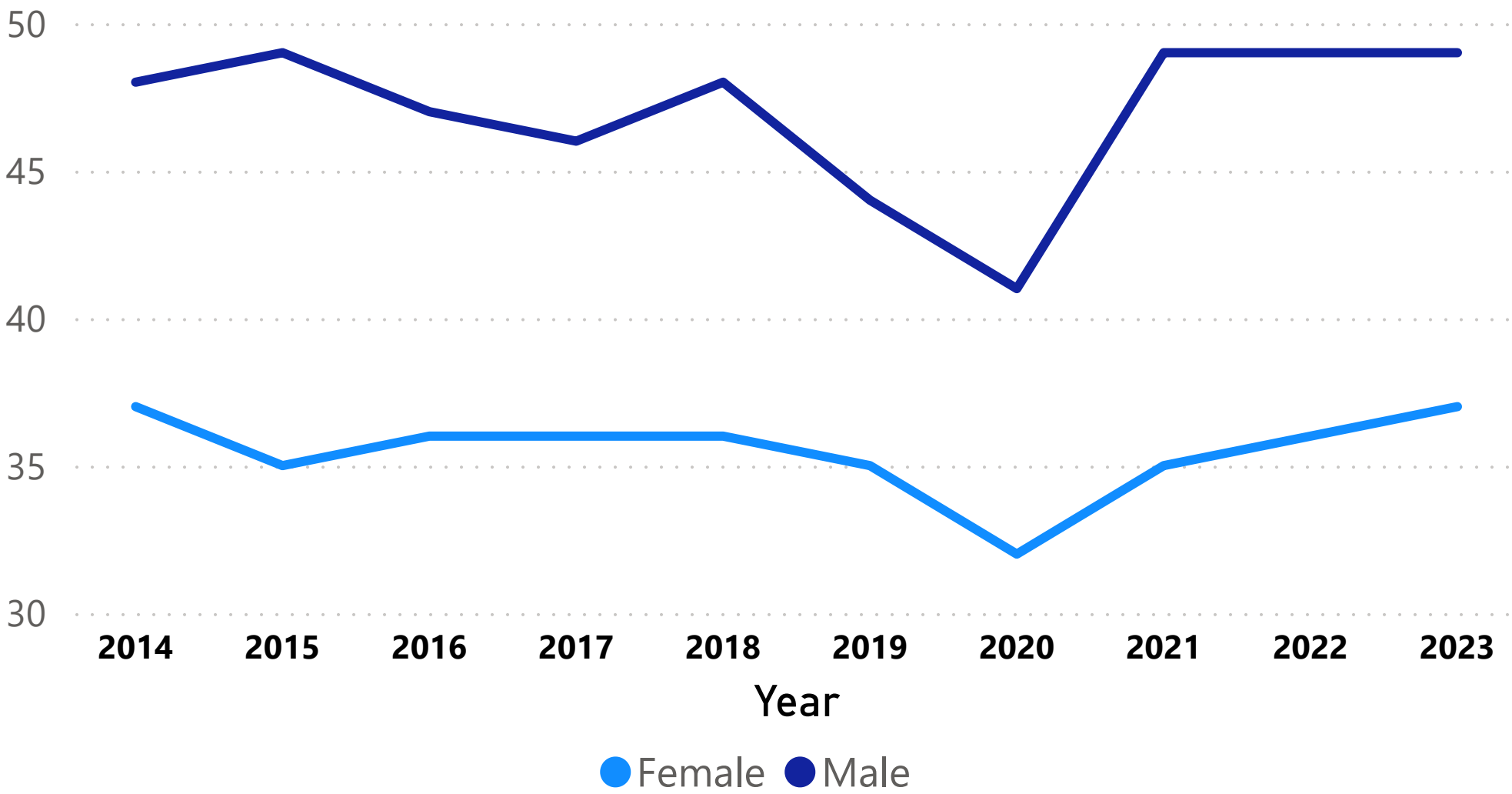
ColoRectal cancer survivors 2019-2023

12125

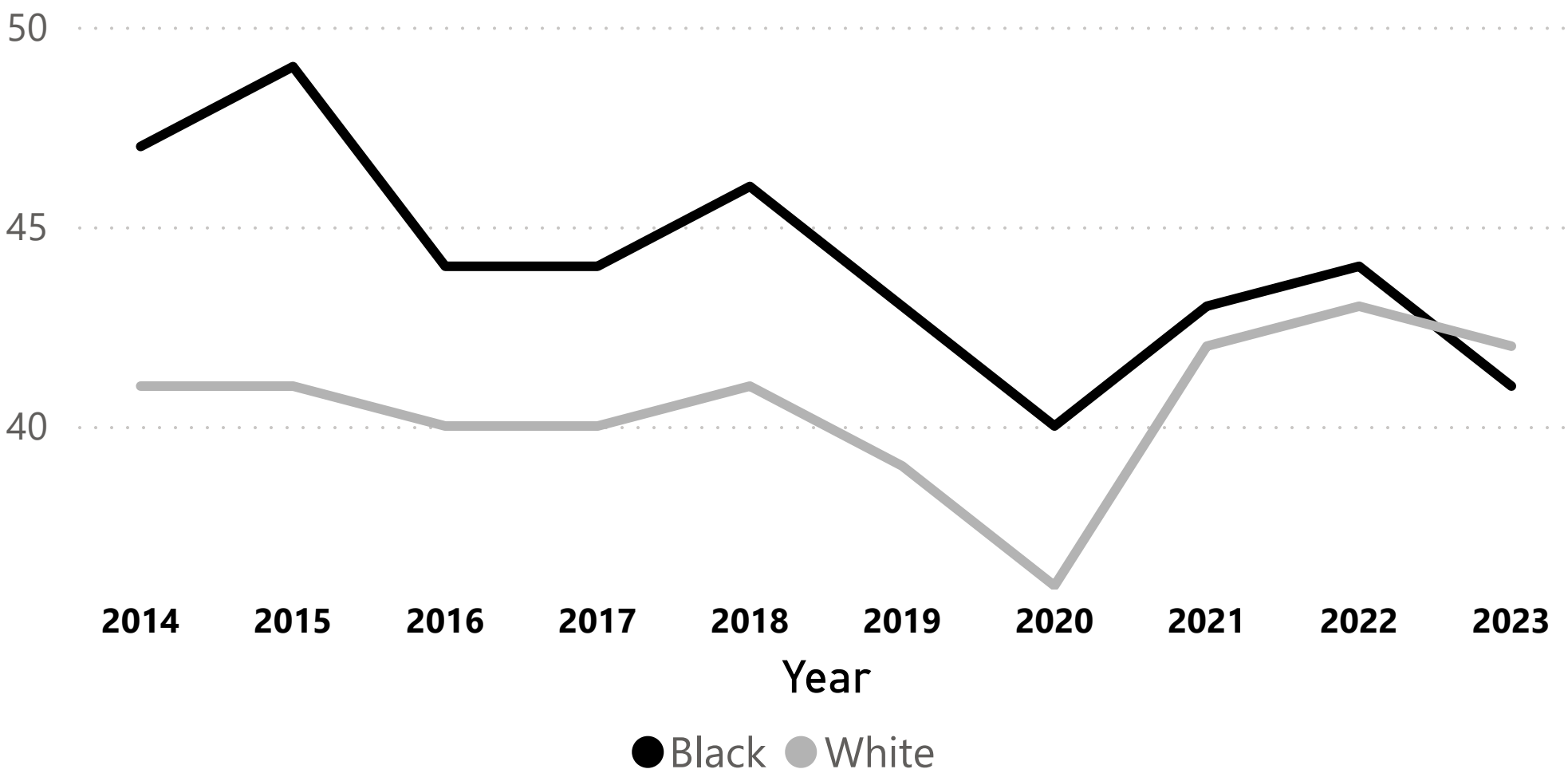
Ranked in the death rate in the US

11

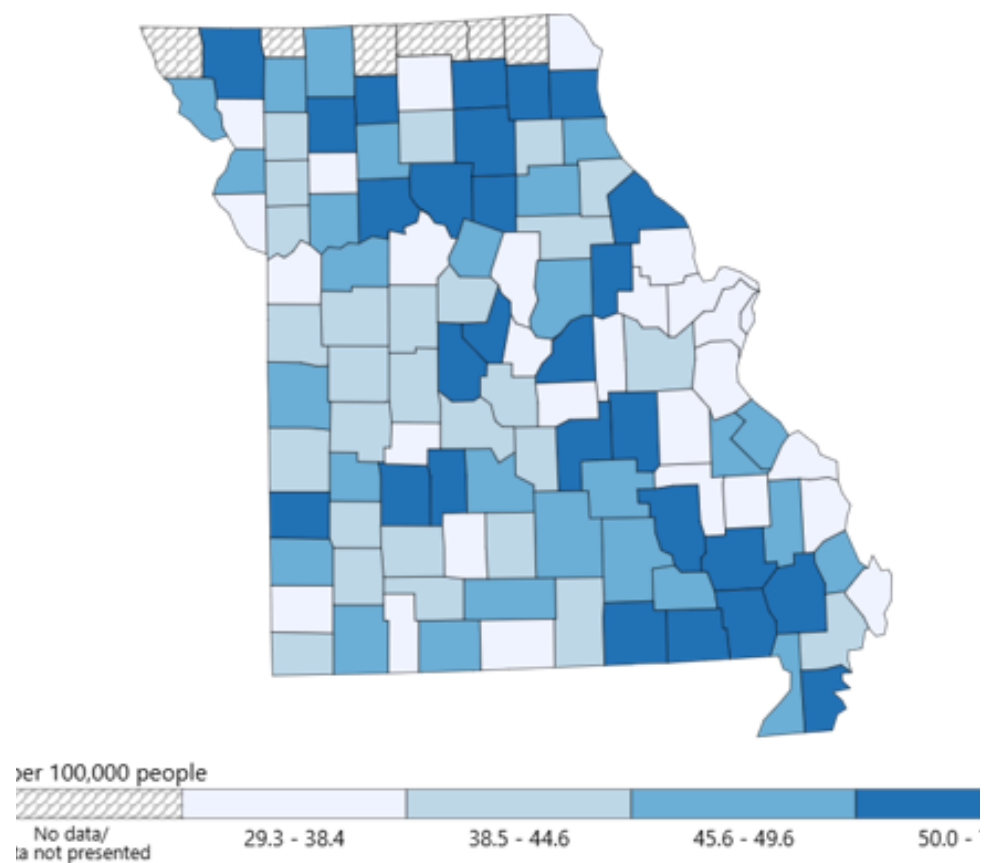
10 year Age-adjusted Incidence rate in Missouri By Sex



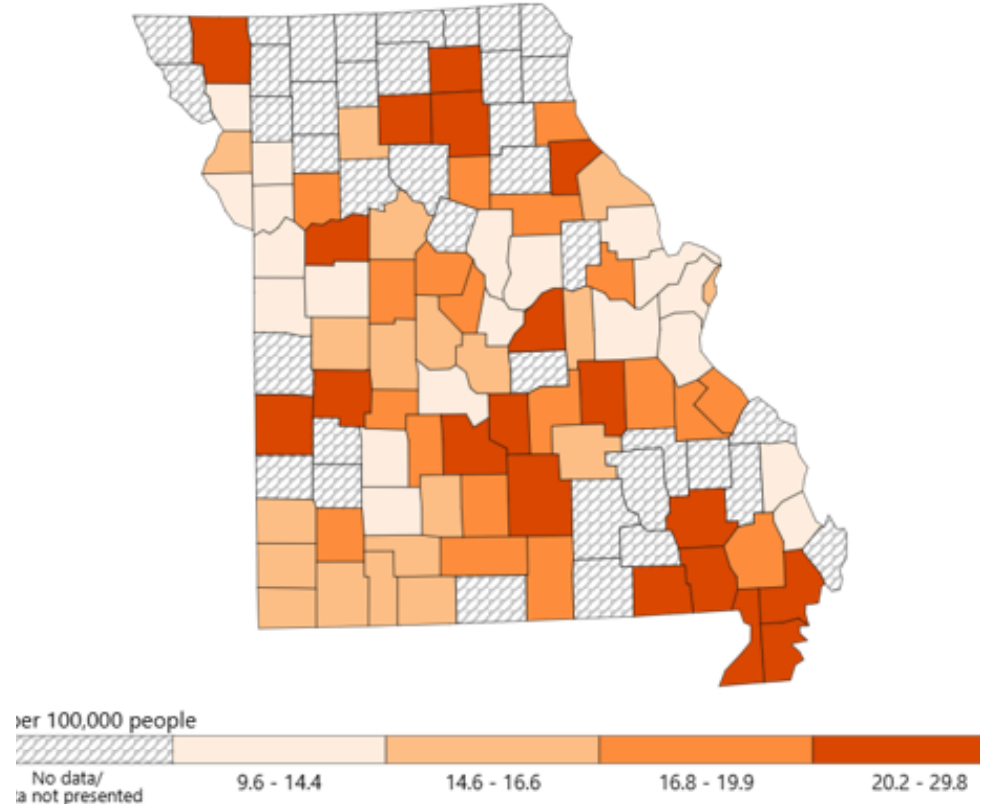
10 year Age-adjusted Incidence rate in Missouri By Race



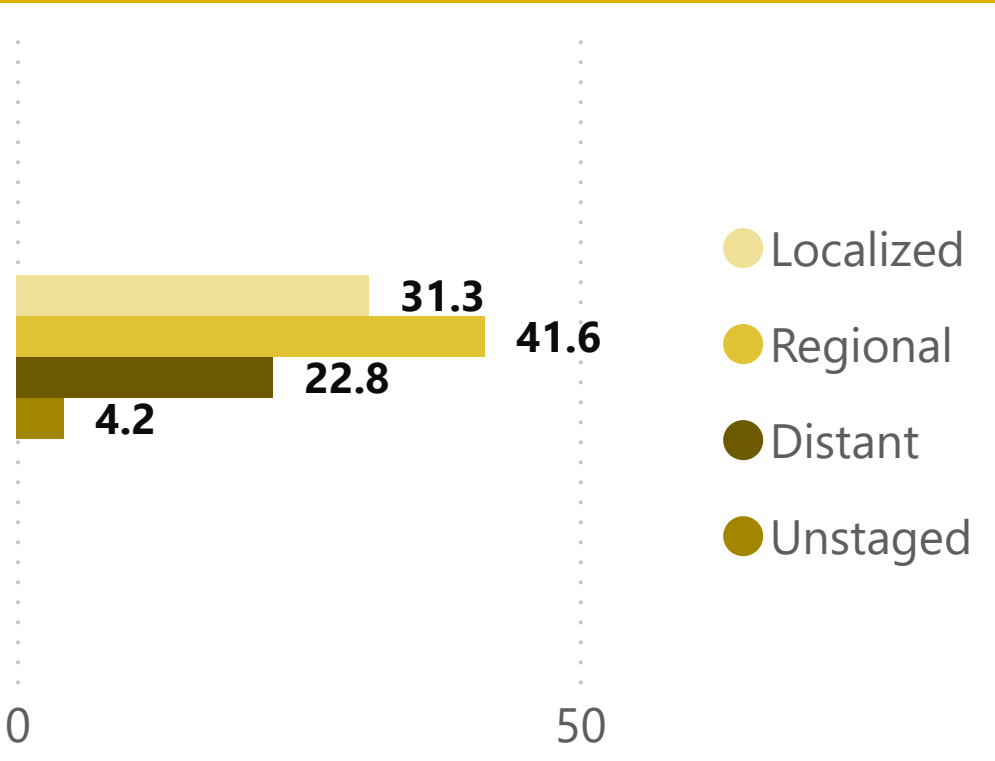
Incidence Rate in Missouri County level 2019-2023



Mortality Rate in Missouri County level 2020 - 2024



%Stage Distribution



Incidence rate 2019-2023



46.50

Incidence rate 2019-2023



35.00

KIDNEY & RENAL PELVIS CANCER IN MISSOURI

Incidence rate 2019-2023

8138

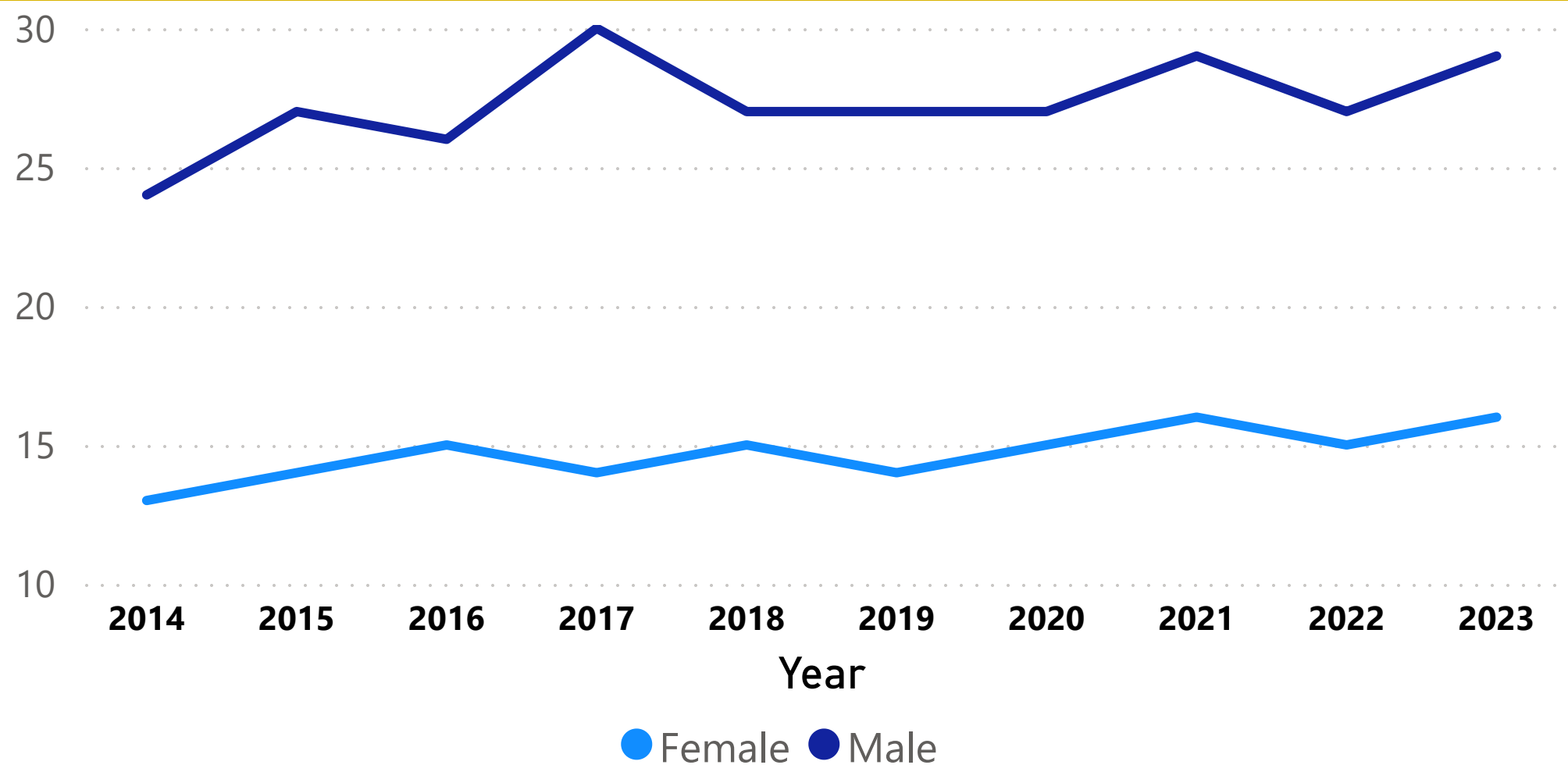
Kidney & Renal Pelvis cancer survivors 2019-2023

5531

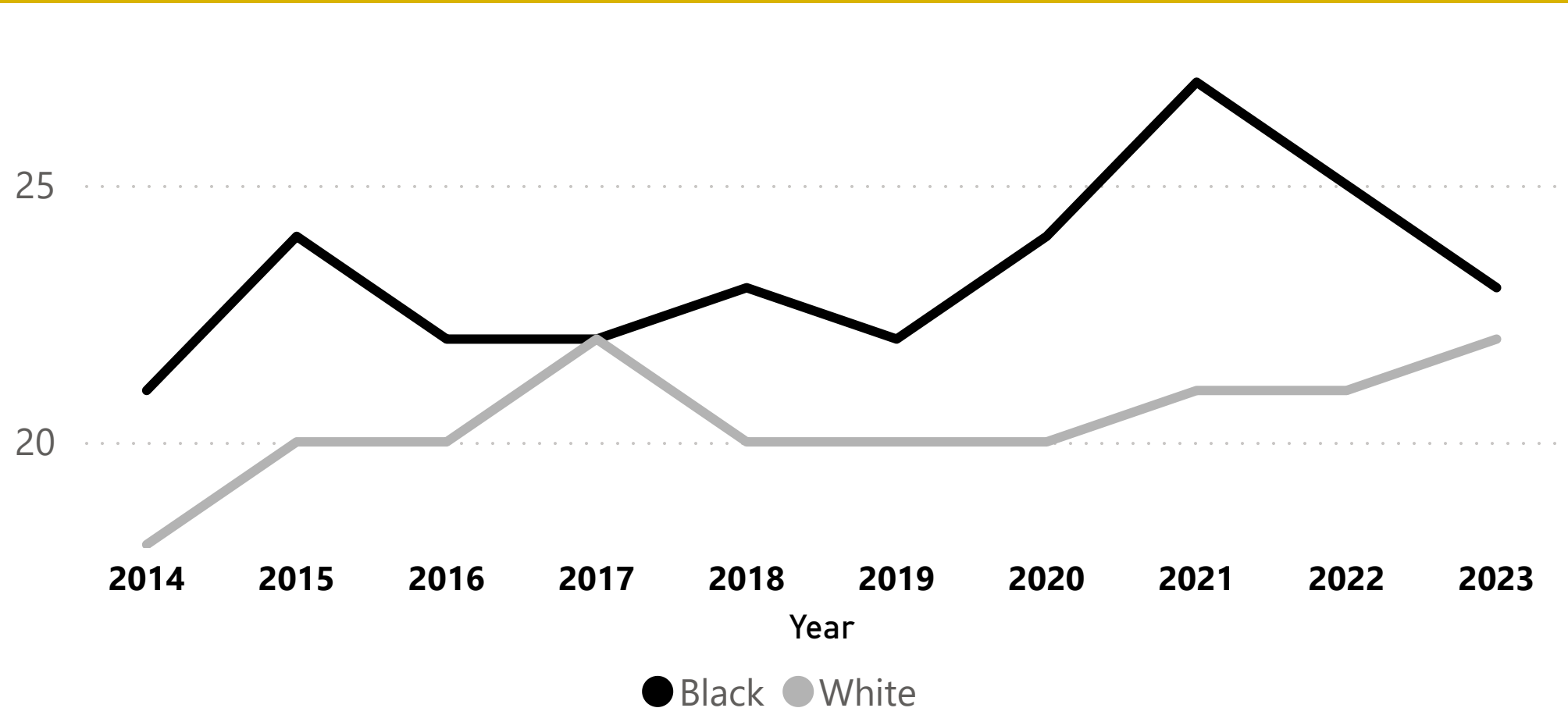
Ranked in the death rate in the US

7

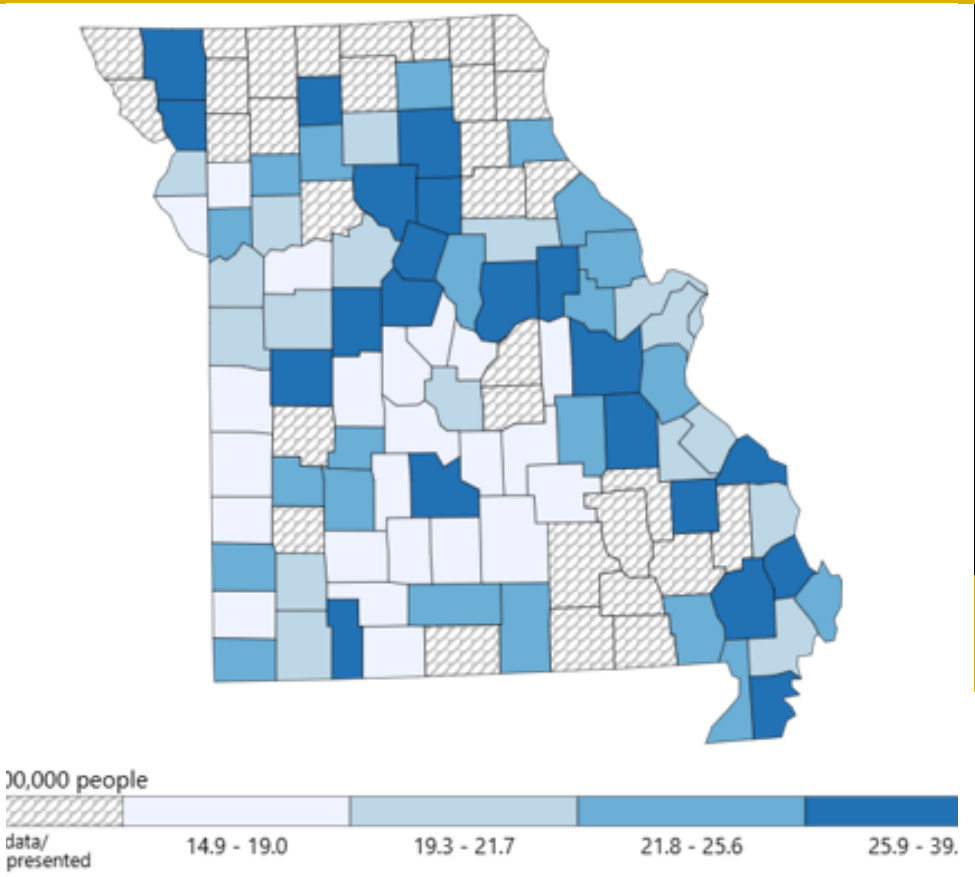
10 year Age-adjusted Incidence rate in Missouri By Sex



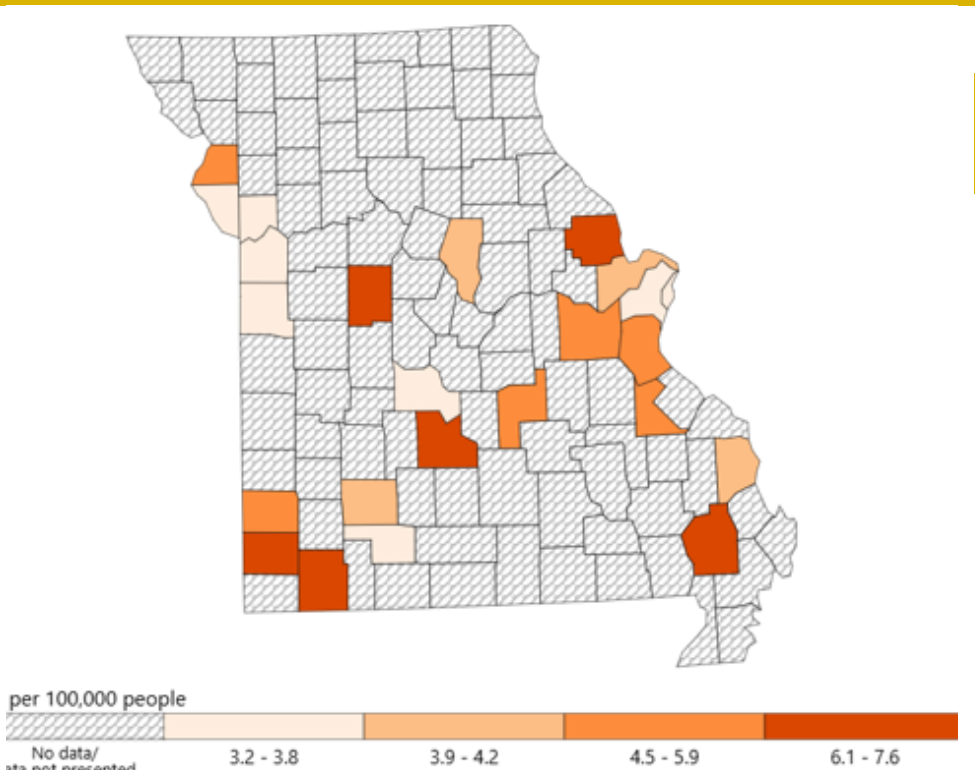
10 year Age-adjusted Incidence rate in Missouri By Race



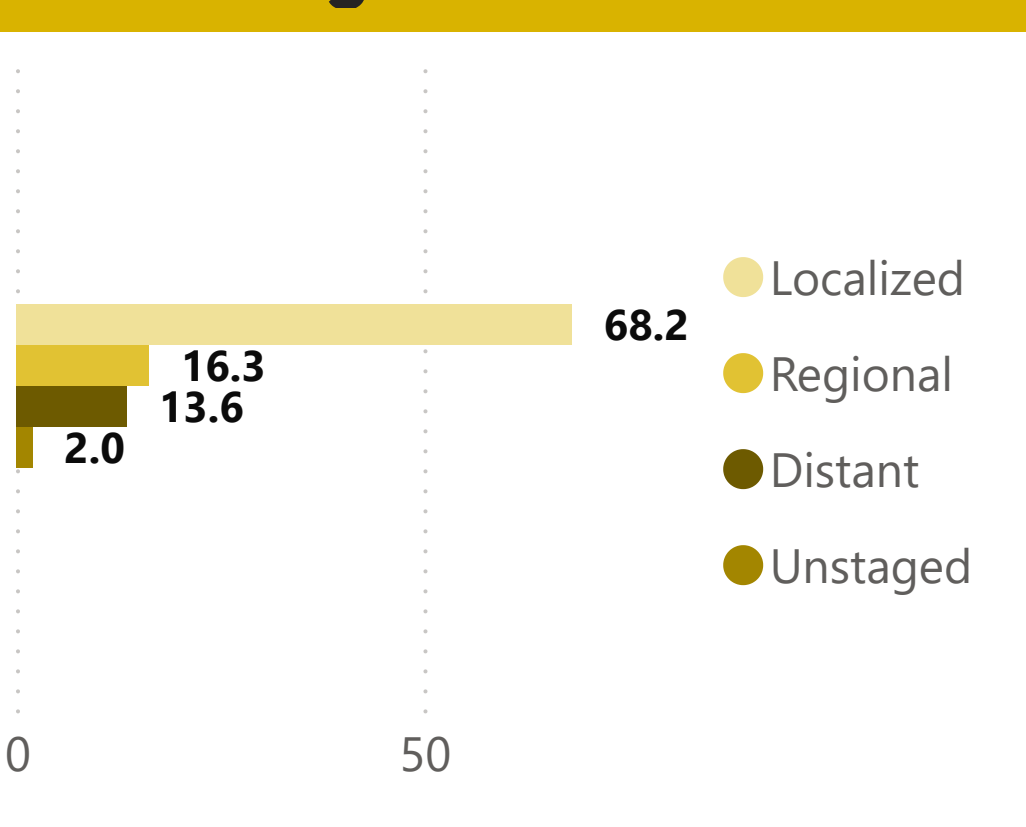
Incidence Rate in Missouri County level 2019-2023



Mortality Rate in Missouri County level 2020 - 2024



%Stage Distribution



Incidence rate 2019-2023

27.80

Incidence rate 2019-2023

15.10

MELANOMA OF SKIN IN MISSOURI

Incidence rate 2019-2023

8059

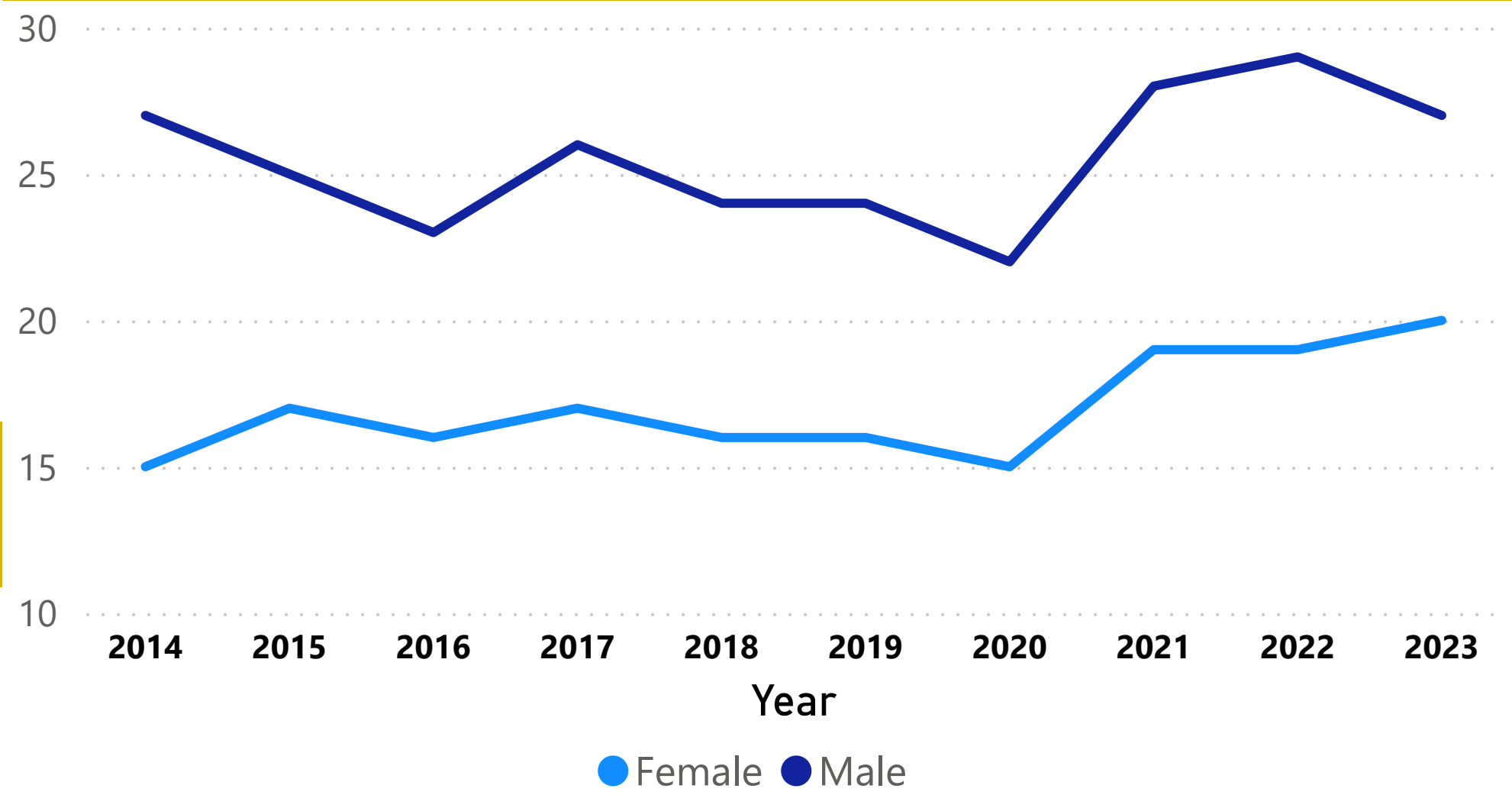
Melanoma survivors 2019-2023

7931

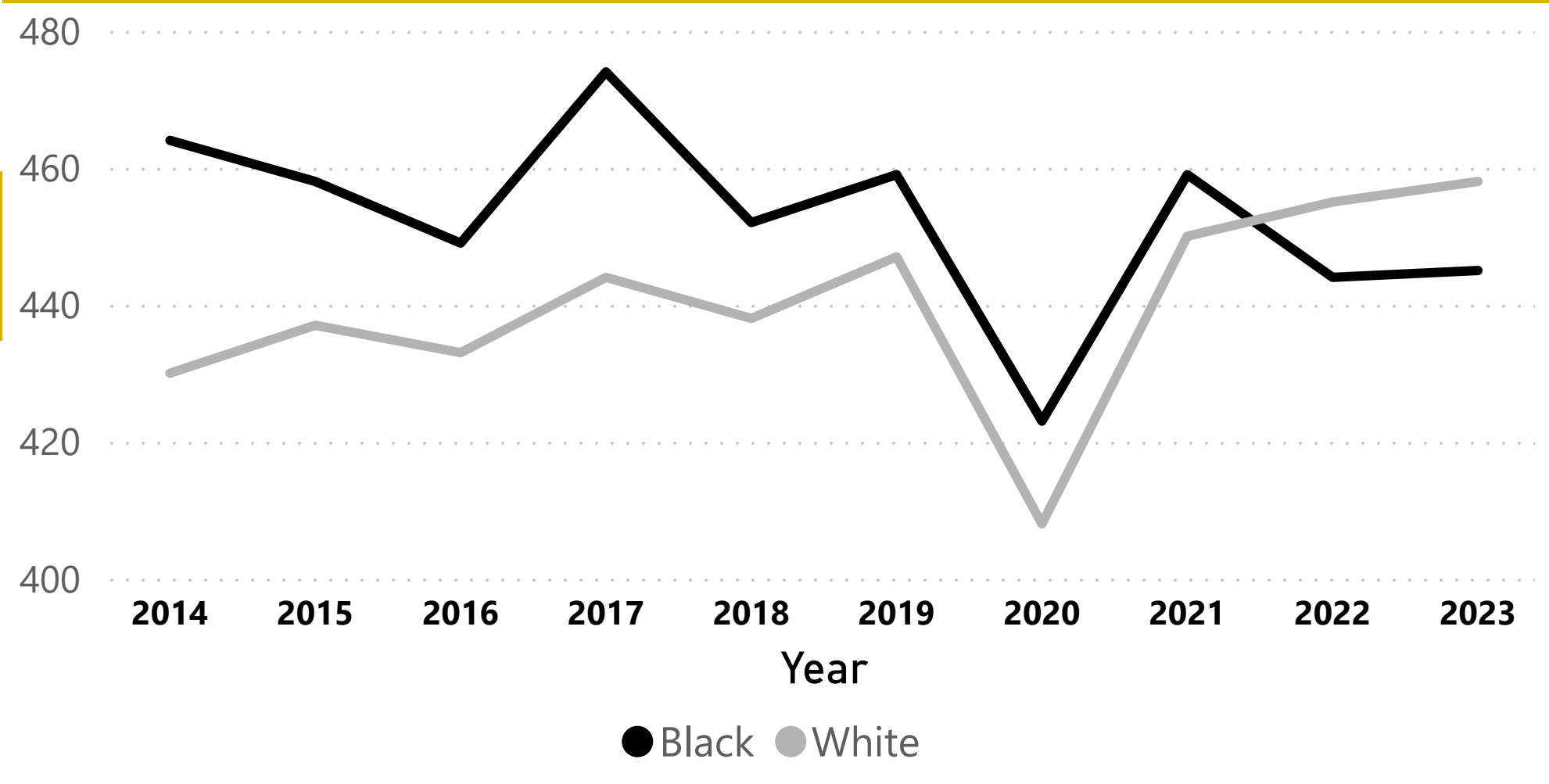
Ranked in the death rate in the US

17

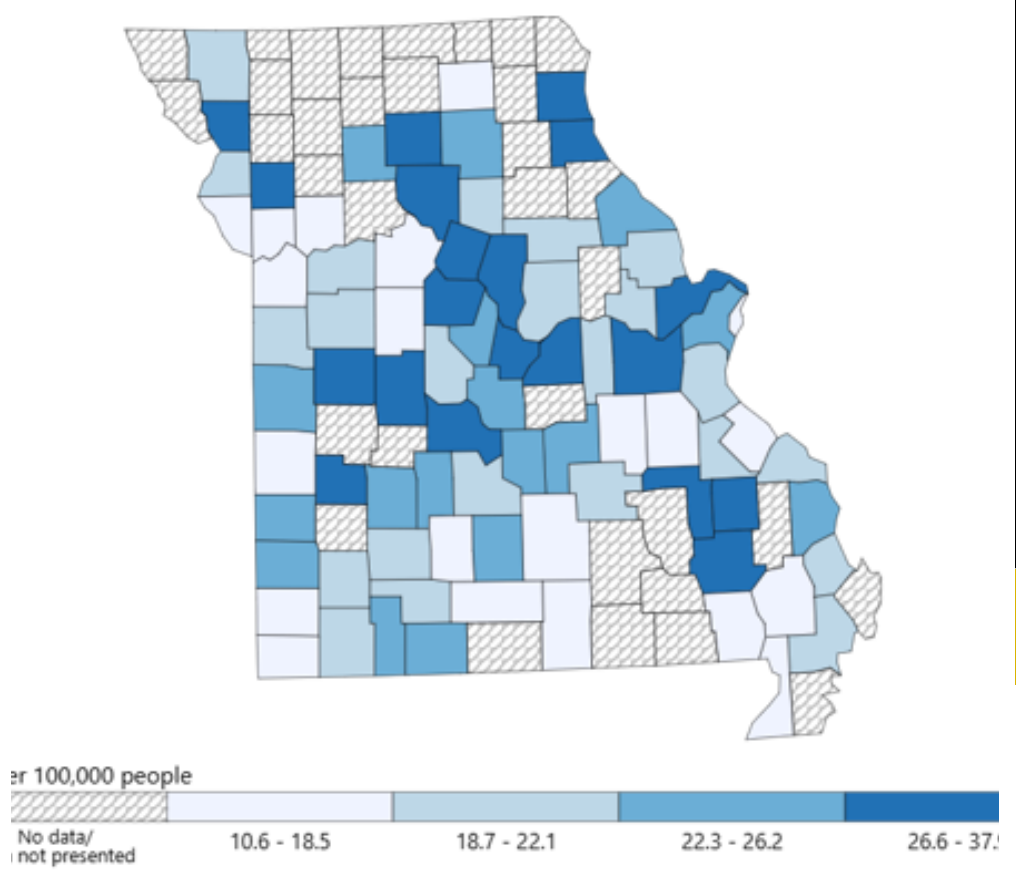
10 year Age-adjusted Incidence rate in Missouri By Sex



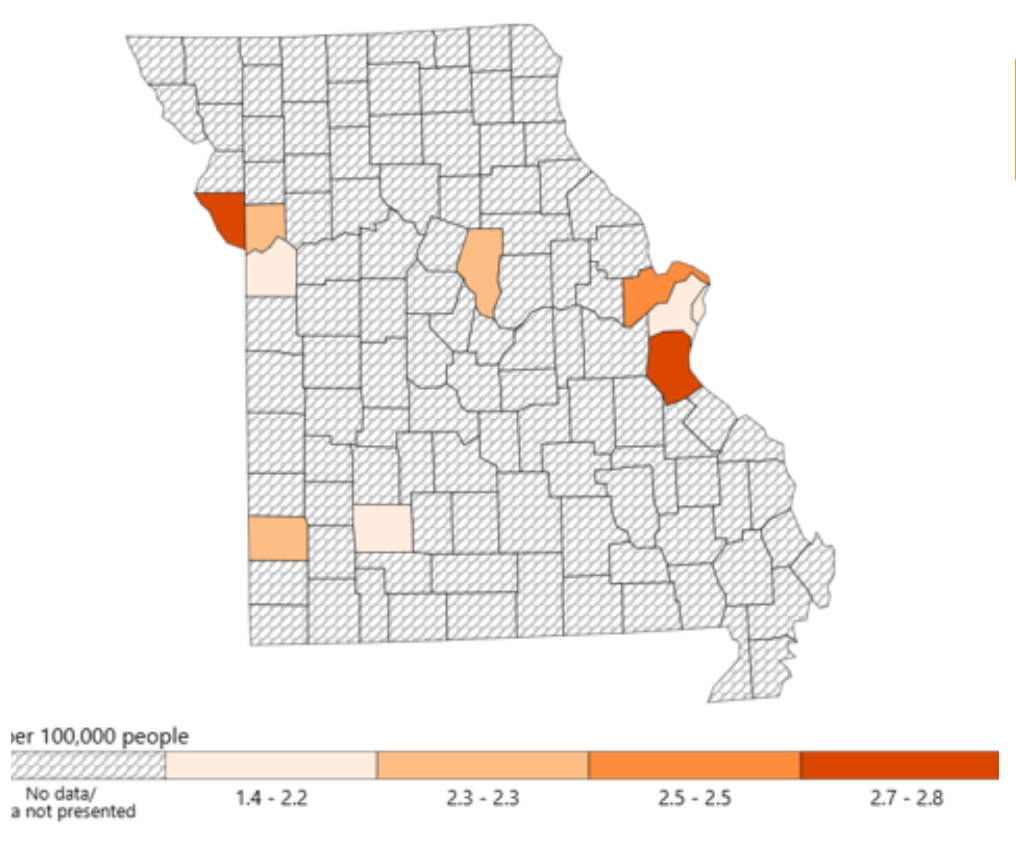
10 year Age-adjusted Incidence rate in Missouri By Race



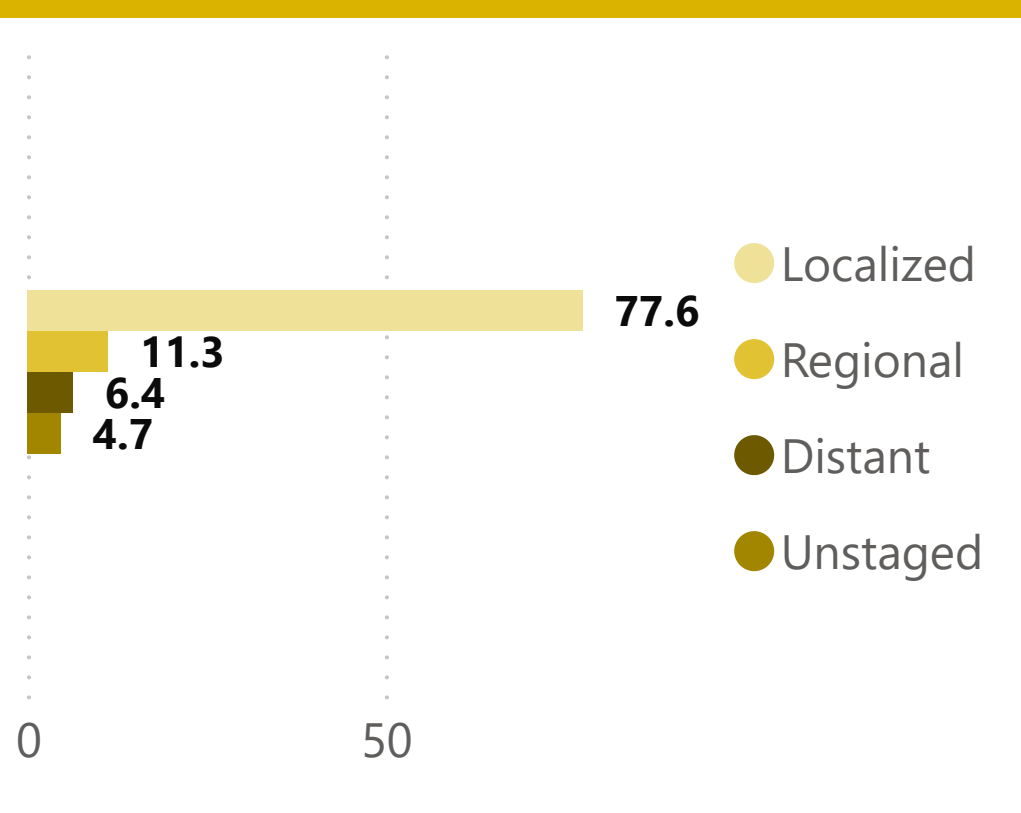
Incidence Rate in Missouri County level 2019-2023



Mortality Rate in Missouri County level 2020 - 2024



%Stage Distribution



Incidence rate 2019-2023

26.30

Incidence rate 2019-2023

17.80

URINARY BLADDER CANCER IN MISSOURI

Incidence rate 2019-2023

7760

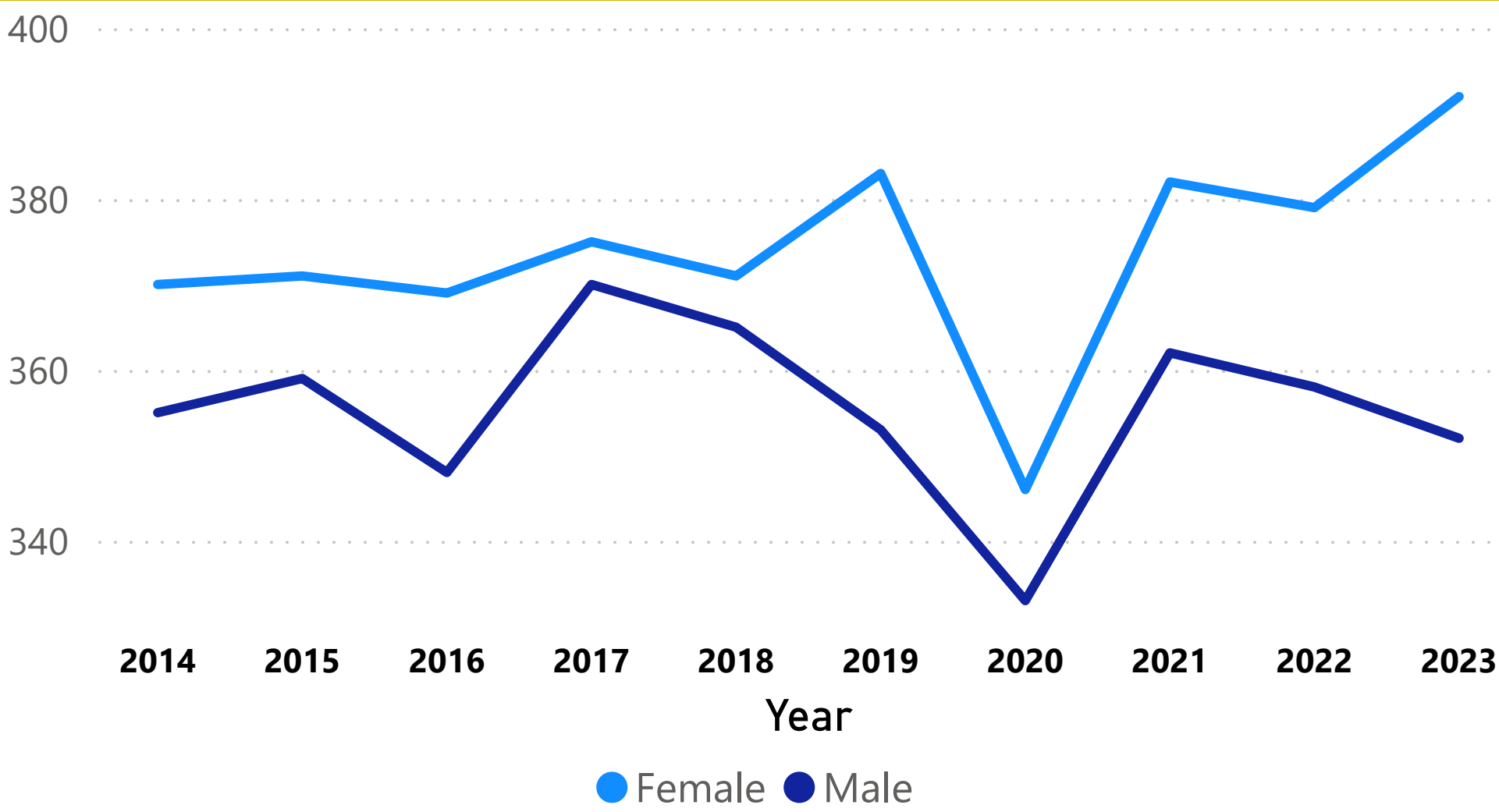
Urinary Bladder cancer survivors 2019-2023

2985

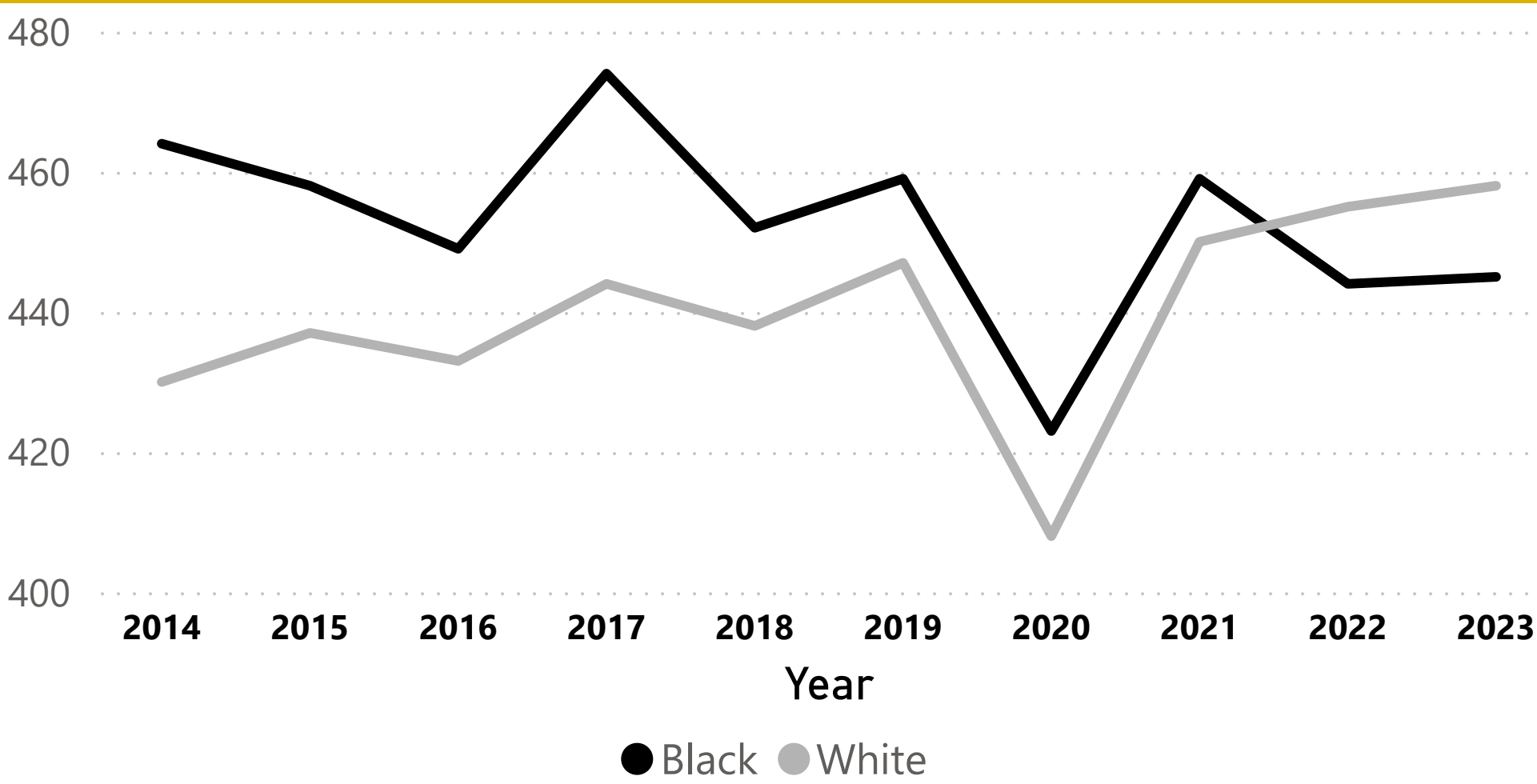
Ranked in the death rate in the US

17

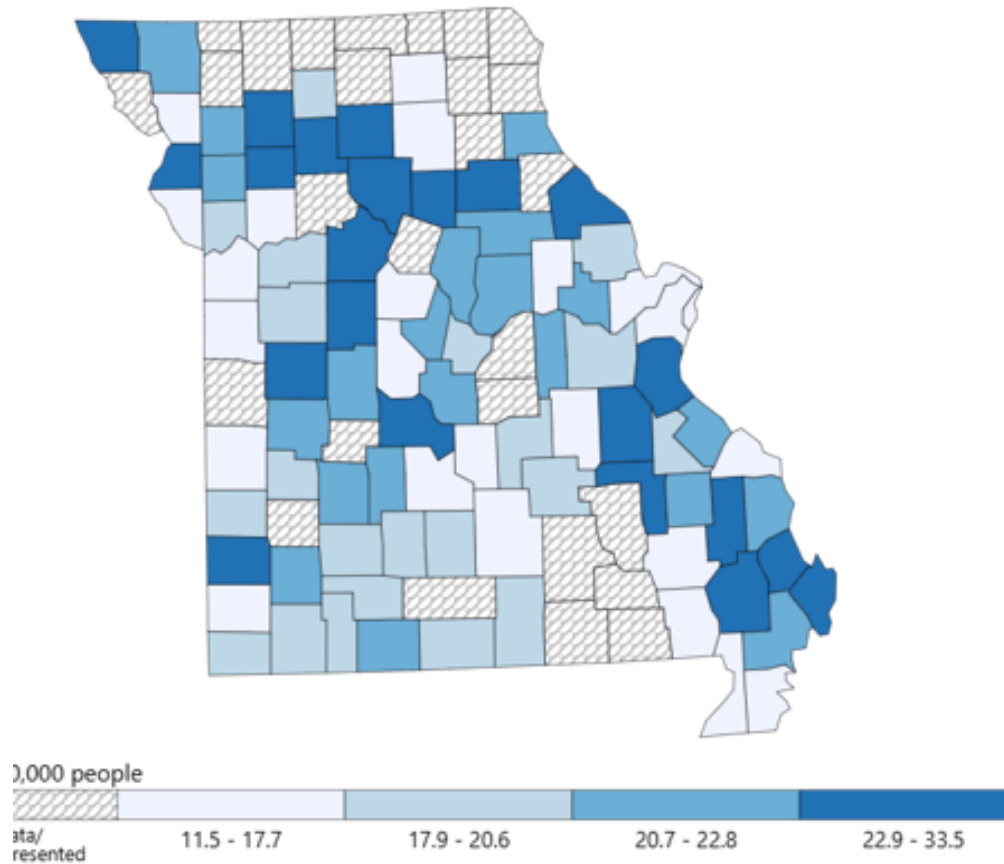
10 year Age-adjusted Incidence rate in Missouri By Sex



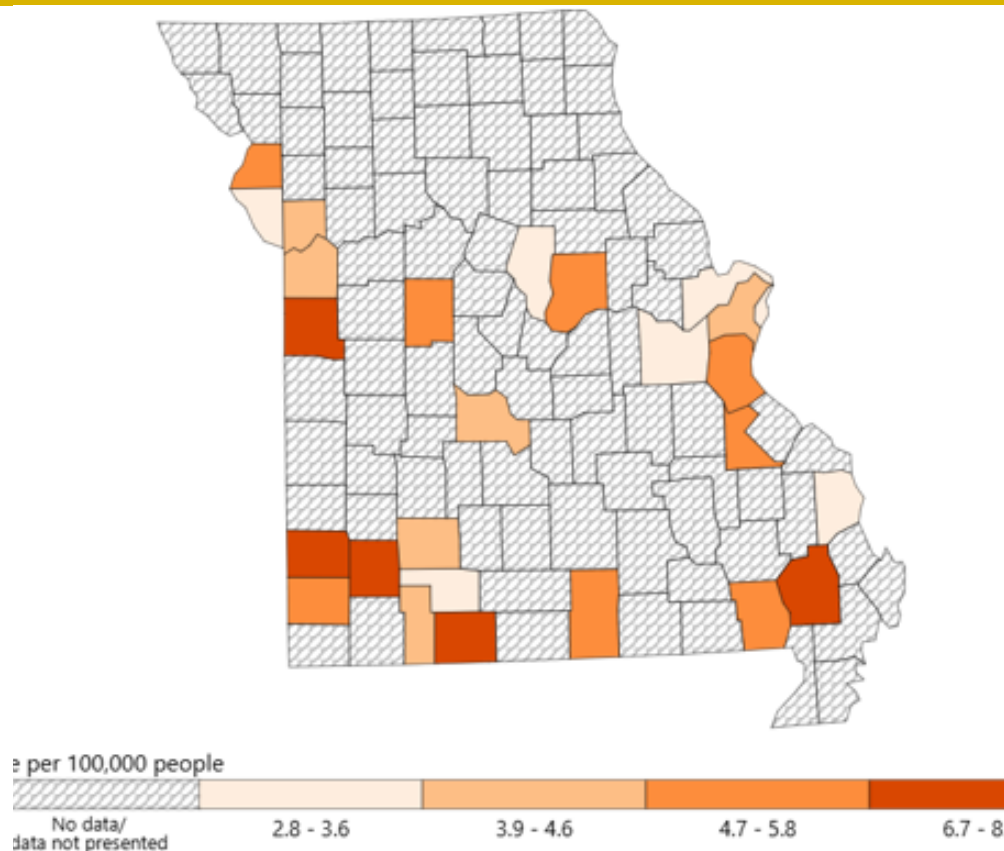
10 year Age-adjusted Incidence rate in Missouri By Race



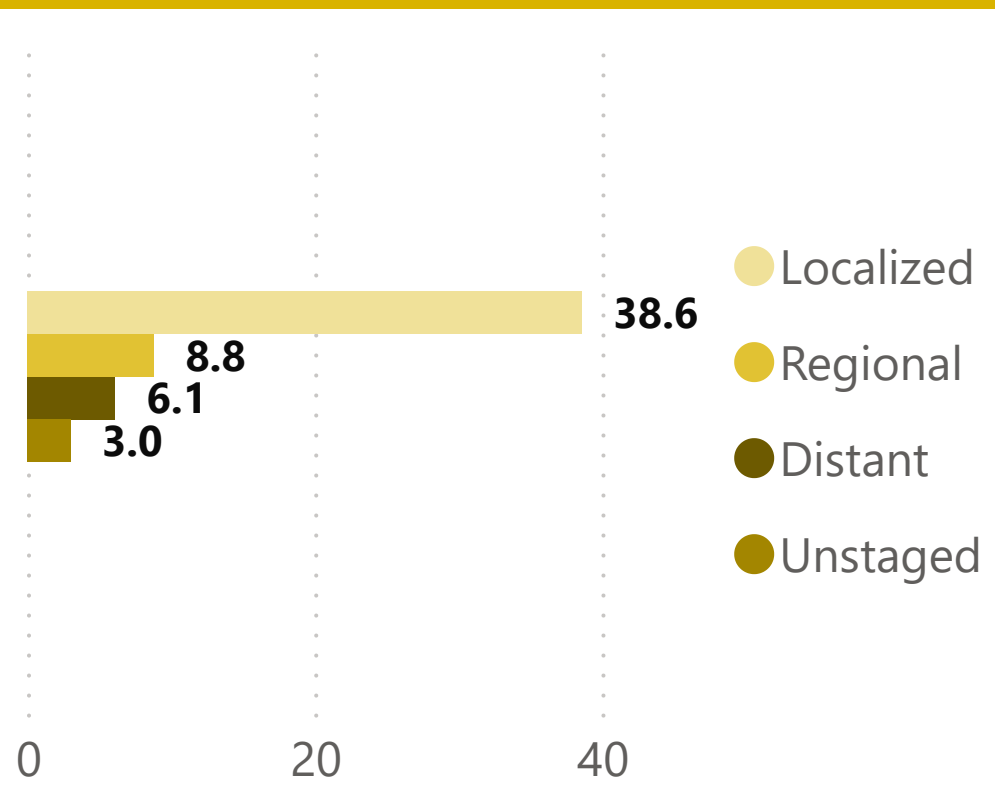
Incidence Rate in Missouri County level 2019-2023



Mortality Rate in Missouri County level 2020 - 2024



%Stage Distribution



Incidence rate 2019-2023



39.10

Incidence rate 2019-2023



11.50

NON HODGKIN'S LYMPHOMA IN MISSOURI

Incidence rate 2019-2023

7385

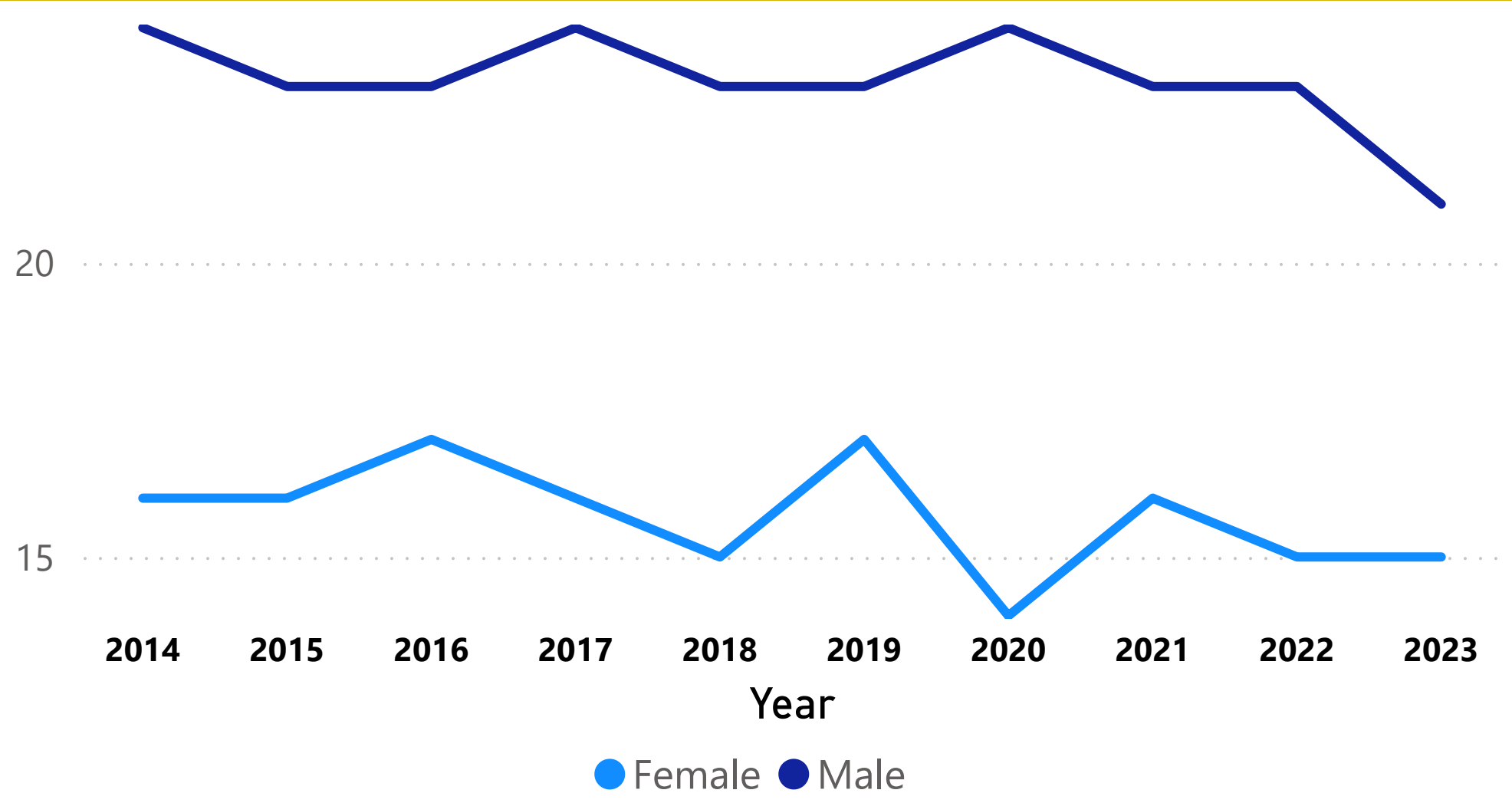
Non Hodgkin's lymphoma survivors 2019-2023

6009

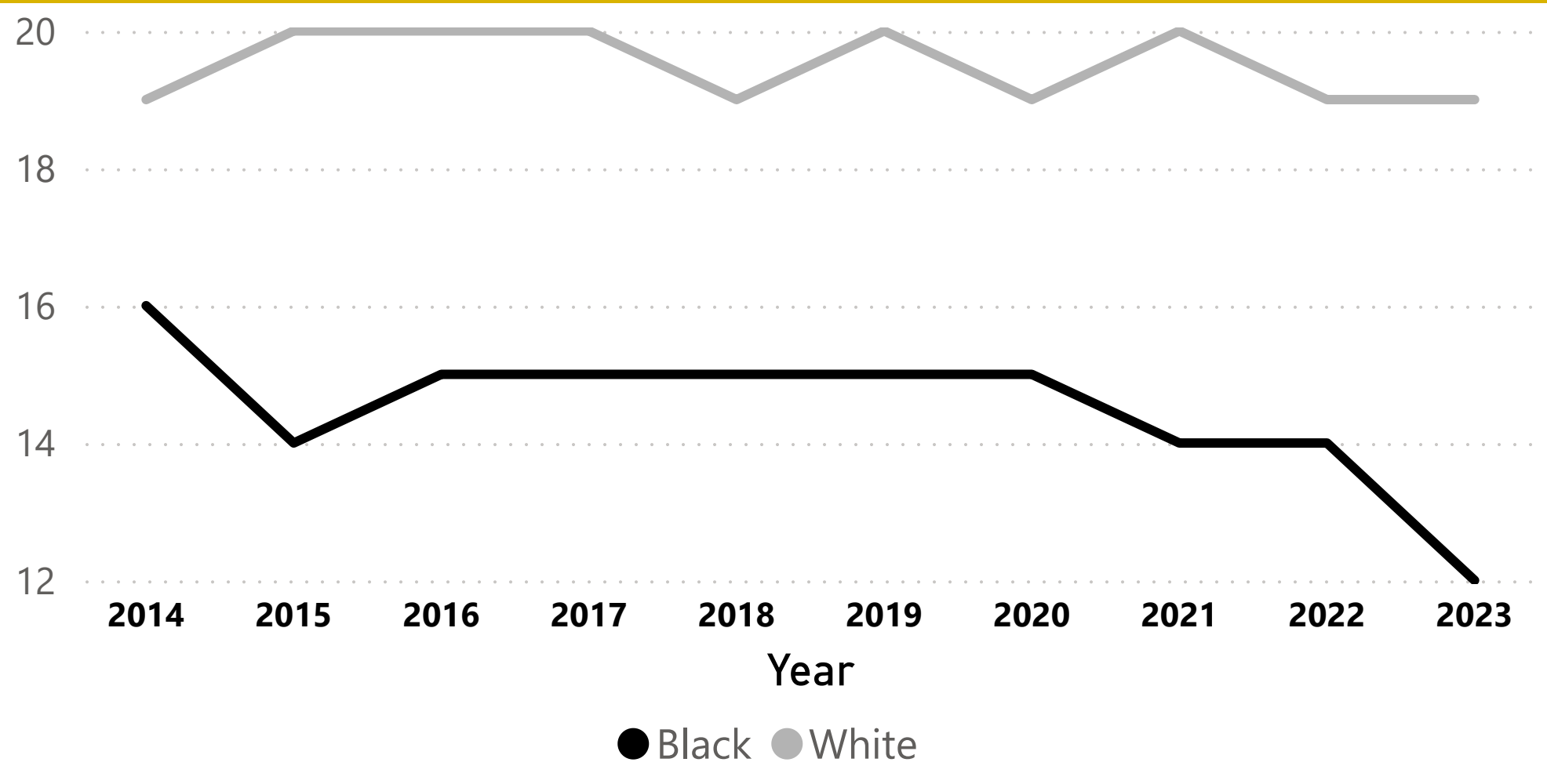
Ranked in the death rate in the US

15

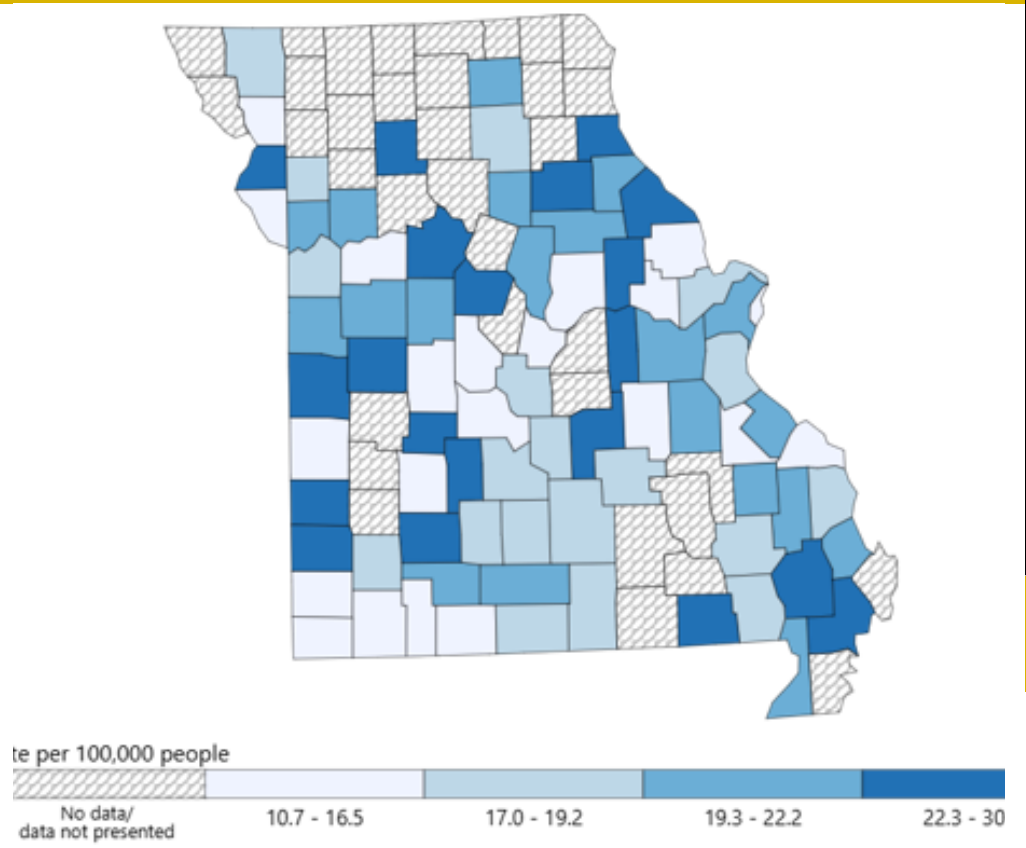
10 year Age-adjusted Incidence rate in Missouri By Sex



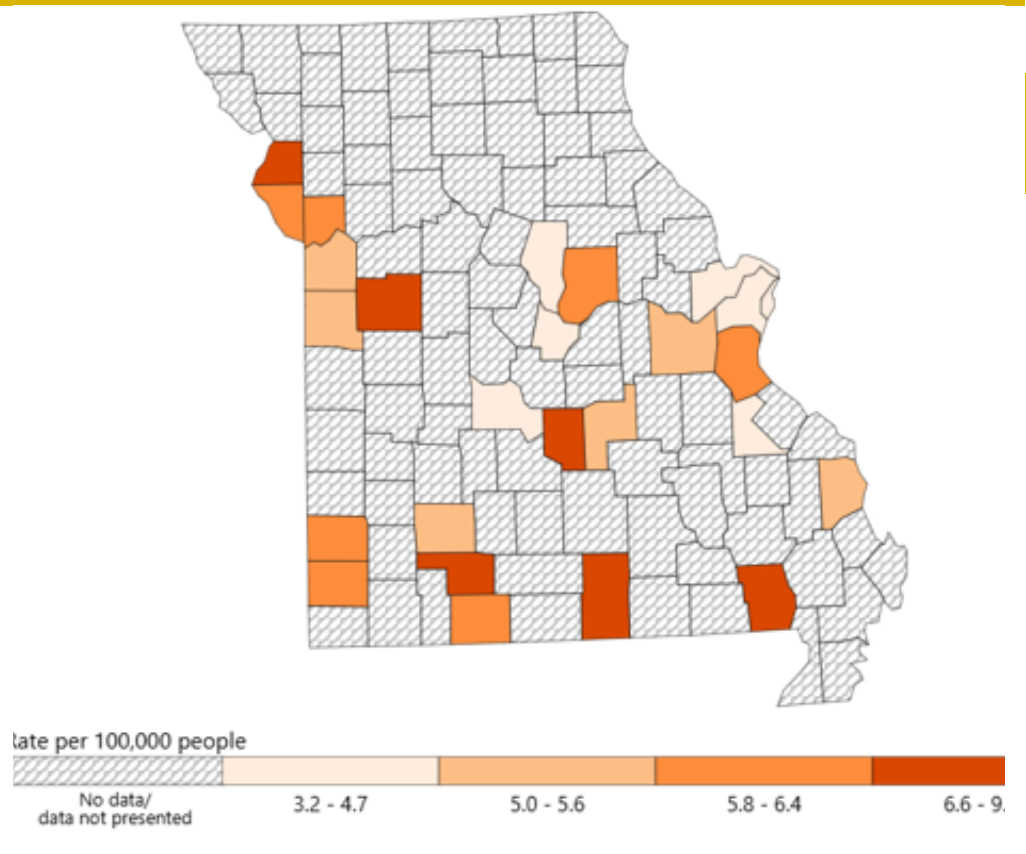
10 year Age-adjusted Incidence rate in Missouri By Race



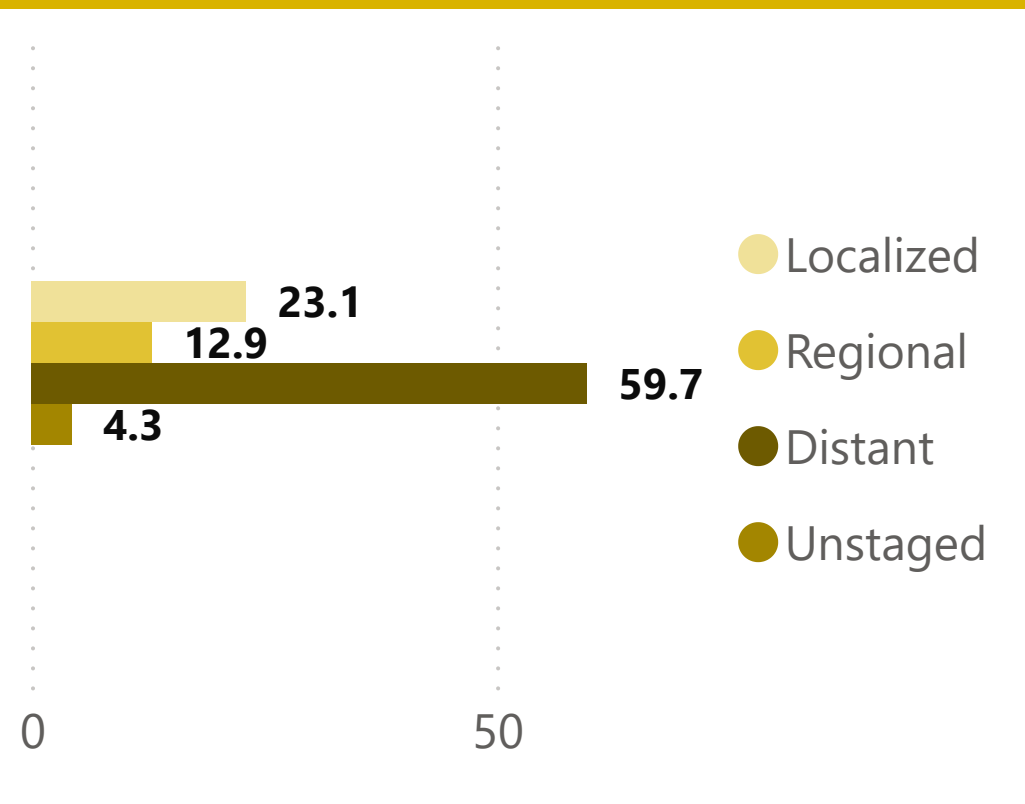
Incidence Rate in Missouri County level 2019-2023



Mortality Rate in Missouri County level 2020 - 2024



%Stage Distribution



Incidence rate 2019-2023

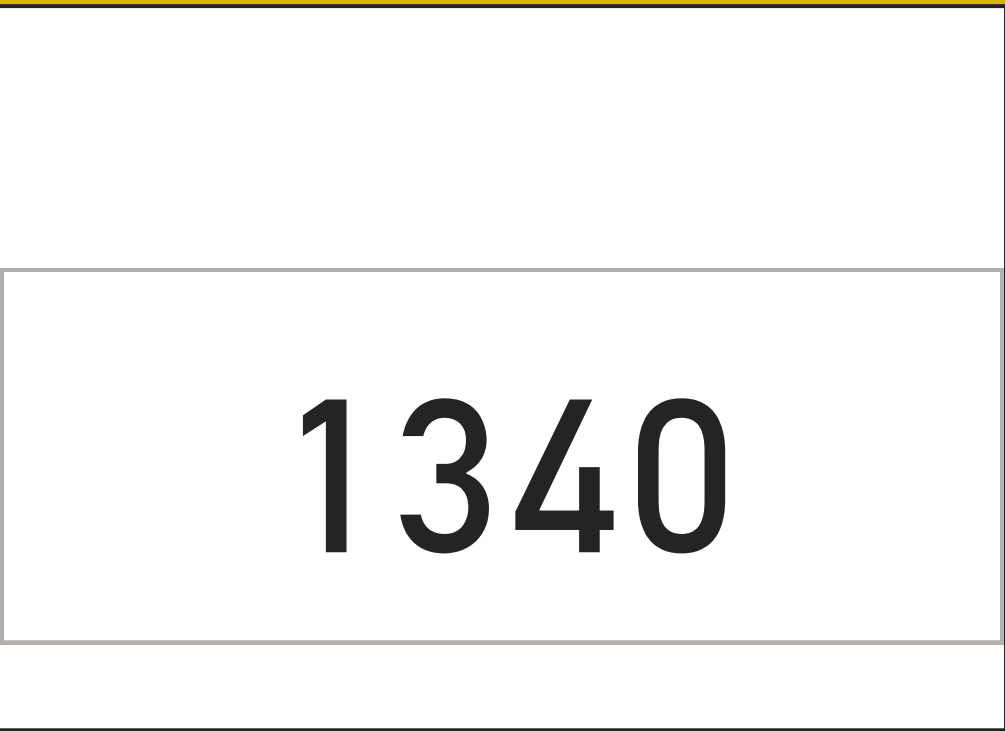
22.90

Incidence rate 2019-2023

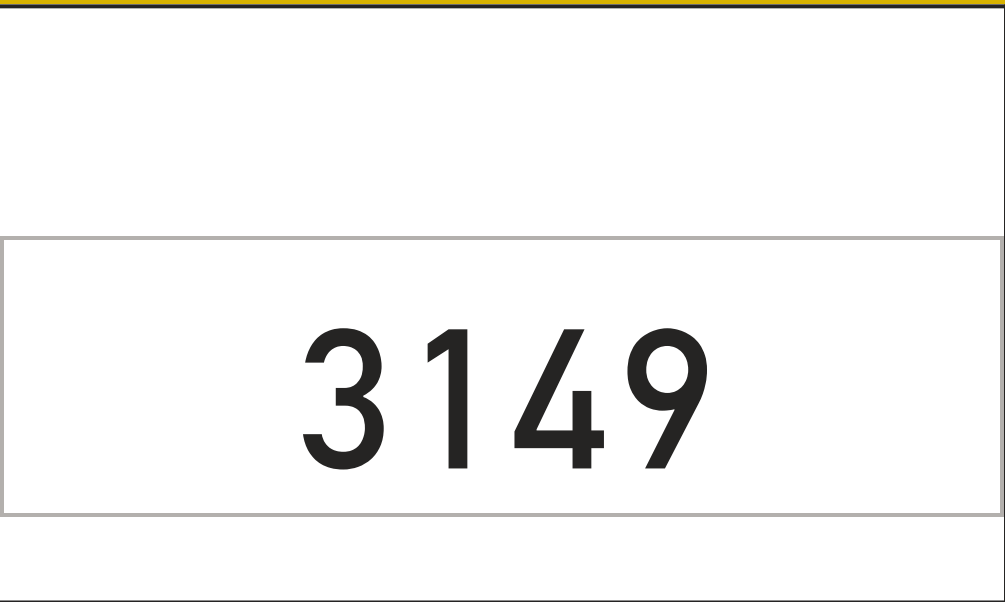
15.50

CERVICAL CANCER IN MISSOURI

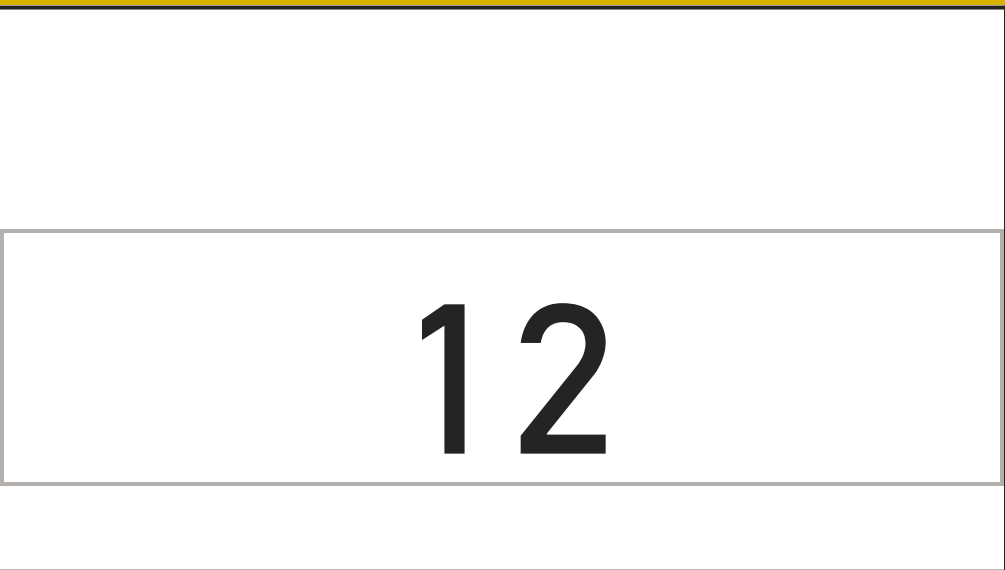
Incidence rate 2019-2023



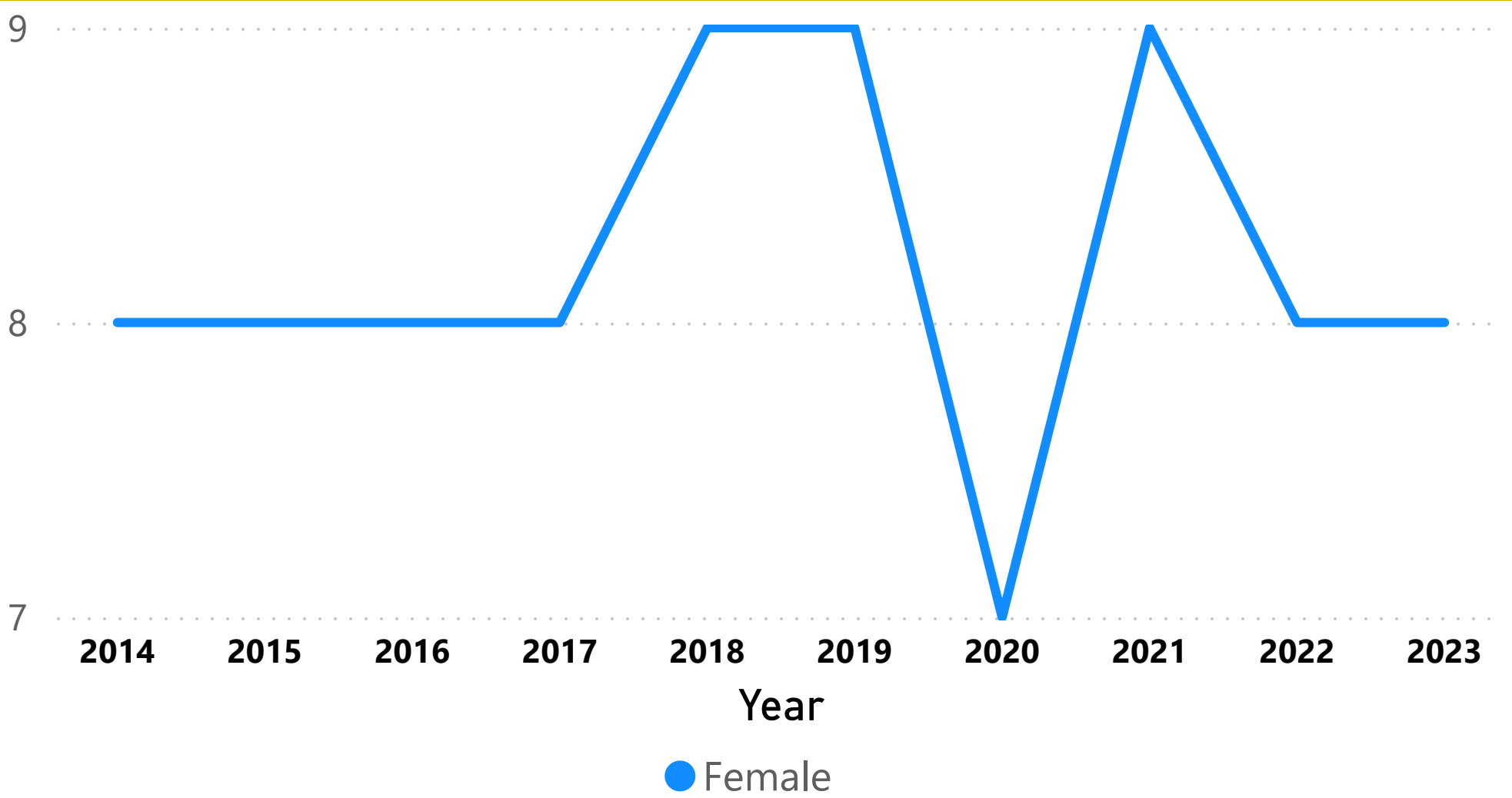
Cervical cancer survivors 2019-2023



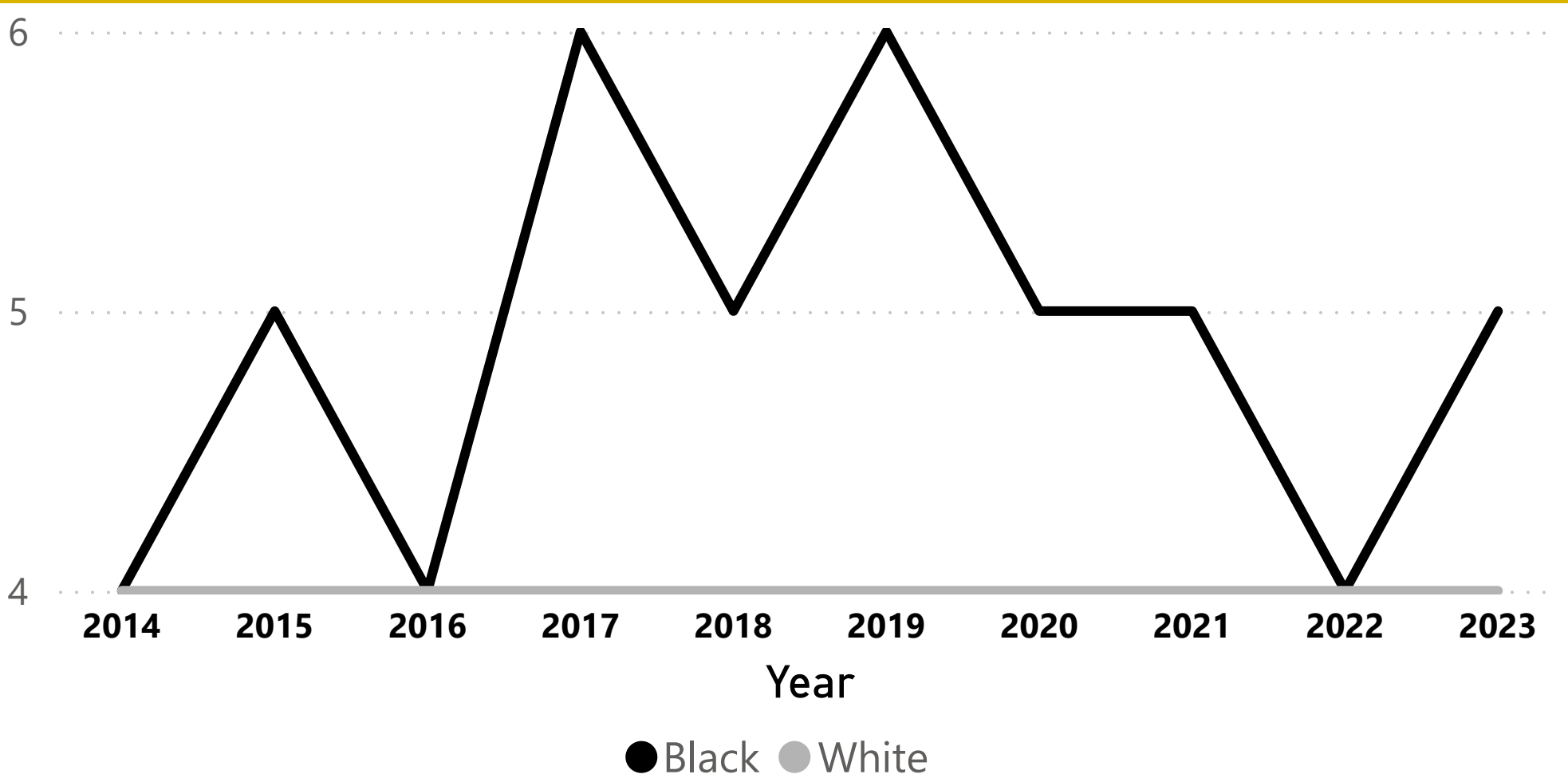
Rank in the death rate in the US



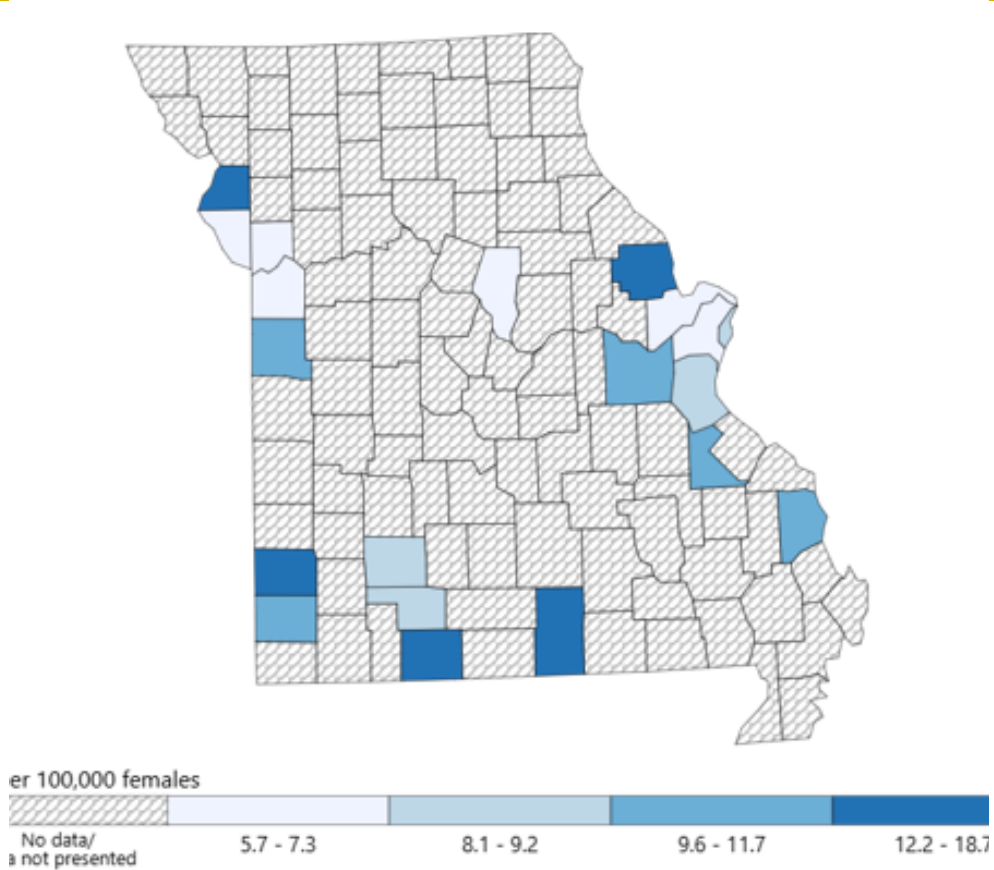
10 year Age-adjusted Incidence rate in Missouri By Sex



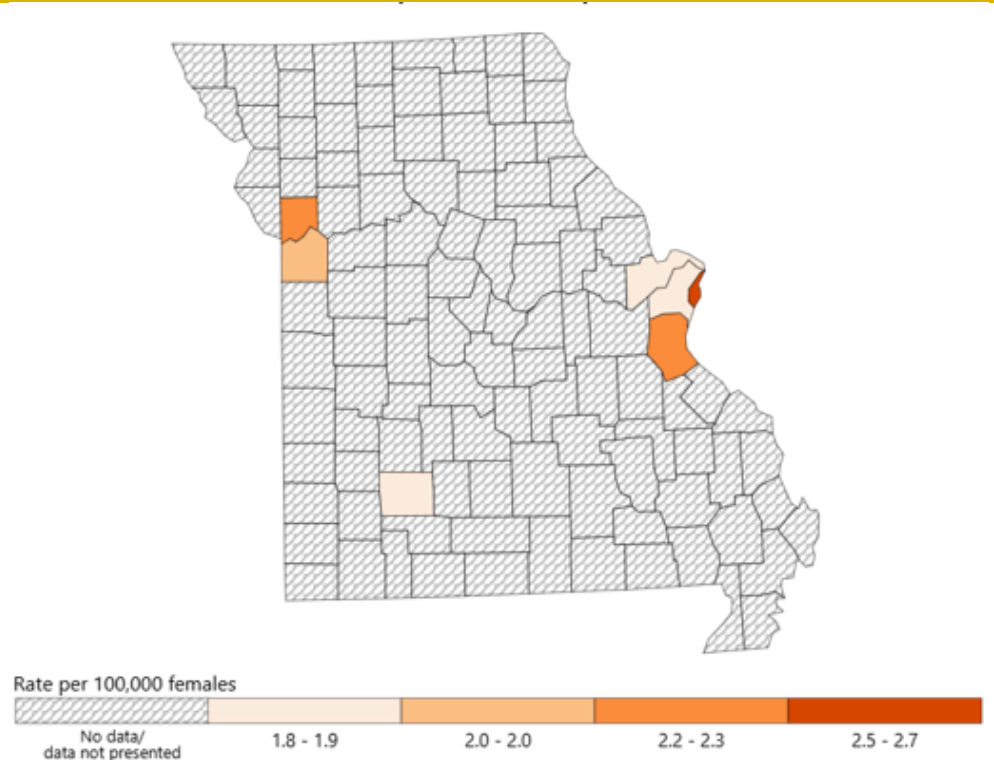
10 year Age-adjusted Incidence rate in Missouri By Race



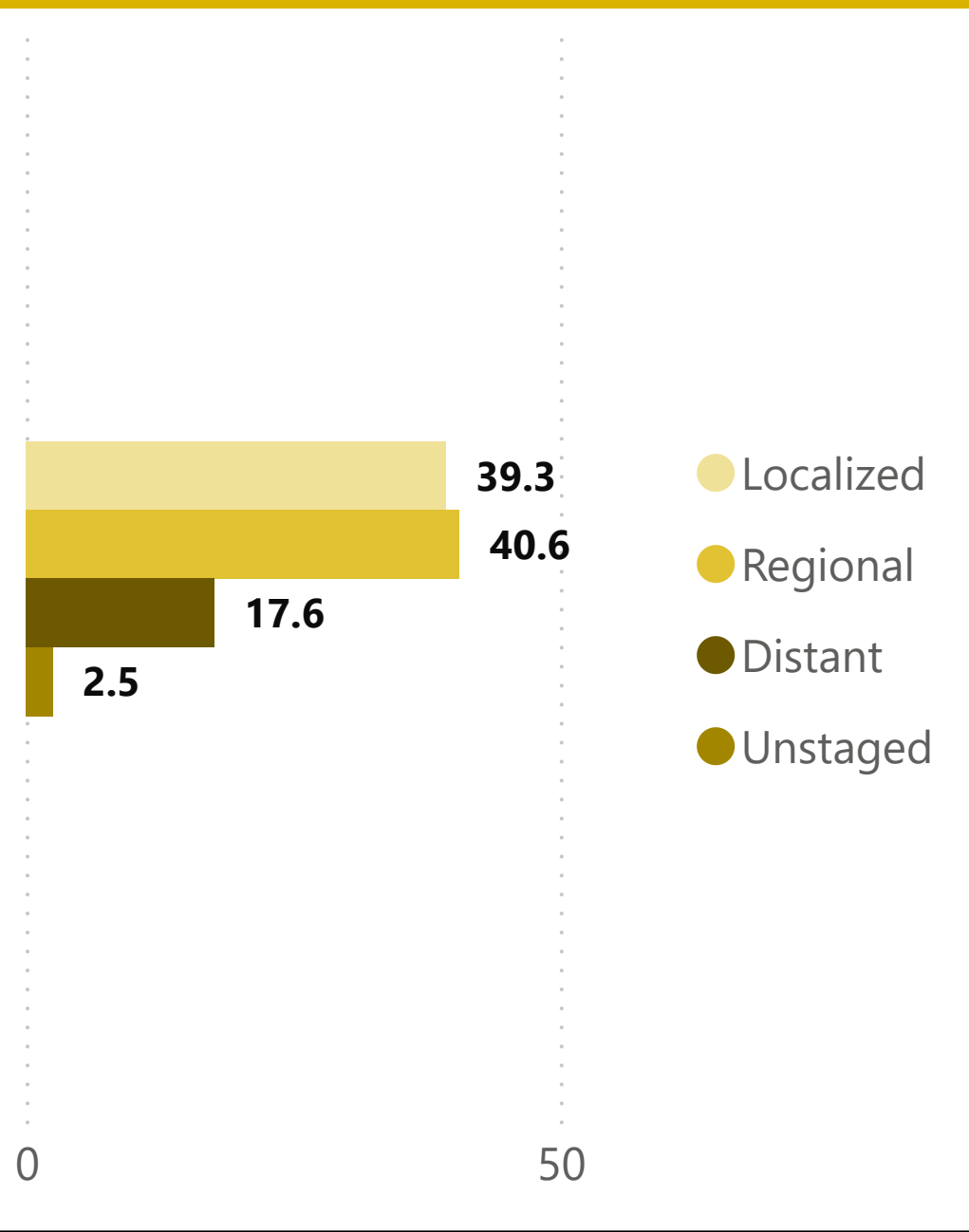
Incidence Rate in Missouri County level 2019-2023



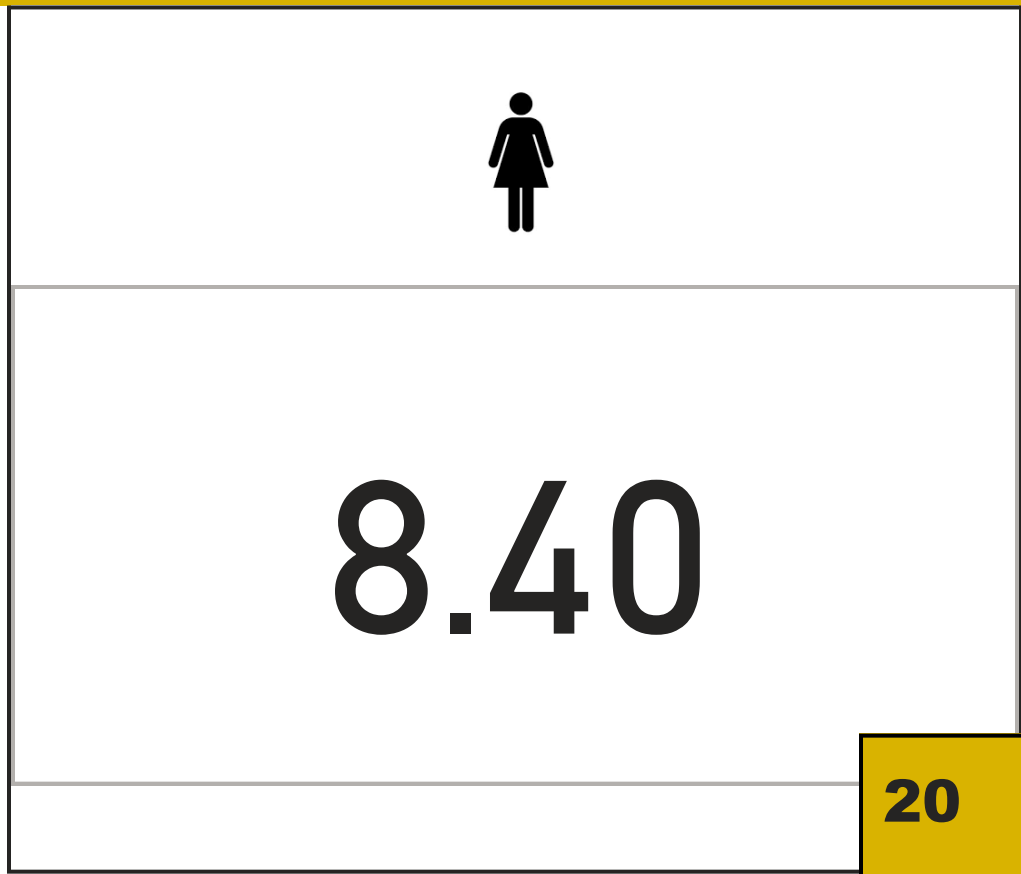
Mortality Rate in Missouri County level 2020 - 2024



%Stage Distribution



Incidence rate 2019-2023



ACCESS OUR MISSOURI STATS

Our One-pagers can be accessed at <https://cancerregistry.missouri.edu/data/missouri-cancer-stats-facts/>

Our Adolescent and Young Adult (AYA) cancer report can be accessed at <https://cancerregistry.missouri.edu/wp-content/uploads/2025/07/AYA-Analysis-FINAL.pdf>

For more information, please visit our website at [Missouri Cancer Registry and Research Center](#).

ACCESS OUR DASHBOARDS

[Cancer In Focus](#)

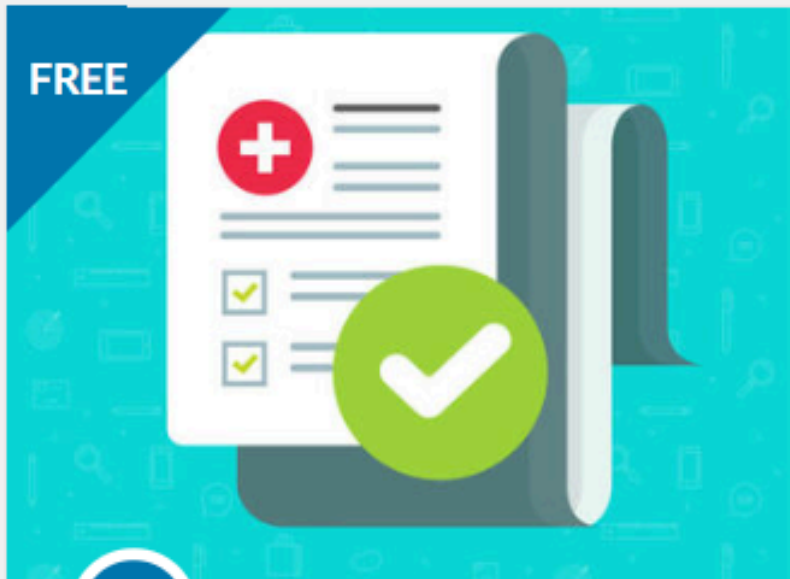
[Health Maps](#)

[Adolescent and Young Adult \(AYA\) Dashboard](#)

[Cancer MICA](#)

ADVANCE YOUR EXPERTISE: BECOME AN ONCOLOGY DATA SPECIALIST (ODS-C)

Missouri Cancer Registry is pleased to offer training and online courses for potential, new, and seasoned cancer registrars.

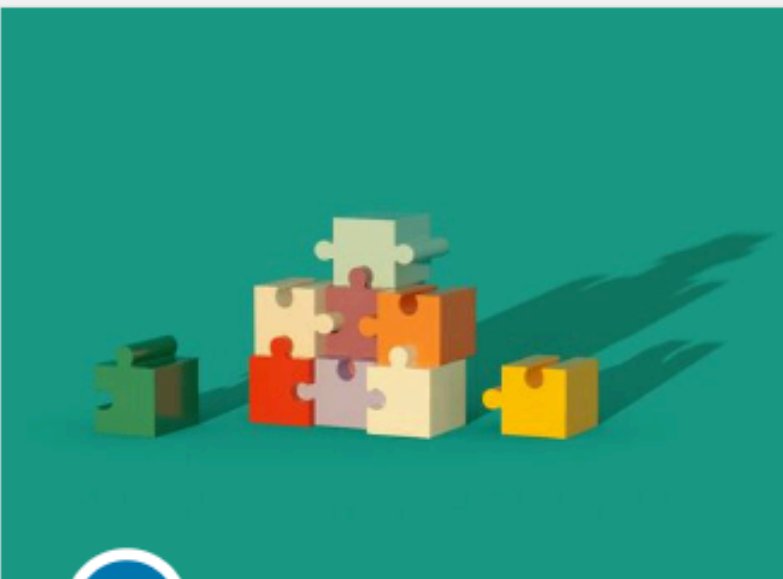


● ● Abstracting for Non-Hospital and Low-Volume Cancer Reporters

"Abstracting for Non-Hospital and Low-Volume Cancer Reporters" course focuses on the unique challenges and requirements of non-hospital cancer and low-volume hospital reporting, ensuring that data collected from...



Self-paced
FREE



● ● FUNDAMENTALS OF ABSTRACTING

This class is for new abstractors who are not familiar with the abstracting process. If you are not familiar with abstracting and/or the required fields, this is a great place to start learning.



Time limit: 90 days
\$50

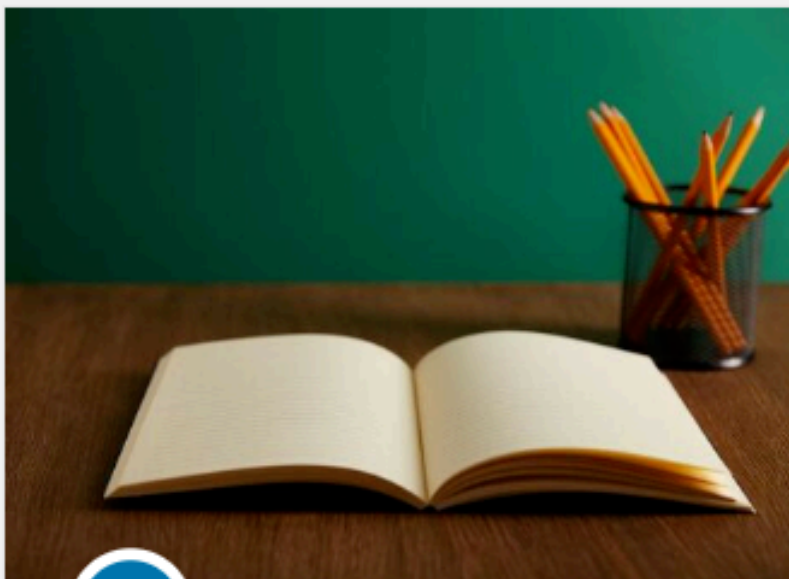


FREE
MCR EDUCATION ODS SHORTS

This collection of short videos is curated to assist with comprehending key responsibilities at the Missouri Cancer Registry, along with offering abstracting tips to prepare for the Certification Examination...



Self-paced
FREE

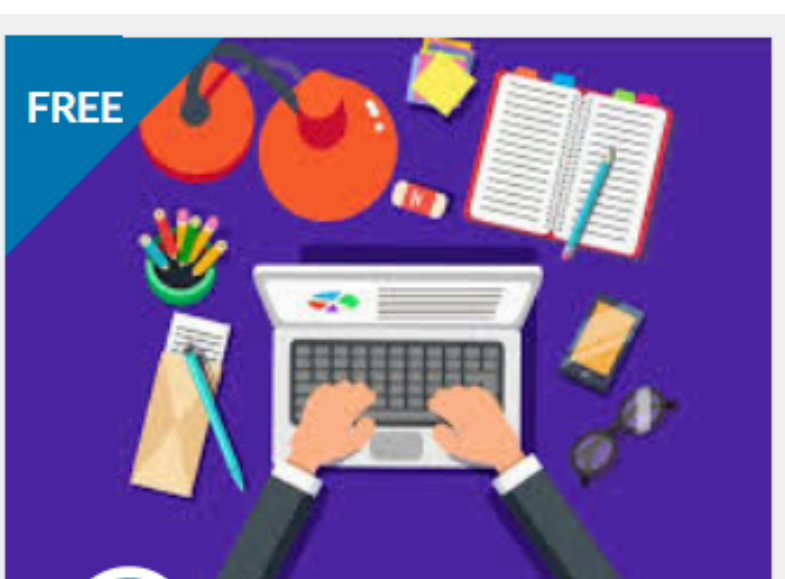


MO Oncology Data Specialist Study Guide Course (MOODS)

The study guide is designed to cover, in summary form, the major content areas of the Certification Examination for Tumor Registrars.



Time limit: 365 days
\$50



● ● Seamless Reporting to MCR

"Seamless Reporting to MCR: Streamlining Data Submission and Compliance" course guides participants through Missouri Cancer Registry's reporting requirements, data submission processes, and compliance...



Self-paced
FREE



CONTACT

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1095 Hospital Drive
Columbia, MO 65211

TELEPHONE

Main office: 573-882-7775

MCR staff will be available Monday thru Friday, from 8:00a.m to 3:00pm., to answer questions at 537-882-7775.

Fax: 573-884-9655

REFERENCES

- 1) [Centers for Disease Control and Prevention](#)
- 2) [*Cancer registry Management, Fourth Edition 2021*](#)
- 3) [Missouri Cancer Registry](#)
- 4) [Missouri Department for health and Senior Services](#)
- 5) [Behavioral Risk Factor Surveillance System](#)
- 6) [North American Association of Central Cancer Registries \(NAACCR\)](#)
- 7) [National Program of Cancer Registries \(NPCR\)](#)
- 8) [University of Missouri](#)

Visualizations are from:

- 1) [Missouri Cancer Registry](#)
- 2) [CiNA Explorer](#)
- 3) [USCS Data Visualization](#)
- 4) [State Cancer profiles](#)
- 5) [MICA](#)

