



# Vermont Cancer Data Pages

Department of Health Statistics and Informatics  
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# Populations of Focus

The Vermont Department of Health (VDH) recognizes that some individuals are more likely to be affected by cancer than others due to social, environmental and economic disadvantages.

The Vermont Comprehensive Cancer Control Program has chosen **five populations of focus** to track to assess disparities in health behaviors and outcomes.

- **Black, Indigenous and people of color (BIPOC):** Individuals who self-identified that they were of Hispanic, Latino/a, or Spanish origin, and/or responded that their race is one or more of the following: Black or African American, American Indian and/or Alaska Native, Asian, Pacific Islander.
- **Lesbian, gay, bisexual, transgender and queer (LGBTQ+) Vermonters:** Data sources only ask respondents to self-identify if they are lesbian, gay, bisexual and/or transgender. To best represent the available data therefore, we use **LGBT** when discussing findings from these data sources, while also acknowledging that these data do not fully represent the LGBTQ+ community.
- **Vermonters living with disabilities:** Individuals who self-identified as having one or more of the following conditions: sight impairment, being deaf or having serious difficulty hearing, difficulty walking, difficulty making decisions, difficulty doing errands alone, difficulty getting dressed alone.
- **Low-income Vermonters:** Individuals who have a household income that is 250% or less of the federal poverty limit.
- **Rural Vermonters:** Individuals who live in an area designated as “rural” by the [Rural-Urban Commuting Area \(RUCA\) Classification C.](#)

# Introduction

Cancer is a group of more than 100 different diseases that often develop gradually as the result of a complex mix of lifestyle, environmental, social and genetic factors.

Note: Throughout this report, data comparisons presented as “higher,” “lower,” “larger,” “smaller,” “better,” “worse,” or as “significantly different” are **all considered statistically significant differences**. Statistical significance is assessed by comparing the confidence intervals of different groups.

Positive statistically significant results are sometimes called out with a star symbol:



Negative statistically significant results are sometimes called out with a warning symbol:



# Chapter 1: Risk Factors and Prevention

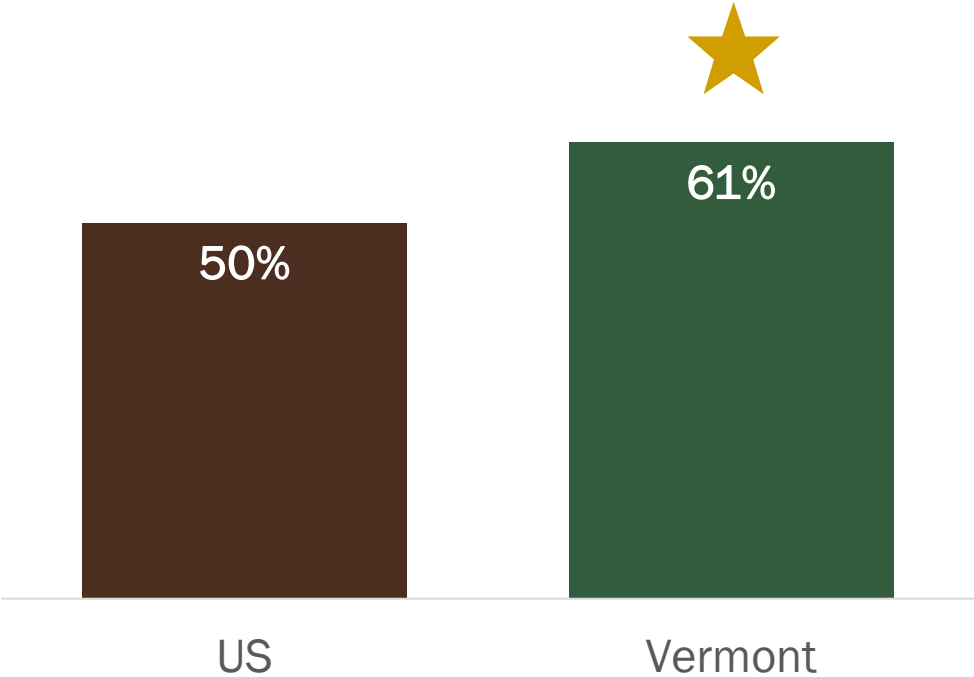
# Introduction: Risk Factors and Prevention

People are at higher risk for certain cancers due both to factors related to personal behaviors such as: diet, physical inactivity, tobacco use, alcohol use, and overexposure to sunlight; and to social determinants of health such as race/ethnicity, income-level, disability status, area of residence, and sexual identity and orientation.

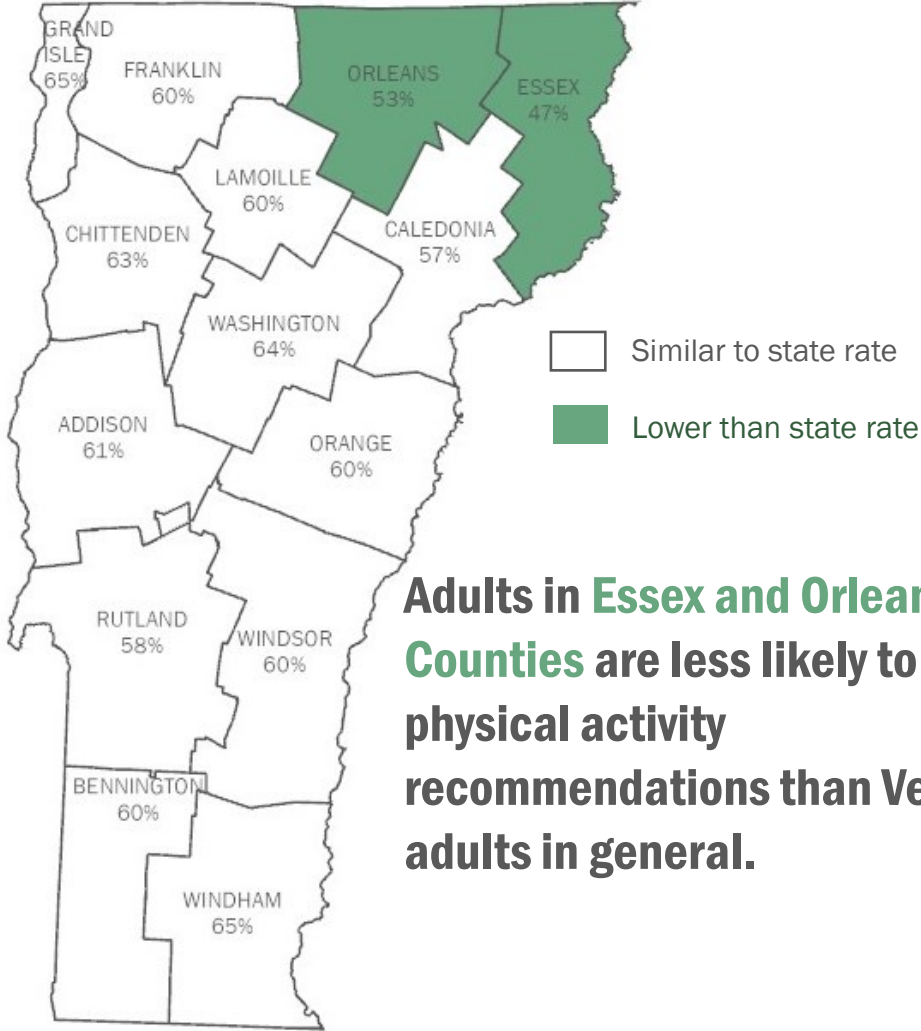
This chapter of the *Vermont Cancer Data Pages*, Risk Factors and Prevention, explores the personal behaviors of Vermonters that are known to increase or decrease the risk of developing cancer.

# Physical Activity

Vermont adults are more likely to meet physical activity recommendations than the US population.



Vermont Department of Health Source: BRFSS 2019



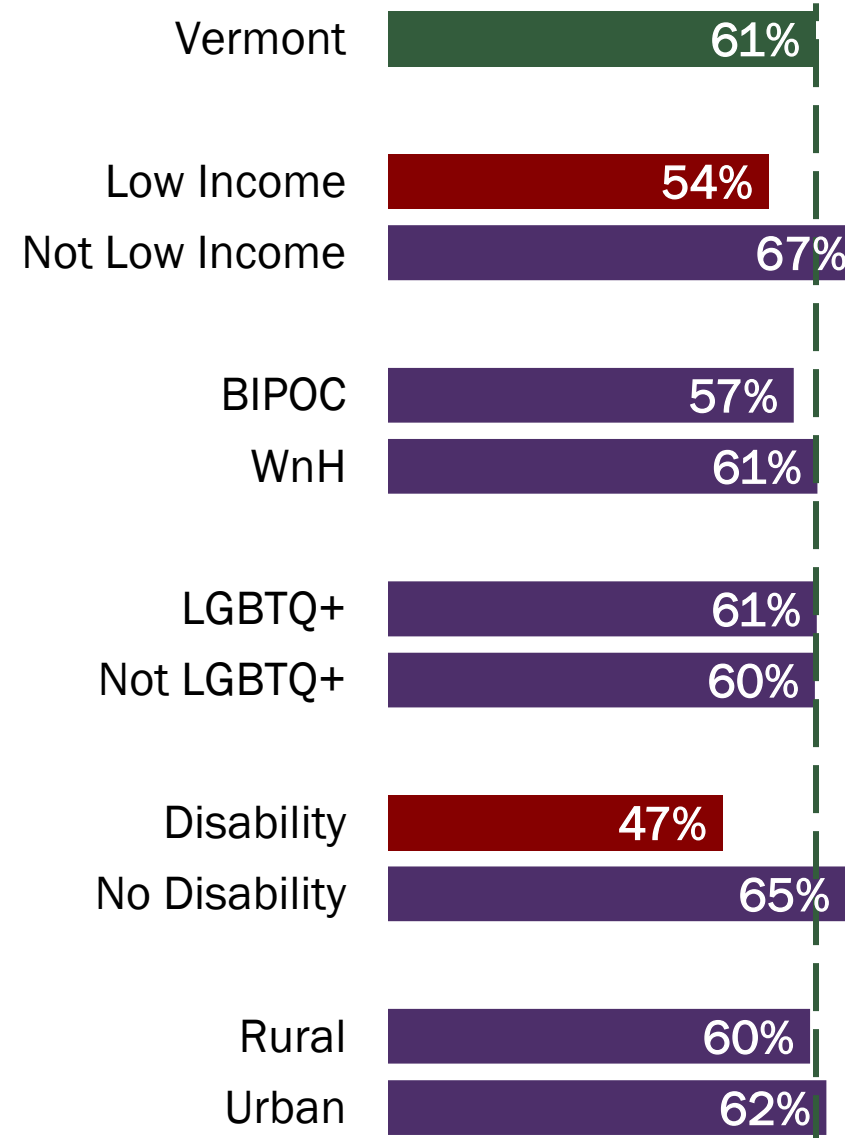
Adults in **Essex and Orleans Counties** are less likely to meet physical activity recommendations than Vermont adults in general.

Vermont Department of Health Source: BRFSS 2017 and 2019

# Physical Activity

**Adults with a low income and those with a disability meet physical activity recommendations less than a group of comparison.**

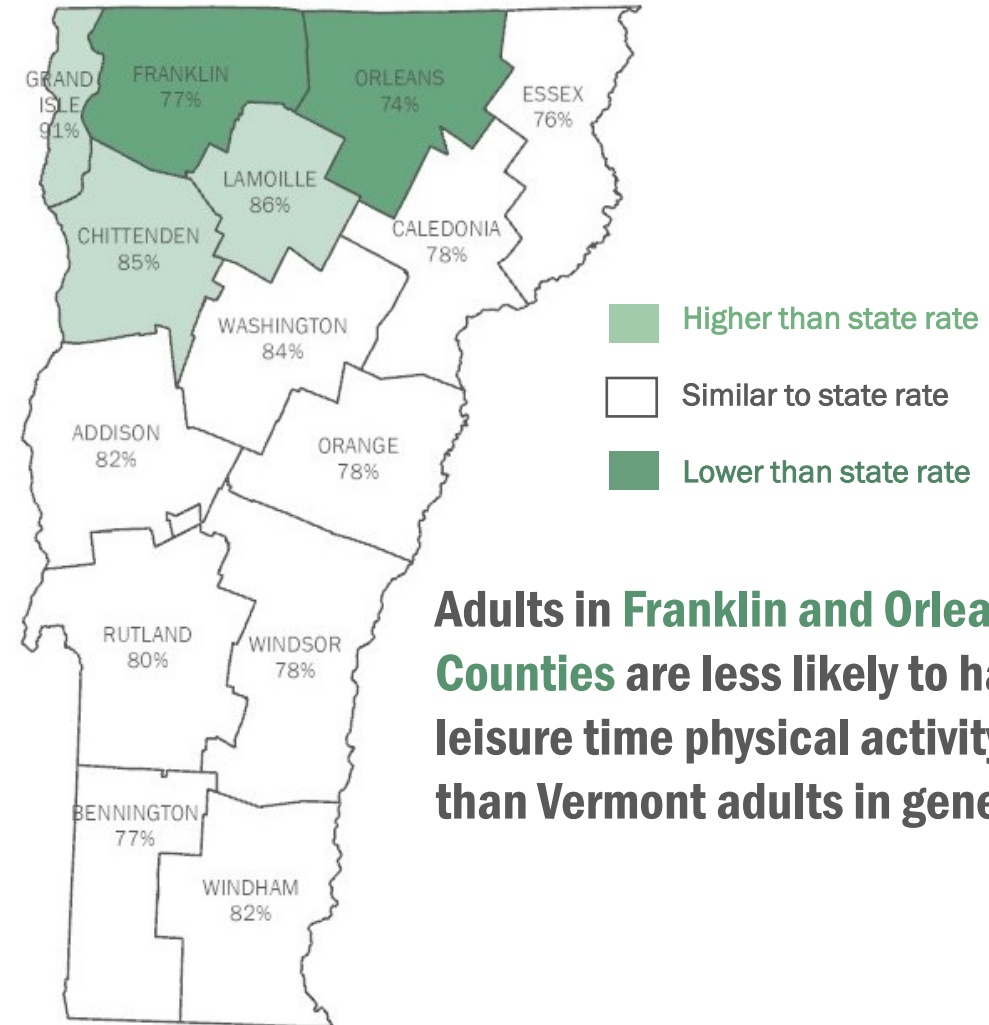
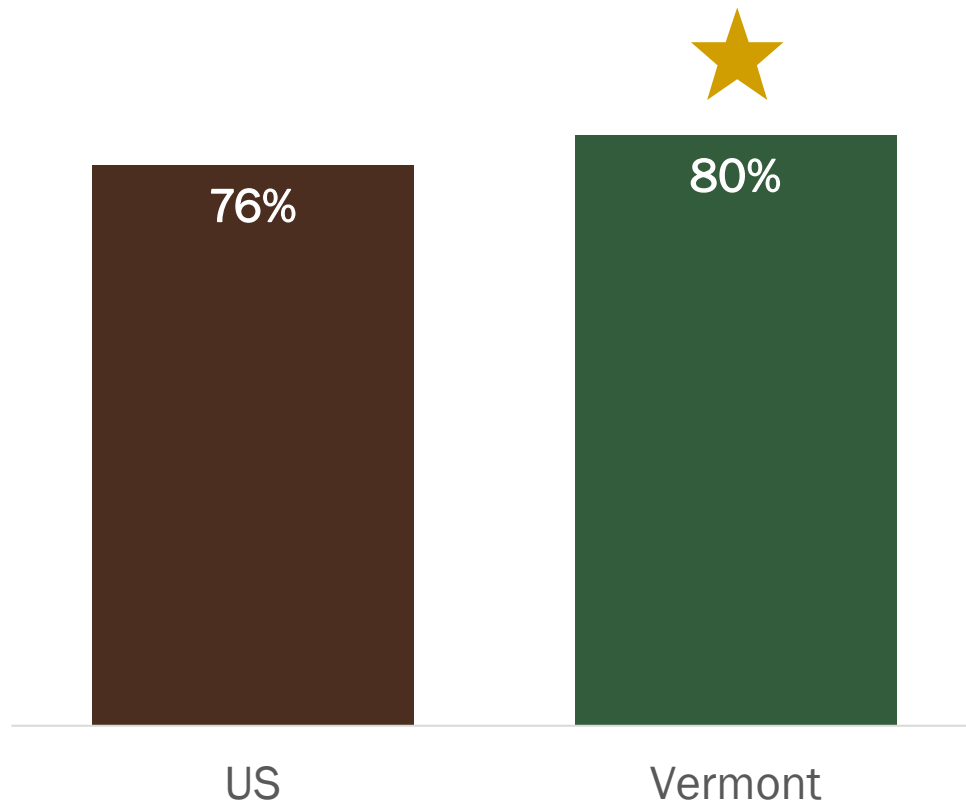
All other groups have similar rates to a group of comparison.





# Leisure Time Physical Activity

Vermont adults are more likely to participate in leisure time physical activity than the US population.

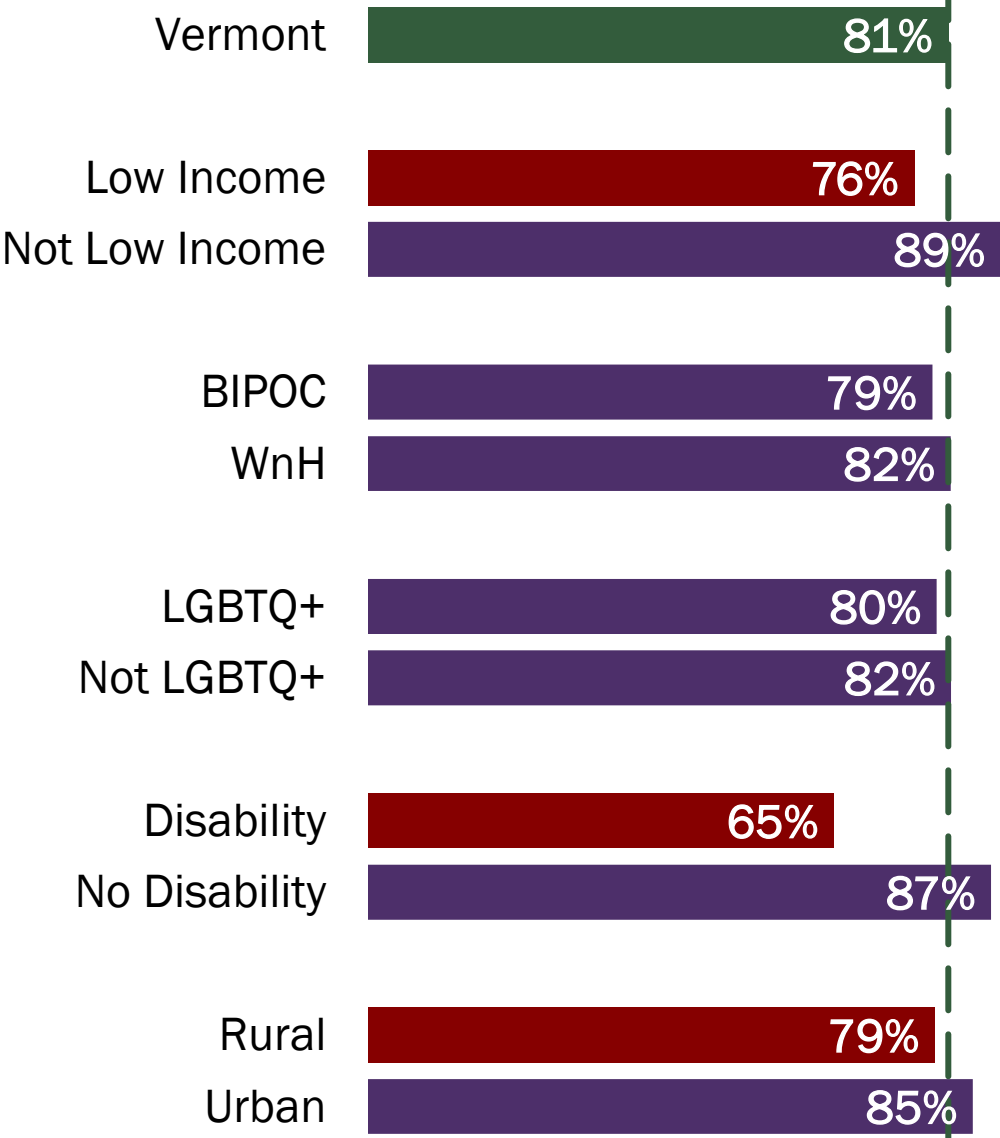


Adults in **Franklin and Orleans Counties** are less likely to have leisure time physical activity than Vermont adults in general.

# Leisure Time Physical Activity

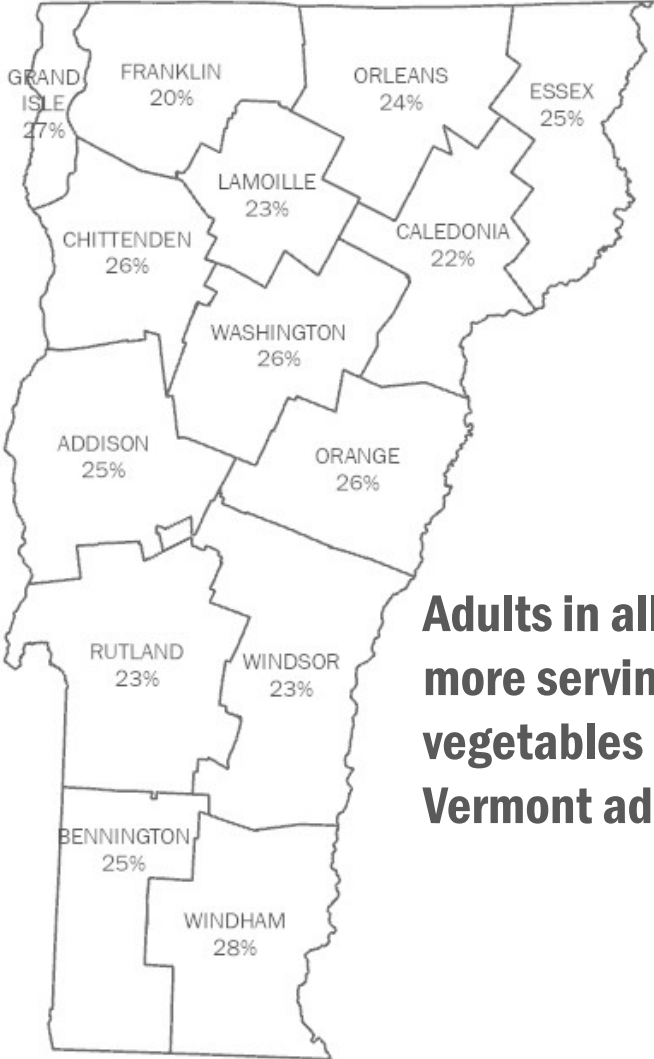
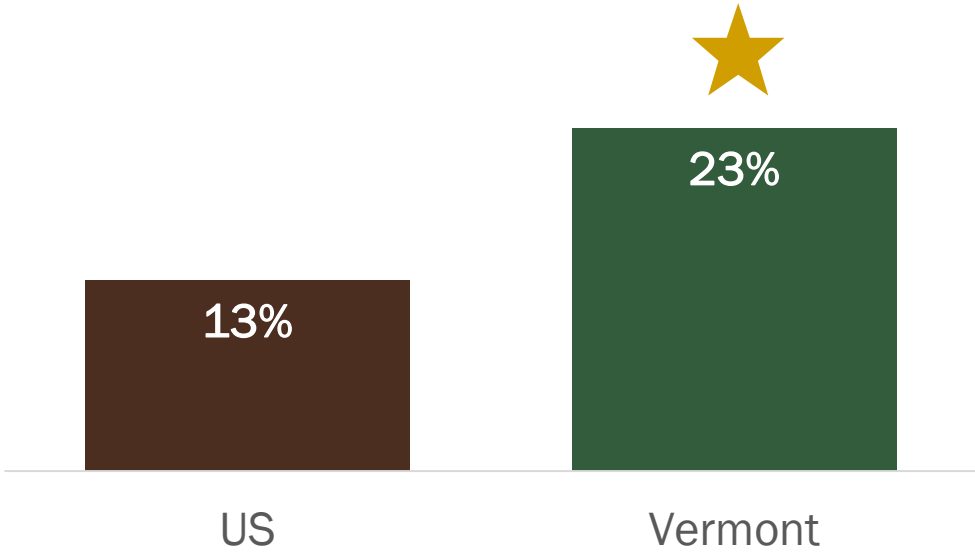
**Adults with a low income, those with a disability and those living in rural areas have leisure time physical activity less than a group of comparison.**

All other groups have similar rates to a group of comparison.



# Eat at Least Five Servings of Fruits and Vegetables

**Vermont adults** eat at least five servings of fruits and vegetables more than the **U.S. population**.

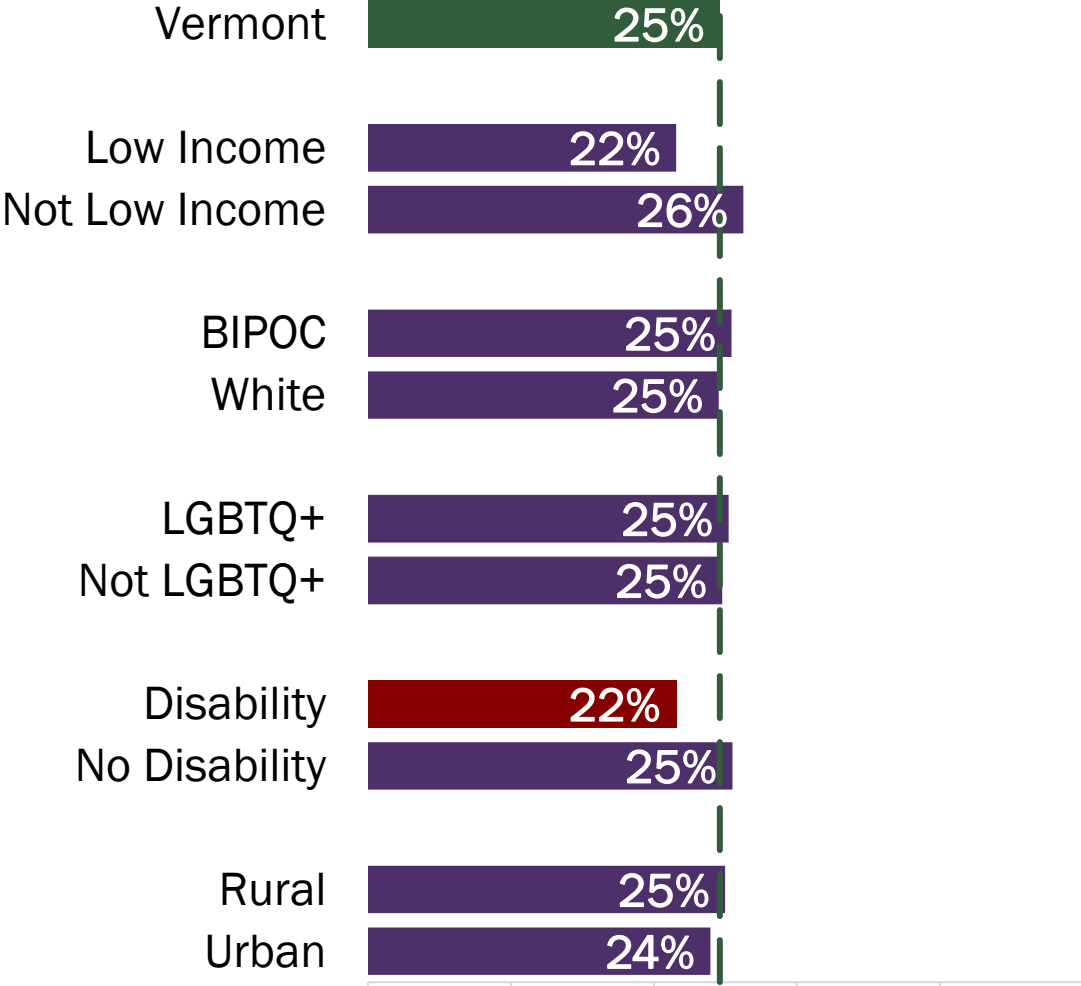


**Adults in all counties eat five or more servings of fruits and vegetables at a rate similar to Vermont adults in general.**

# Eat at Least Five Servings of Fruits and Vegetables

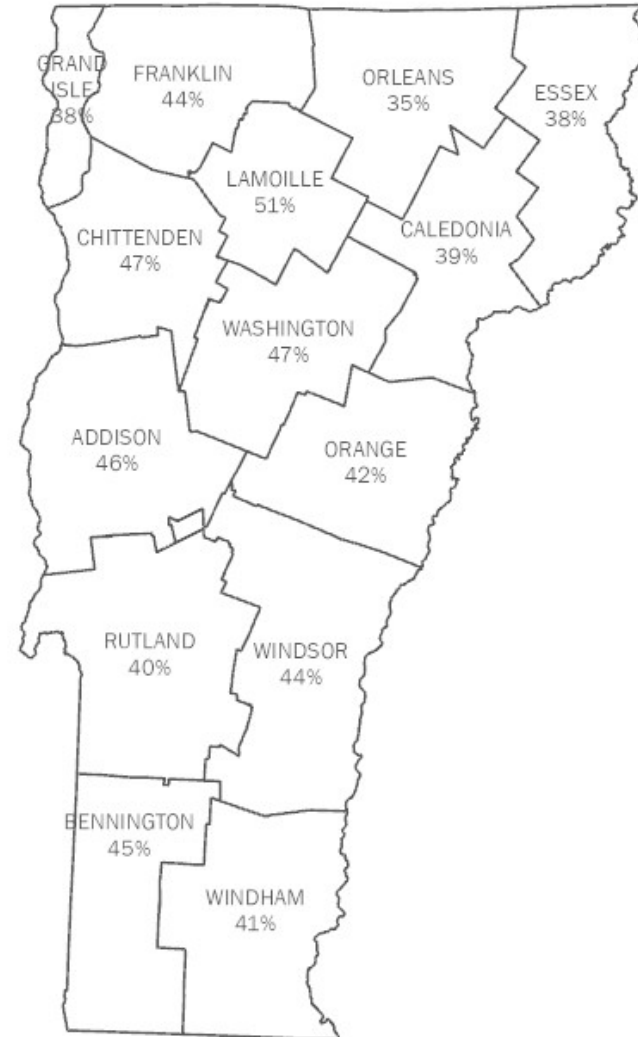
**Adults with a disability** eat at least 5 servings of fruits and vegetables less than Vermonters without a disability.

All other groups have similar rates to a group of comparison.



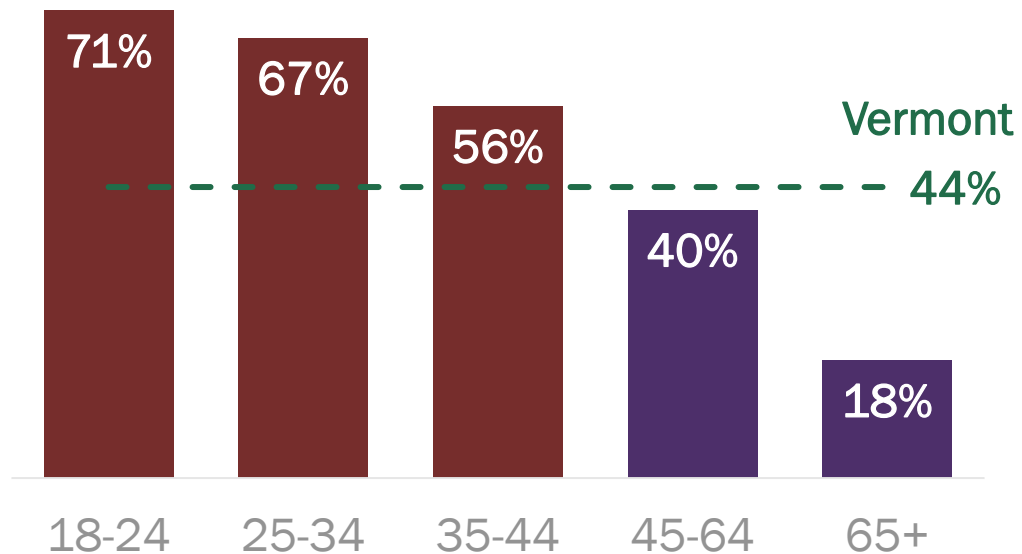
# Sunburns: Adults

**The % of Vermonters that had a sunburn in the past year in each county is like that of Vermont as a whole.**



# 1+ Sunburns: Adults

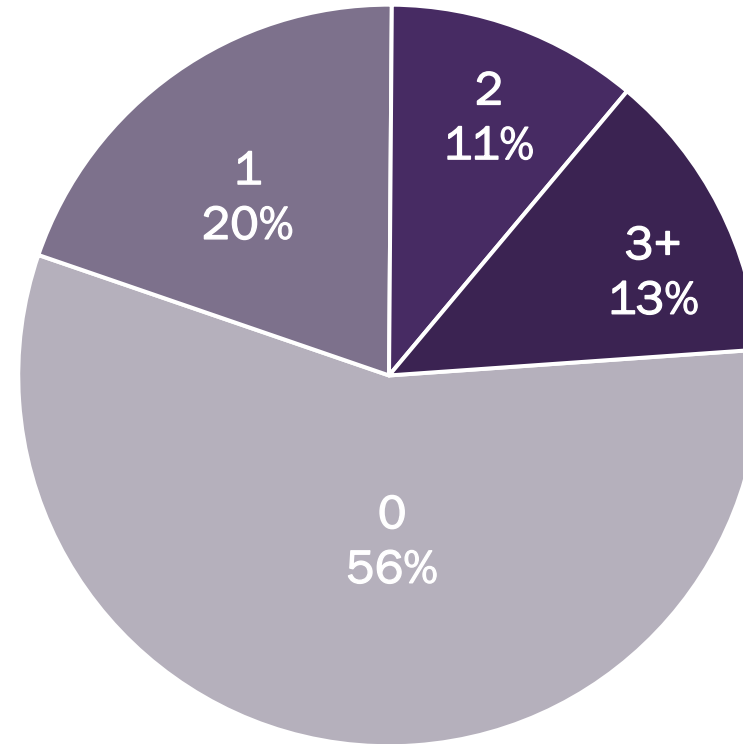
Vermonters **ages 18-44** are more likely to have had a sunburn in the past year than Vermont adults in general.



Vermont Department of Health Source: BRFSS 2019

# Number of Sunburns: Adults

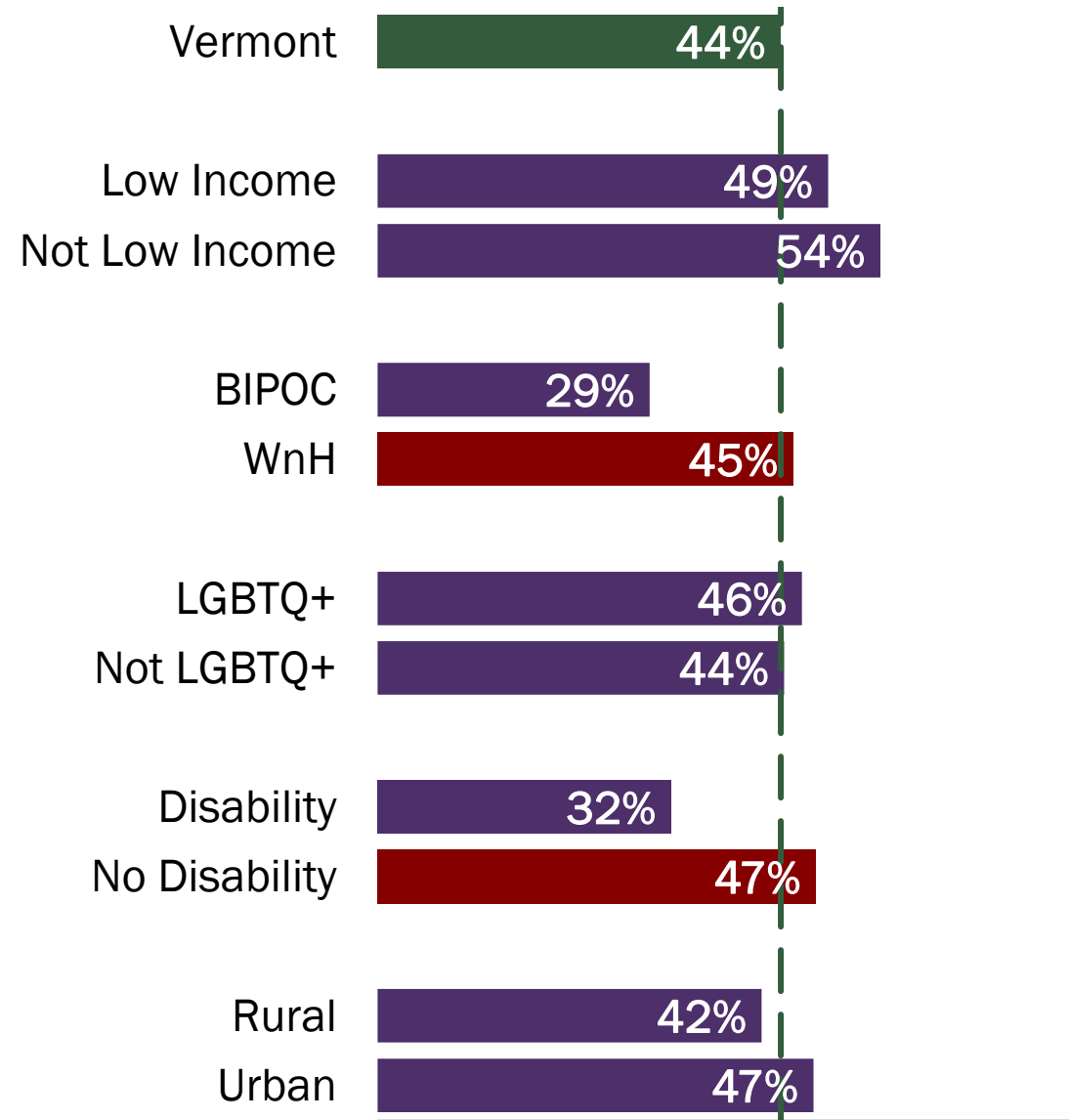
24% of Vermont adults have had 2 or more sunburns in the past year.



# Sunburns: Adults

**White, non-Hispanic adults and those without a disability are more likely to have had at least one sunburn in a prior year than a group of comparison.**

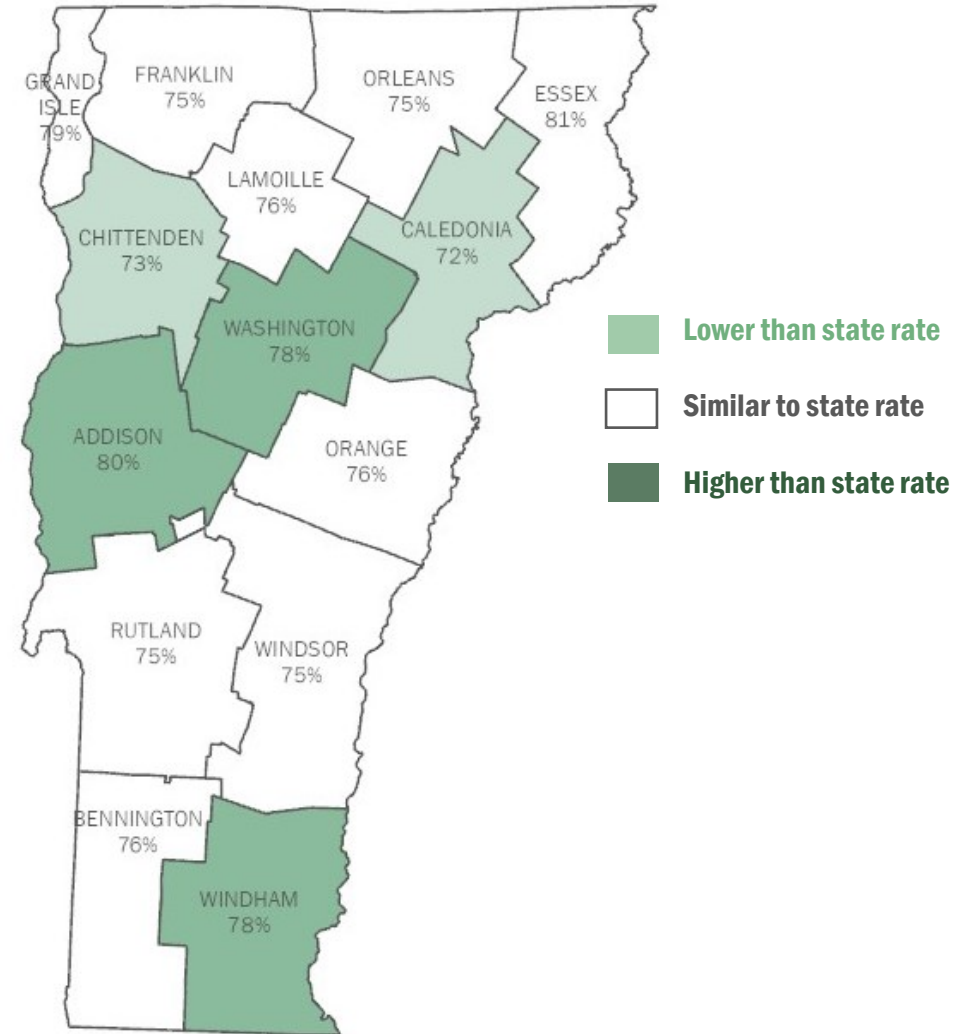
All other groups have similar rates to a group of comparison.



# Sunburns: High School

High school students in **Addison, Washington and Windham Counties** are more likely to have had a sunburn in the past year than high school students in general.

Those in **Caledonia and Chittenden Counties** are less likely to have had a sunburn.

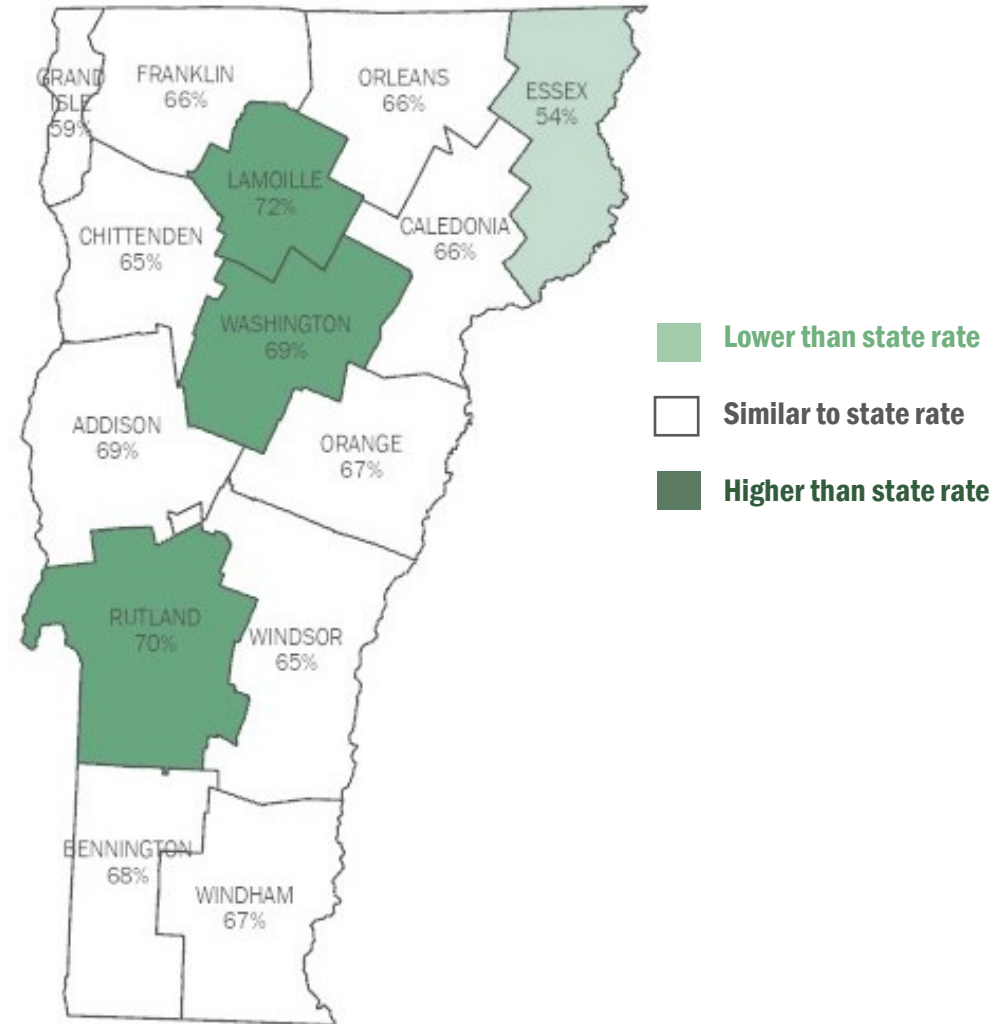




# Sunburns: Middle School

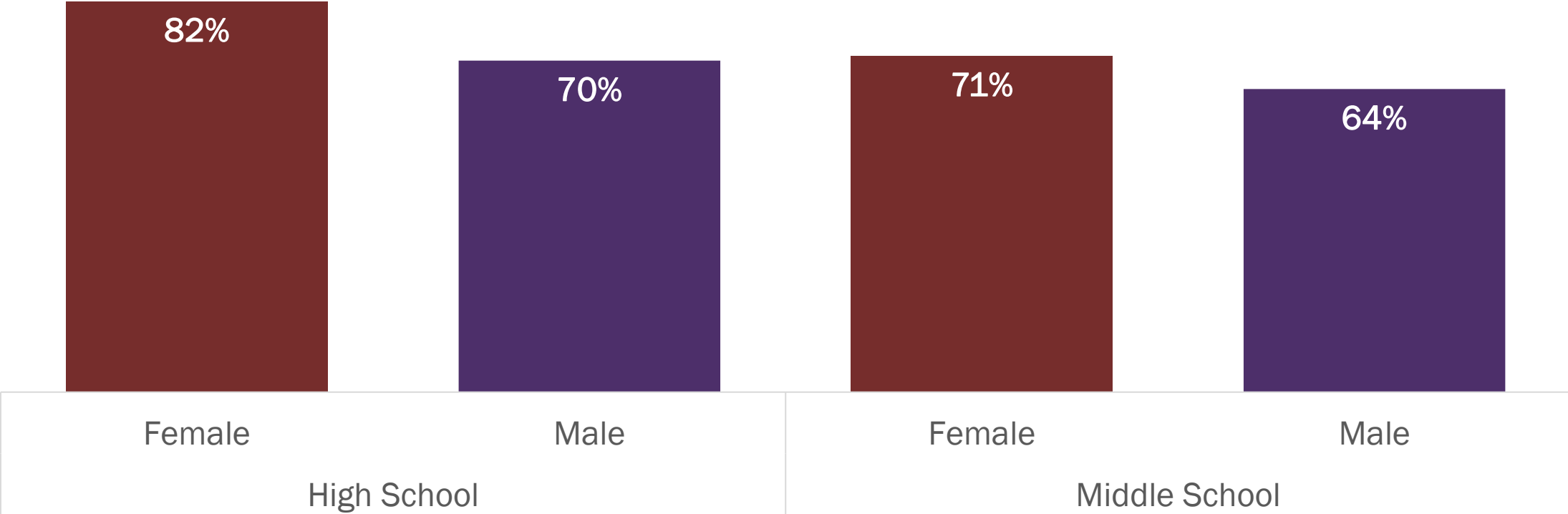
Middle school students in **Lamoille, Rutland and Washington Counties** are more likely to have had a sunburn in the past year than middle school students in general.

Those in **Essex County** are less likely to have had a sunburn.



# One or More Sunburns: High School and Middle School

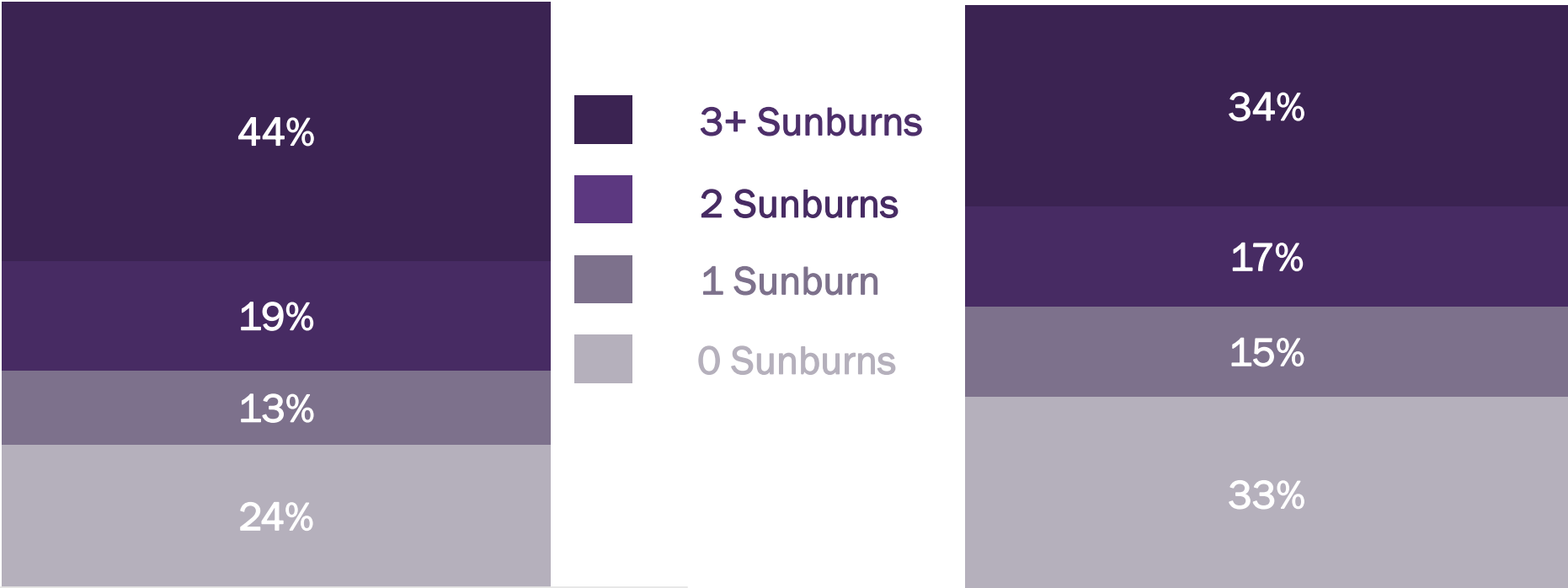
**Female students in both high school and middle school** were more likely to have had a sunburn in the past year than **male students**.



# Number of Sunburns: High School and Middle School

63% of high school students had 2 or more sunburns in the past year.

51% of middle school students had 2 or more sunburns in the past year.



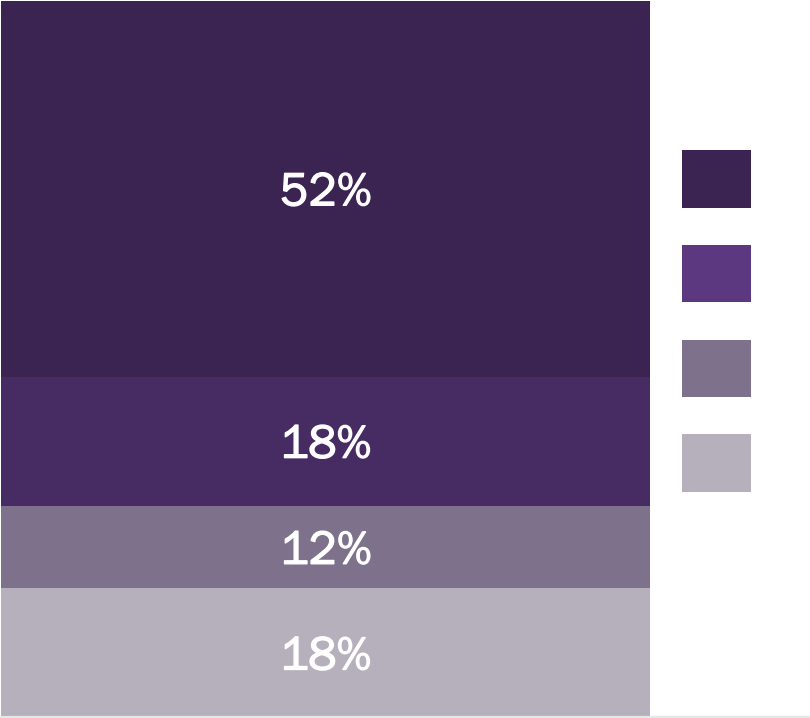
High School Students

Middle School Students

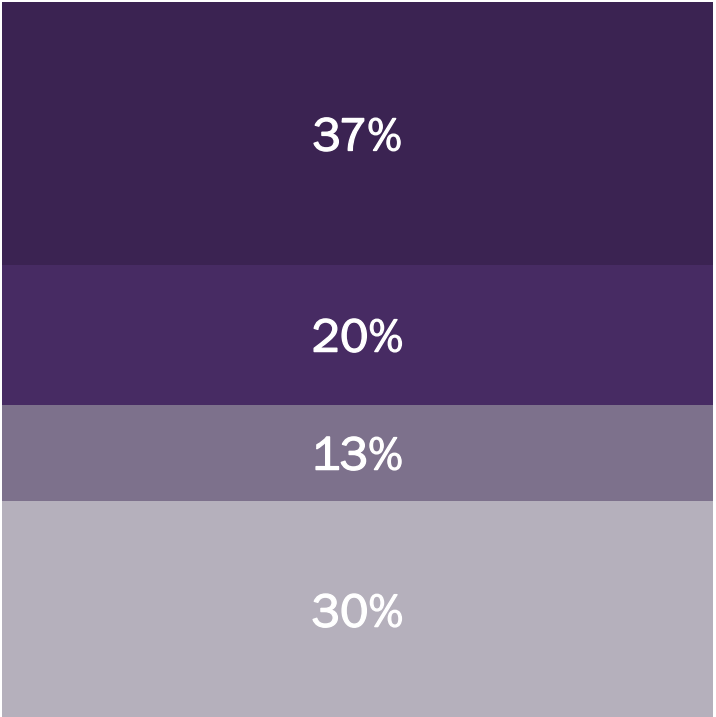
# Number of Sunburns: High School

70% of female high school students had 2 or more sunburns in the past year.

57% of male high school students had 2 or more sunburns in the past year.



Female Students

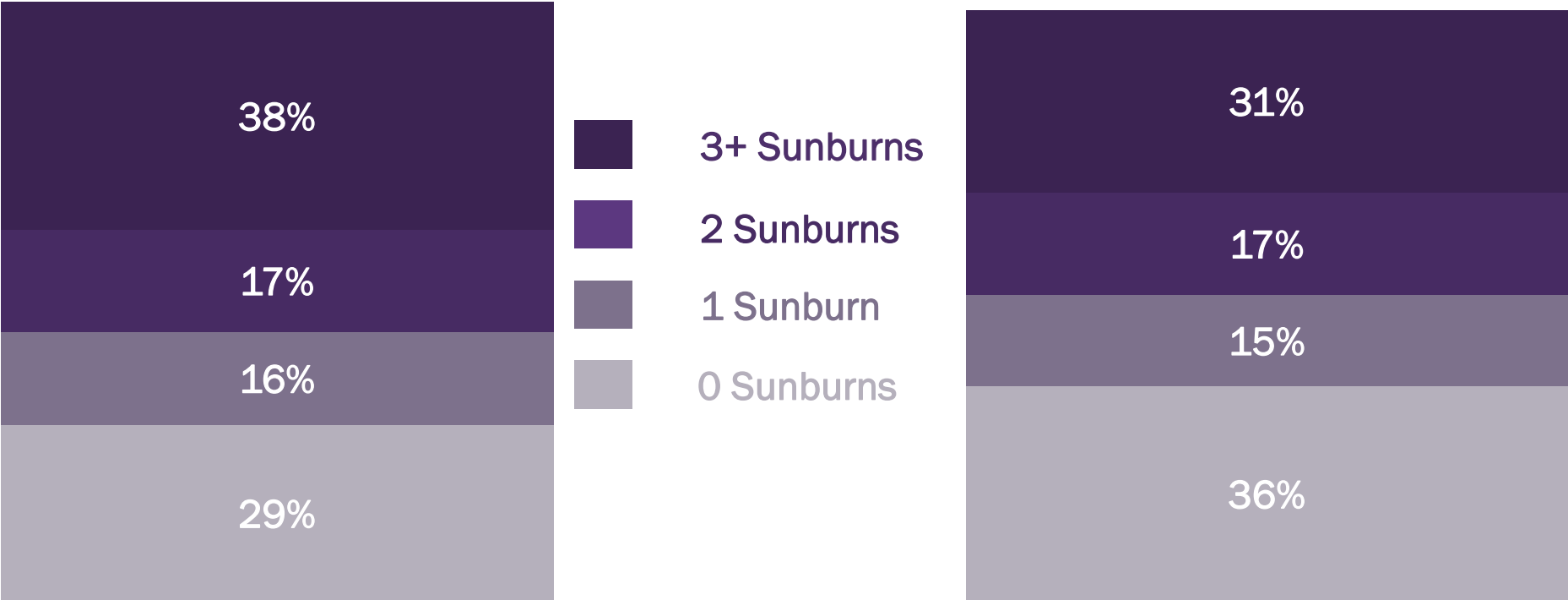


Male Students

# Number of Sunburns: Middle School

55% of female middle school students had 2 or more sunburns in the past year.

48% of male middle school students had 2 or more sunburns in the past year.

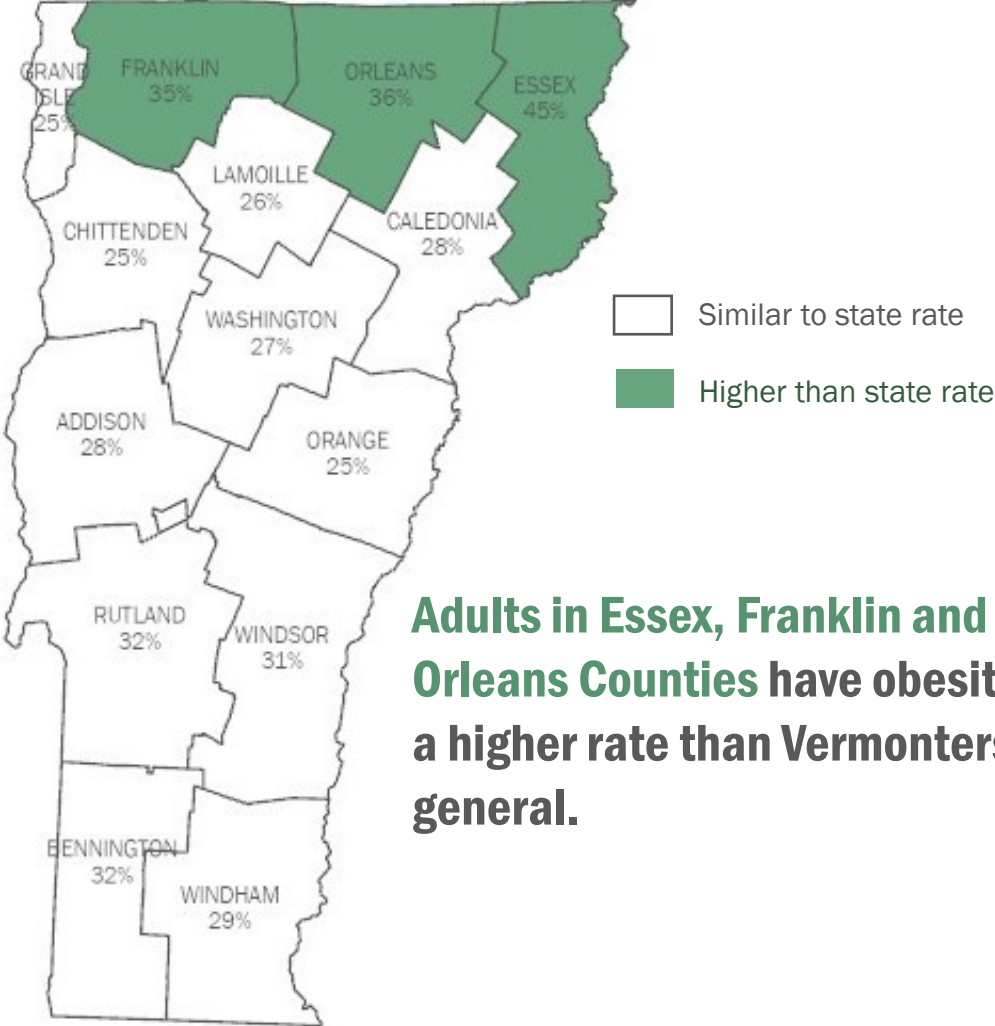
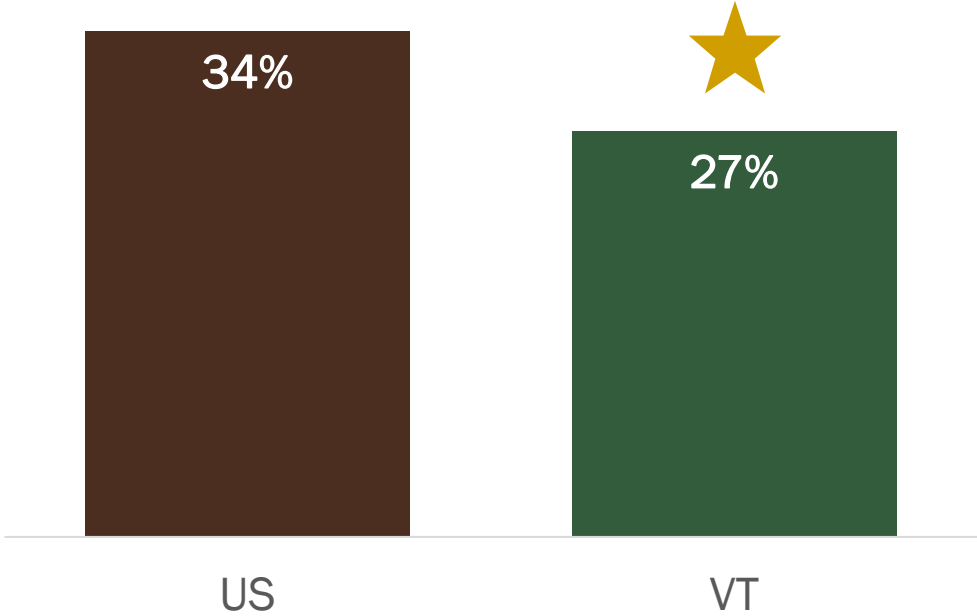


Female Students

Male Students

# Obesity

Vermont adults are less likely to have obesity than the US population.

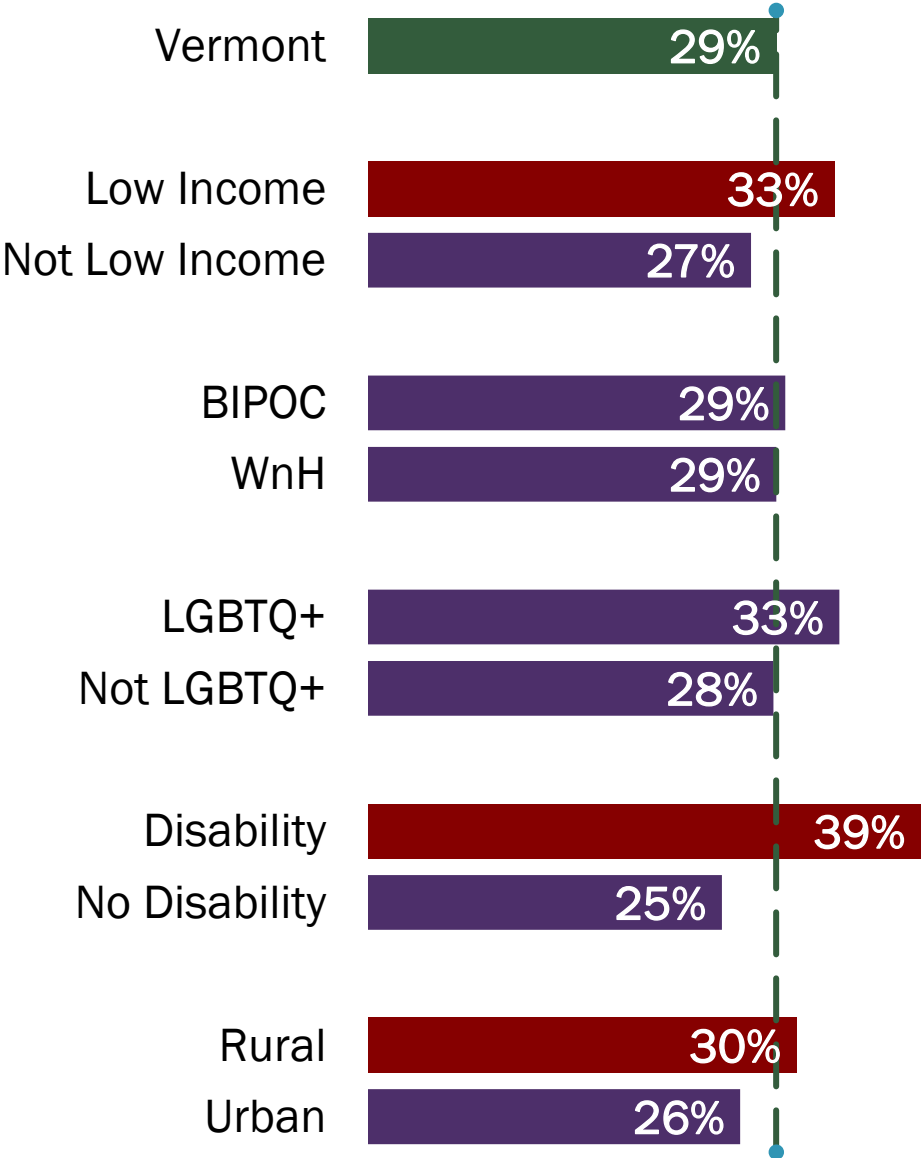


Adults in Essex, Franklin and Orleans Counties have obesity at a higher rate than Vermonters in general.

# Obesity

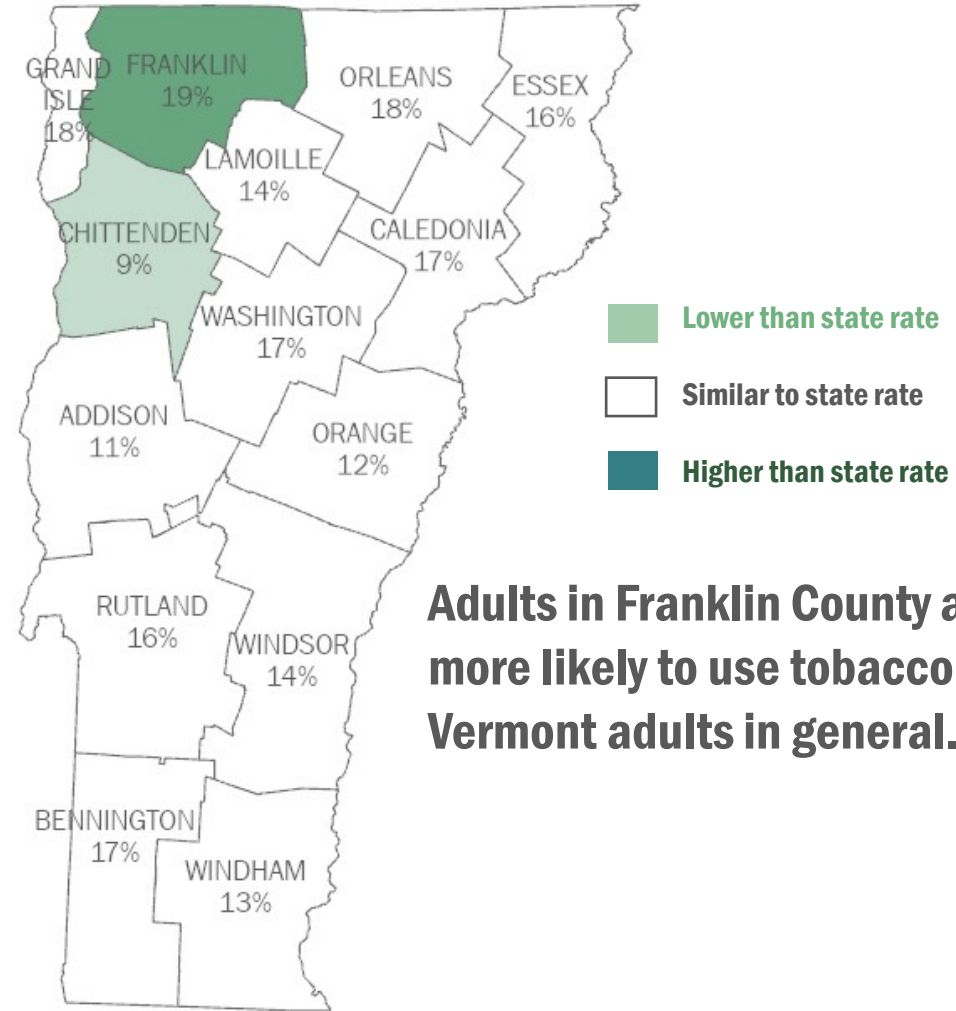
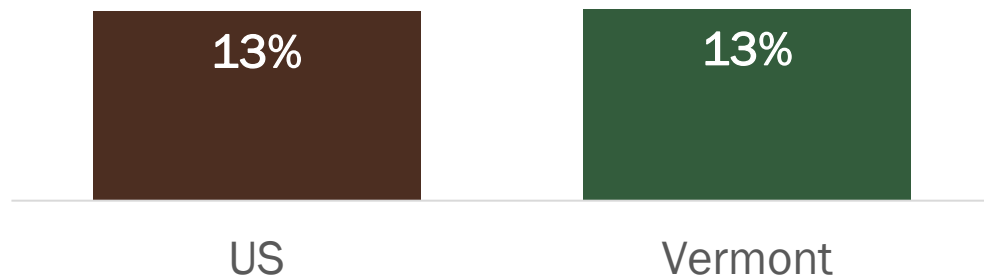
**Adults with a low income, those with a disability, and rural adults are more likely to have obesity than a group of comparison.**

All other groups have similar rates to a group of comparison.



# Tobacco Use

Vermont adults smoke at a similar rate as the U.S. population.



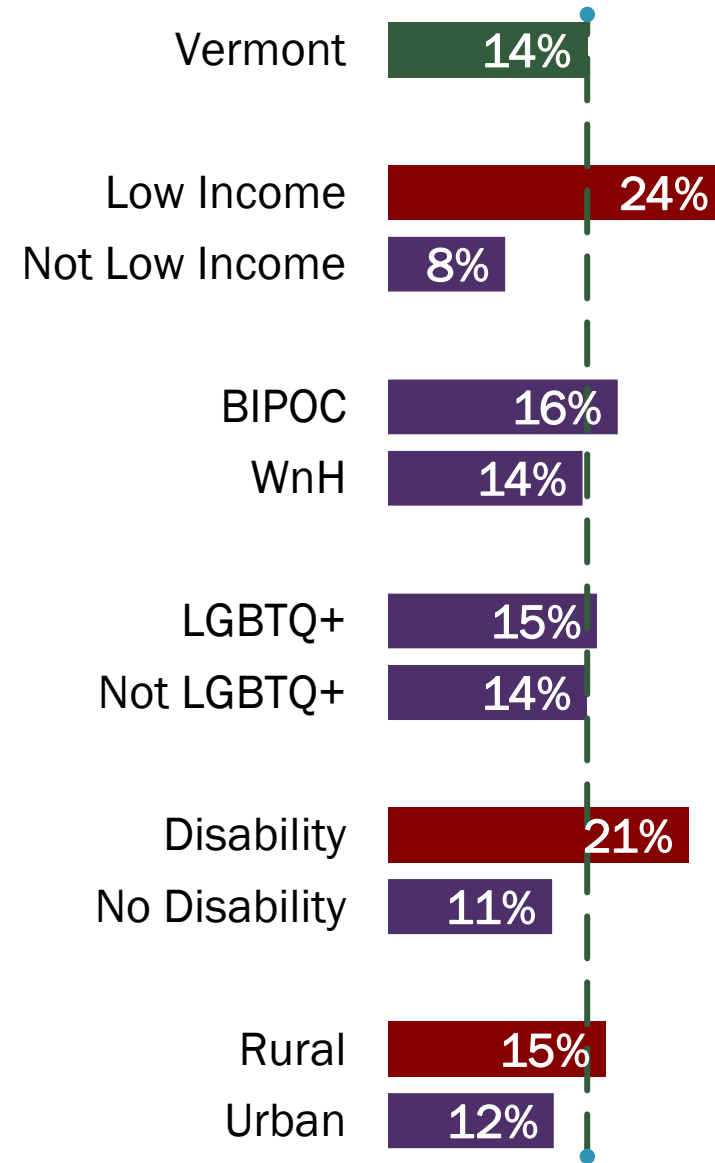
Adults in Franklin County are more likely to use tobacco than Vermont adults in general.



# Tobacco-Use

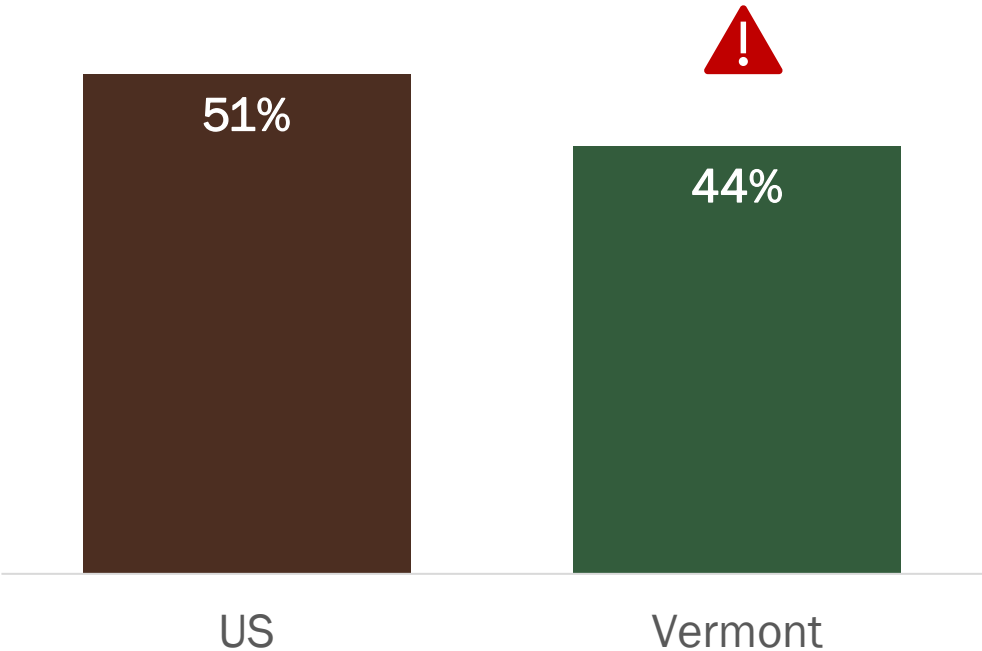
**Adults with a low income, those with a disability, and rural adults are more likely to use tobacco than a group of comparison.**

All other groups have similar rates to a group of comparison.



# Quit Attempts

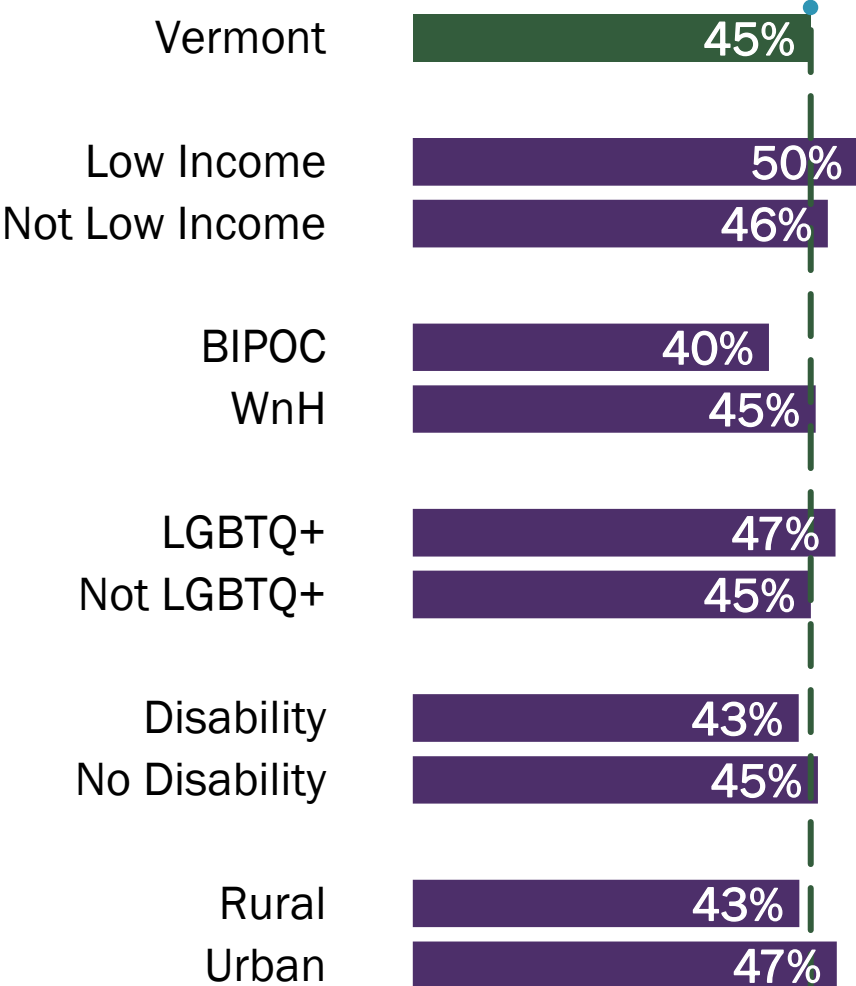
Vermont adults who smoke make quit attempts less than the US population.



The % of adult smokers who make quit attempts in each county is like that of Vermont in general.

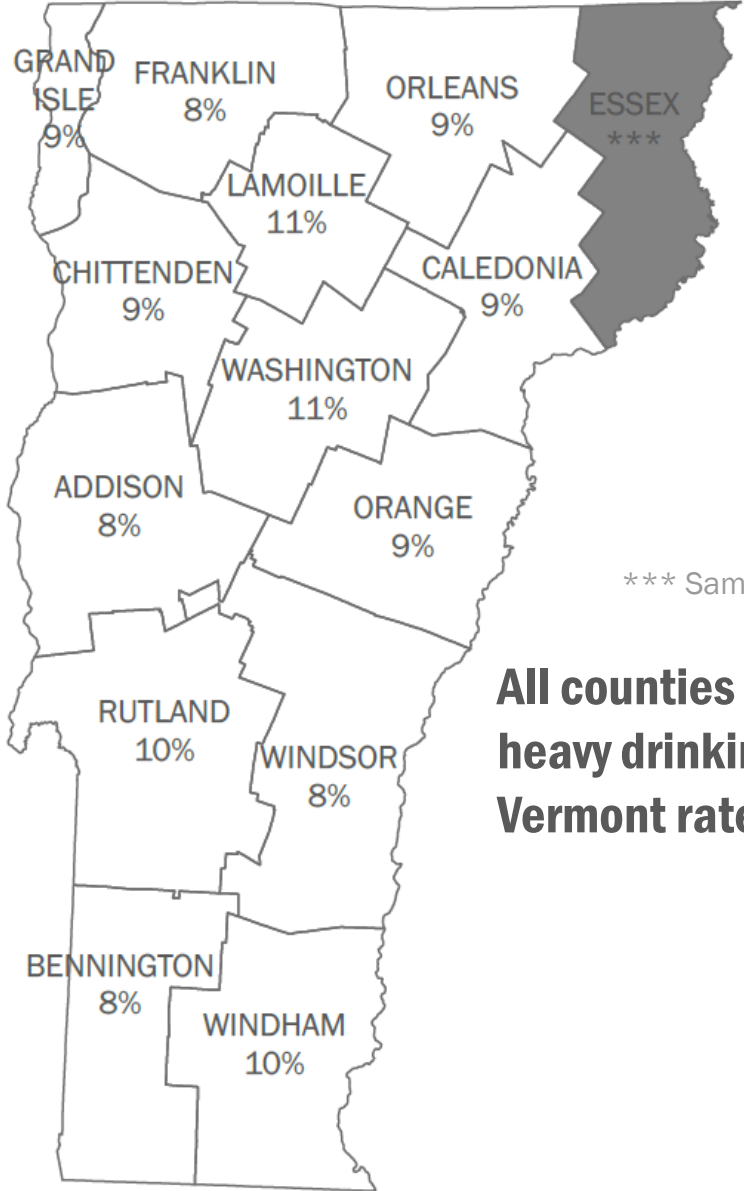
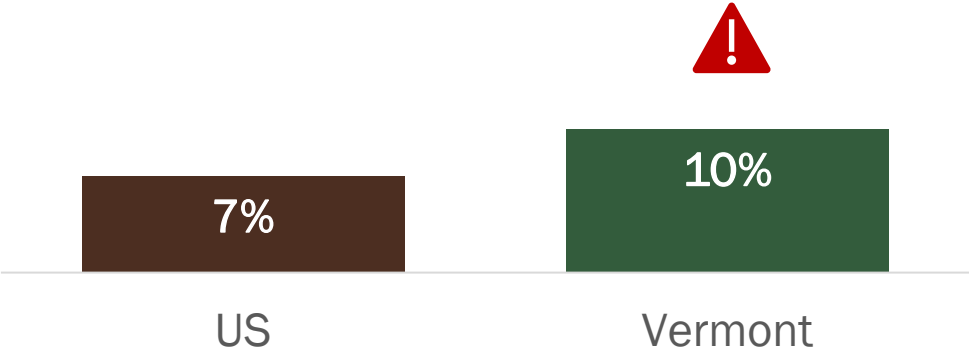
# Quit Attempts

All groups have a similar rate of quit attempts as a group of comparison.



# Heavy Drinking

Vermont adults are more likely to drink heavily than the US population.



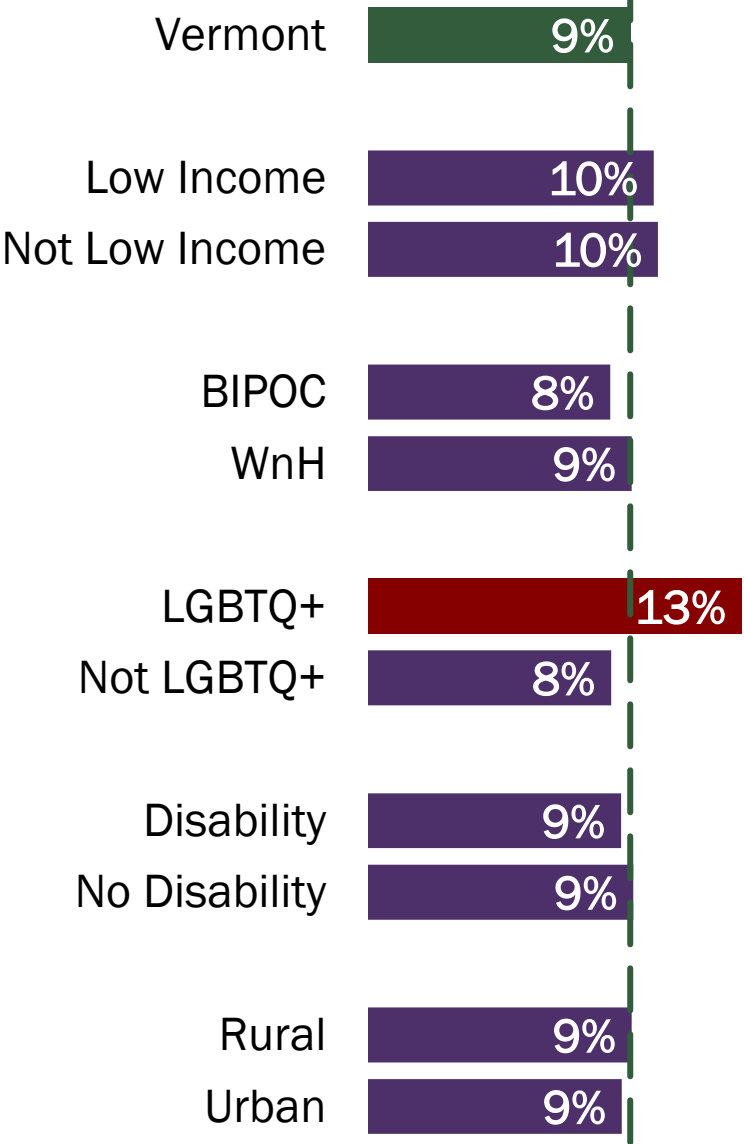
\*\*\* Sample size too small to report.

**All counties have rates of heavy drinking similar to the Vermont rate.**

# Heavy Drinking

**LGBTQ+ adults** are more likely to drink heavily than non-LGBTQ+ adults.

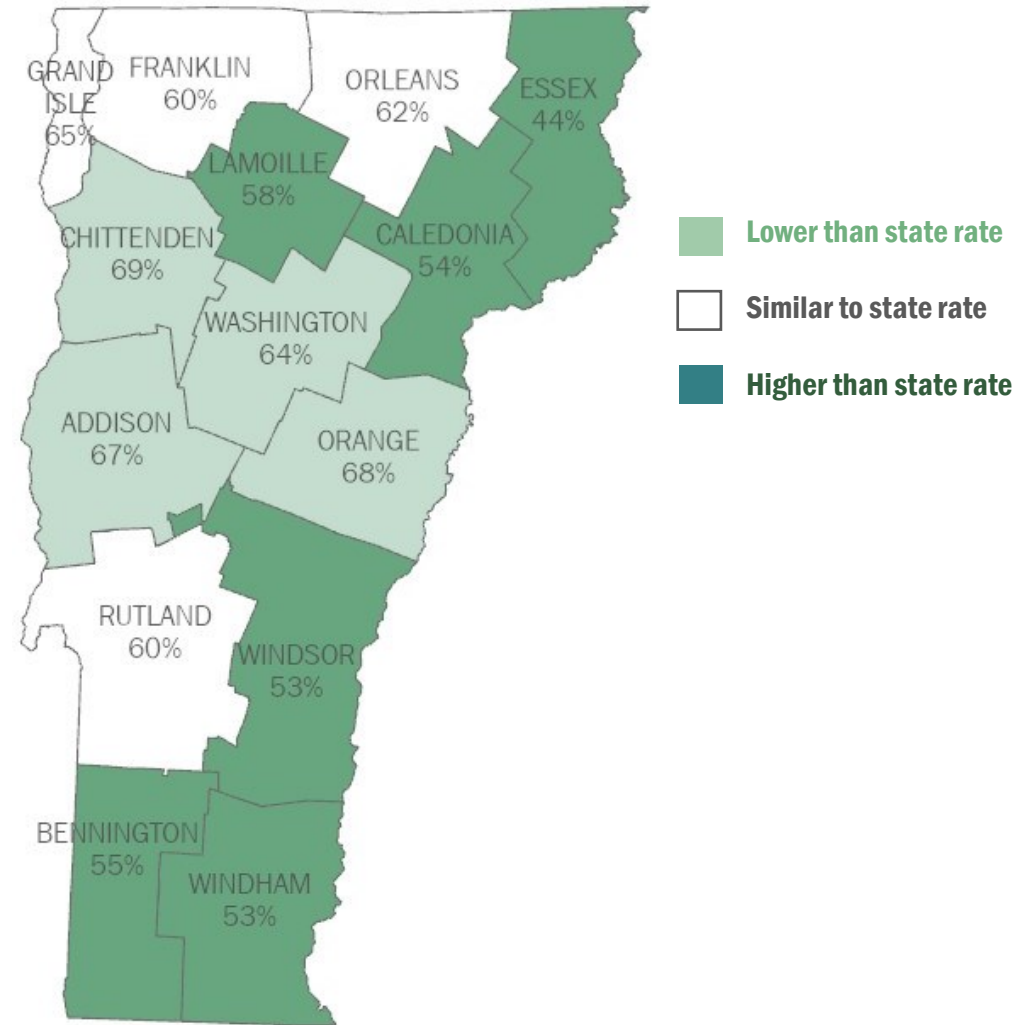
All other groups have similar rates to a group of comparison.



# HPV Vaccination, Ages 13-17

**The rate of adolescents who have completed the HPV vaccine series varies widely across the state, with six counties falling under the statewide rate.**

Having completed the HPV vaccine series requires adolescents who received the first dose before their 15<sup>th</sup> birthday to receive two doses, and those that received the first dose after their 15<sup>th</sup> birthday to receive 3 doses.



# Chapter 2: Cancer Incidence

Published February 2023

# Introduction: Cancer Incidence

This chapter of the *Vermont Cancer Data Pages* presents cancer incidence and staging data from the Vermont Cancer Registry (VCR).

A cancer incidence rate is the number of newly diagnosed cancers per 100,000 people. This chapter reports on the incidence rates of cancers associated with common risk behaviors such as tobacco use, alcohol use, diet, physical inactivity, under-utilization of the HPV vaccine and overexposure to sunlight. For incidence rates of the most common cancers in Vermont, see the [Vermont 2016-2020 Cancer Incidence and Mortality Report](#).

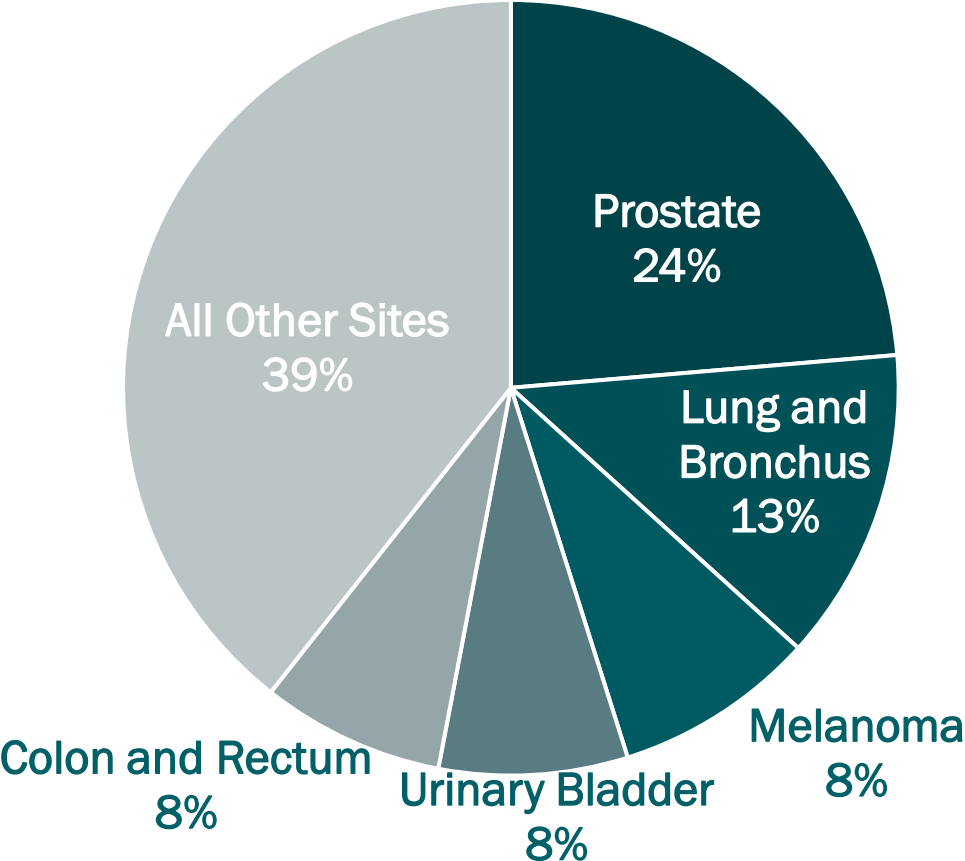
Rates in this chapter exclude basal cell and squamous cell skin cancers and in situ carcinomas except urinary bladder.

Cancer becomes more survivable when found and treated early, which can be accomplished through available cancer screening tests including those for lung, breast, cervical, and colorectal cancers. In general, the result of more widespread use of screening is lower advanced (regional/distant) stage incidence rates.

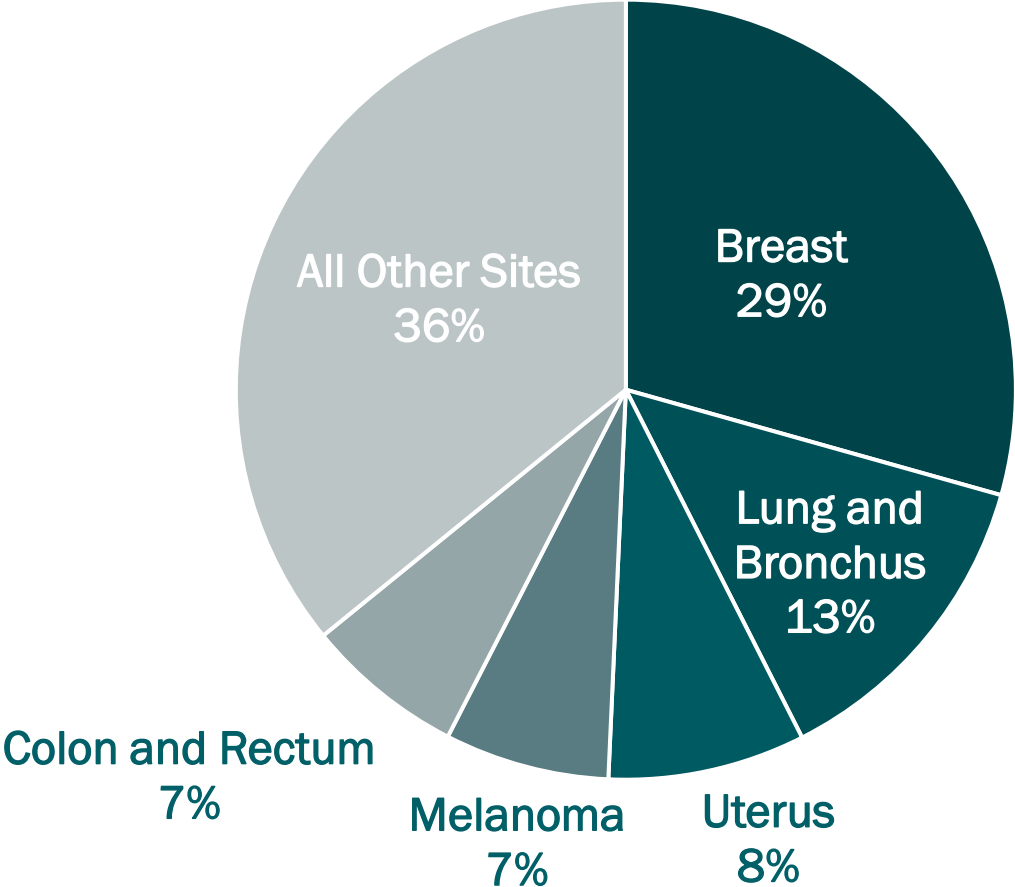
Note: Throughout this report, data comparisons presented as “higher,” “lower,” “larger,” “smaller,” “better,” “worse,” or as “significantly different” are **all considered statistically significant differences**. Statistical significance is assessed by comparing the confidence intervals of different groups.



# Prostate and lung and bronchus cancers are the most common cancers among Vermont males.



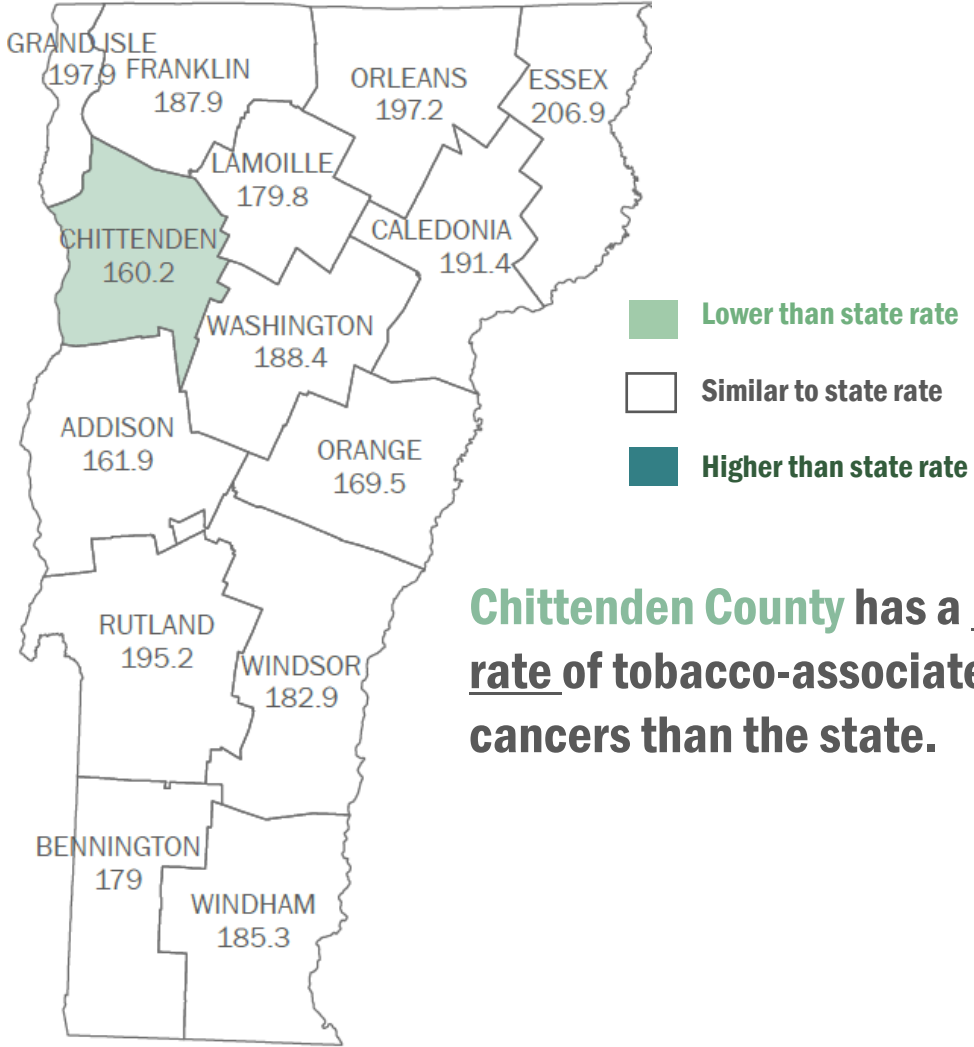
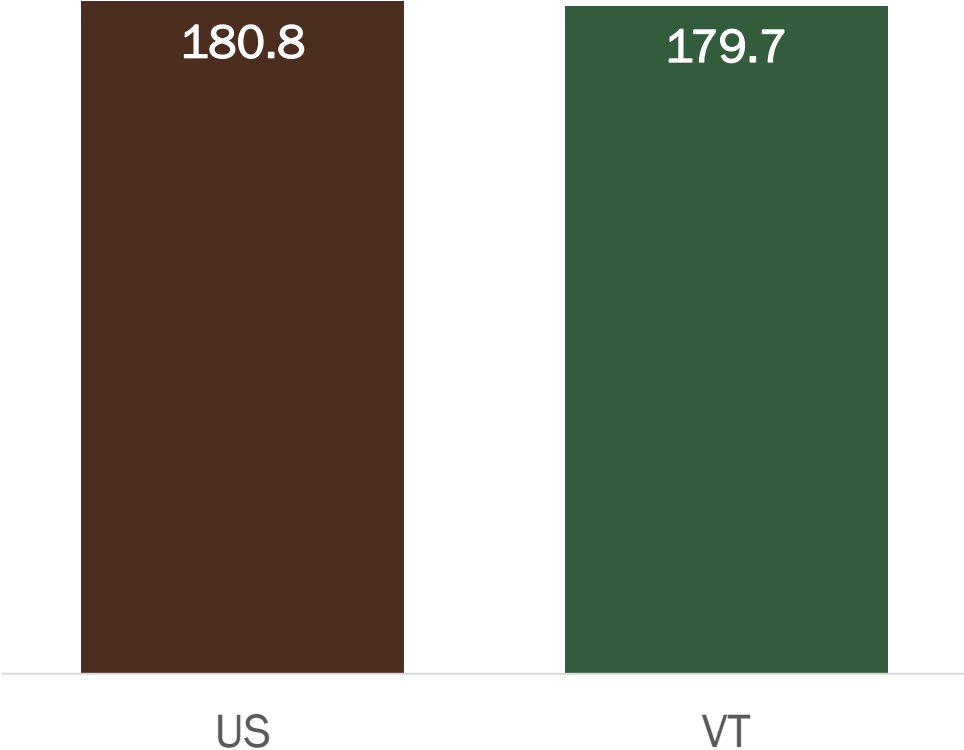
# Breast and lung and bronchus cancers are the most common cancers among Vermont females.



# Tobacco-Associated Cancers<sup>+</sup>

<sup>+</sup>See [page 47](#) for list of tobacco-associated cancers.

The incidence rate of tobacco-associated cancers in Vermont is similar to that of the US.  
 Incidence Rate per 100,000 people



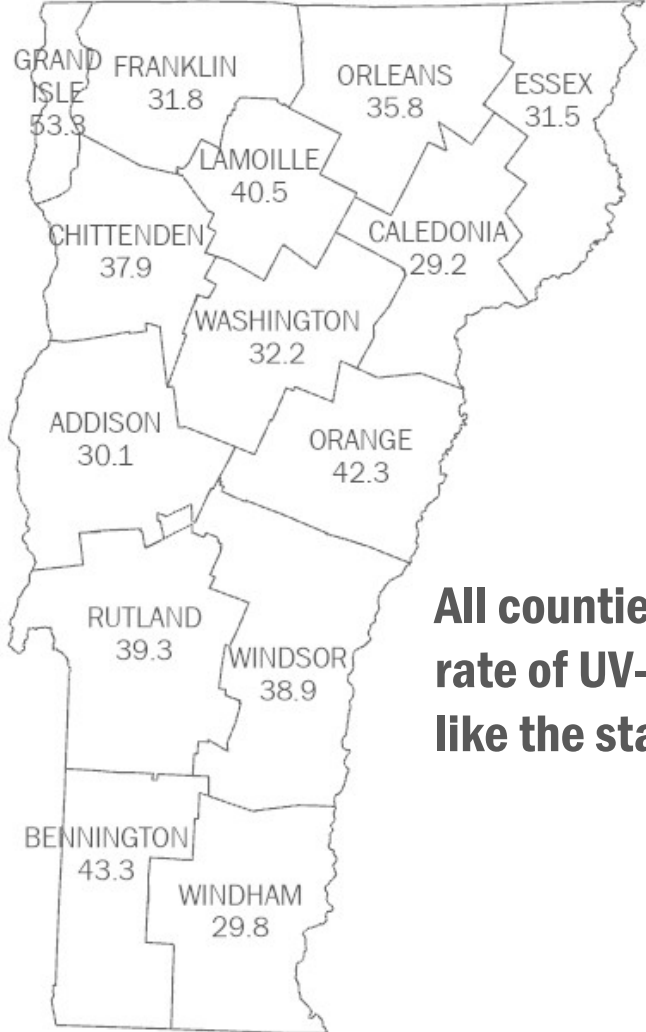
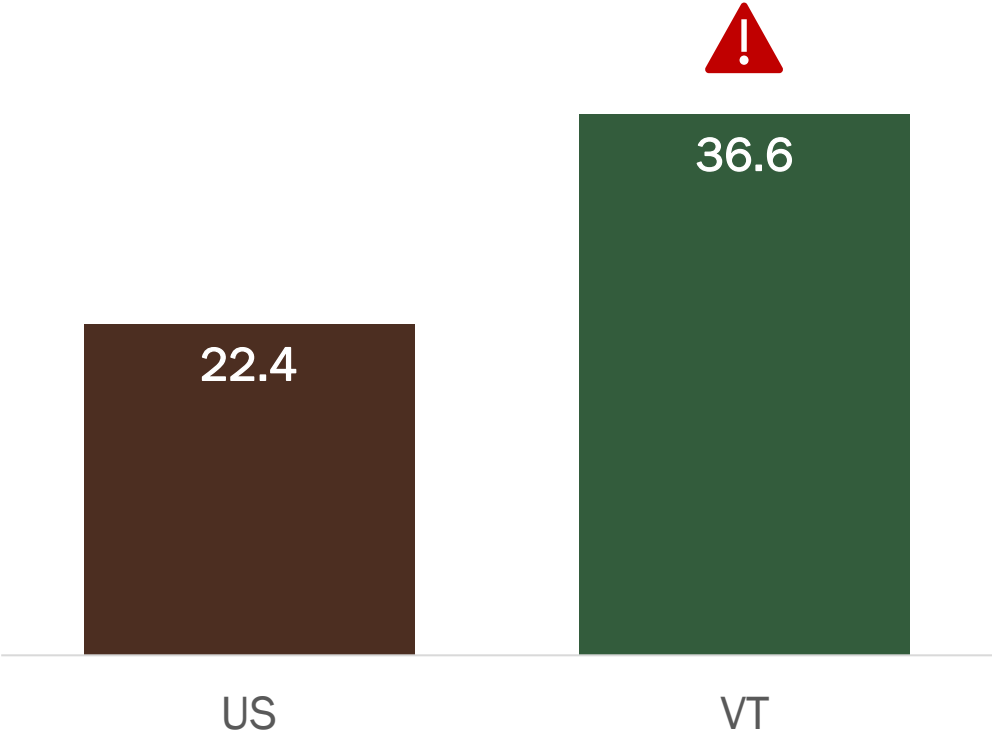
**Chittenden County has a lower rate of tobacco-associated cancers than the state.**

# Ultraviolet (UV)-Associated Cancers<sup>+</sup>

<sup>+</sup>See [page 47](#) for list of UV-associated cancers.

The incidence rate of UV-associated cancers in Vermont is higher than that of the US.

Incidence Rate per 100,000 people



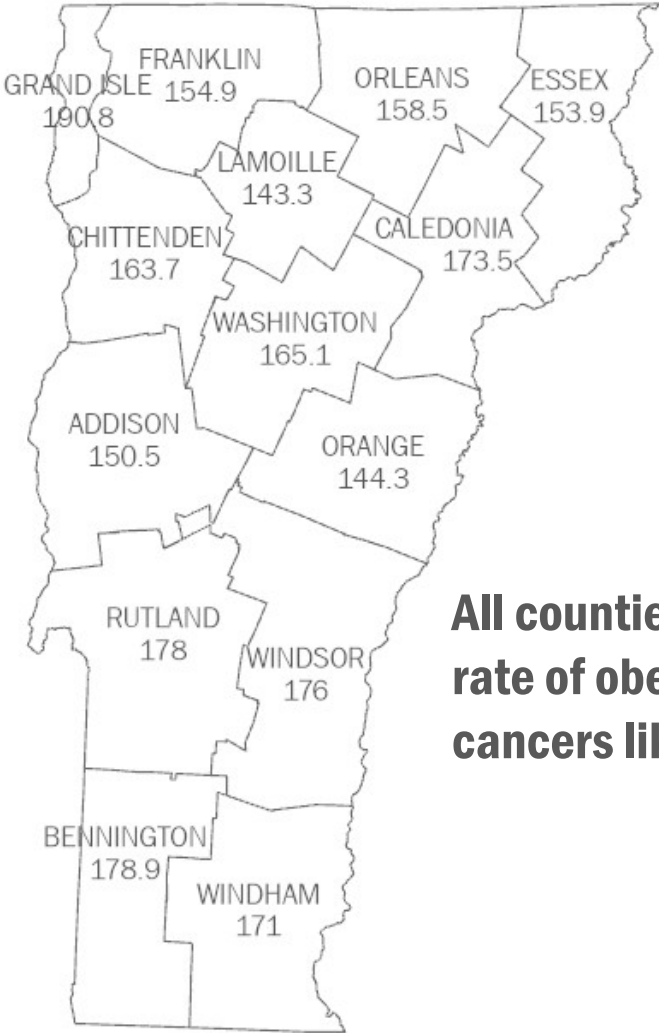
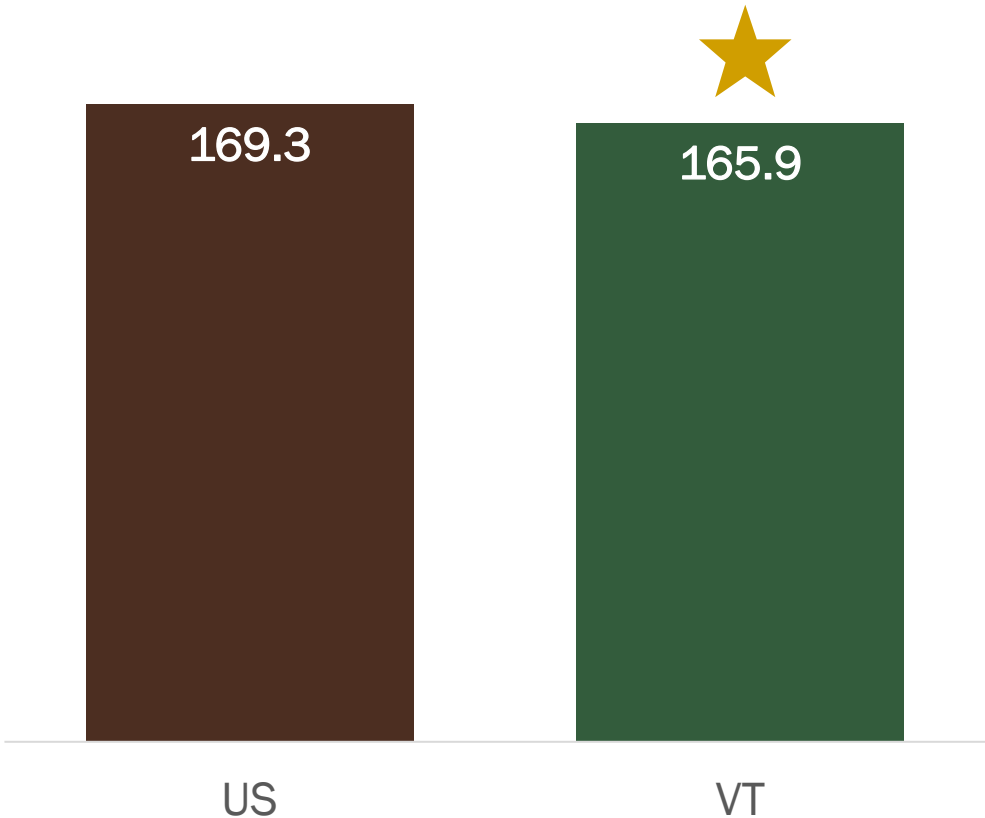
All counties have an incidence rate of UV-associated cancers like the state rate.

# Obesity-Associated Cancers<sup>+</sup>

<sup>+</sup>See [page 47](#) for list of obesity-associated cancers.

**The incidence rate of obesity-associated cancers in Vermont is lower than that in the US.**

Incidence Rate per 100,000 people



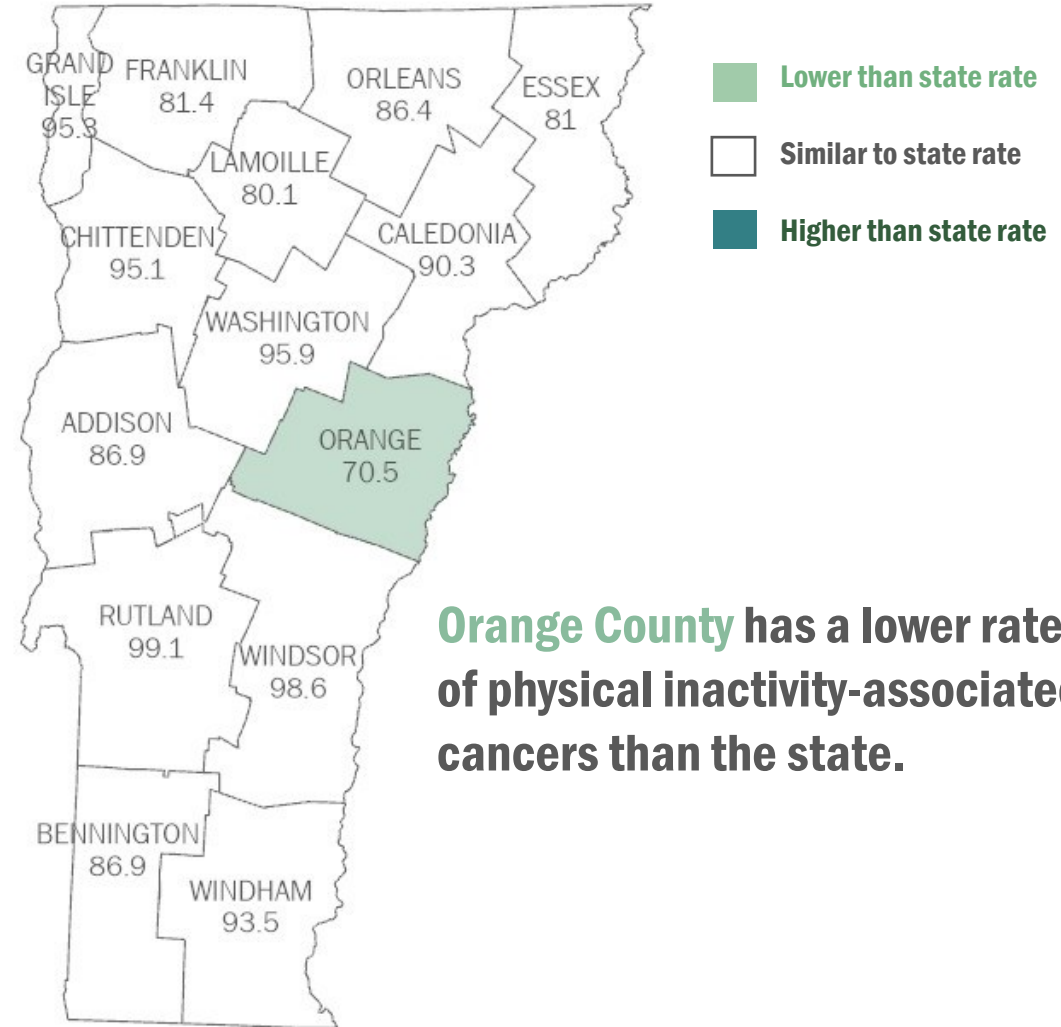
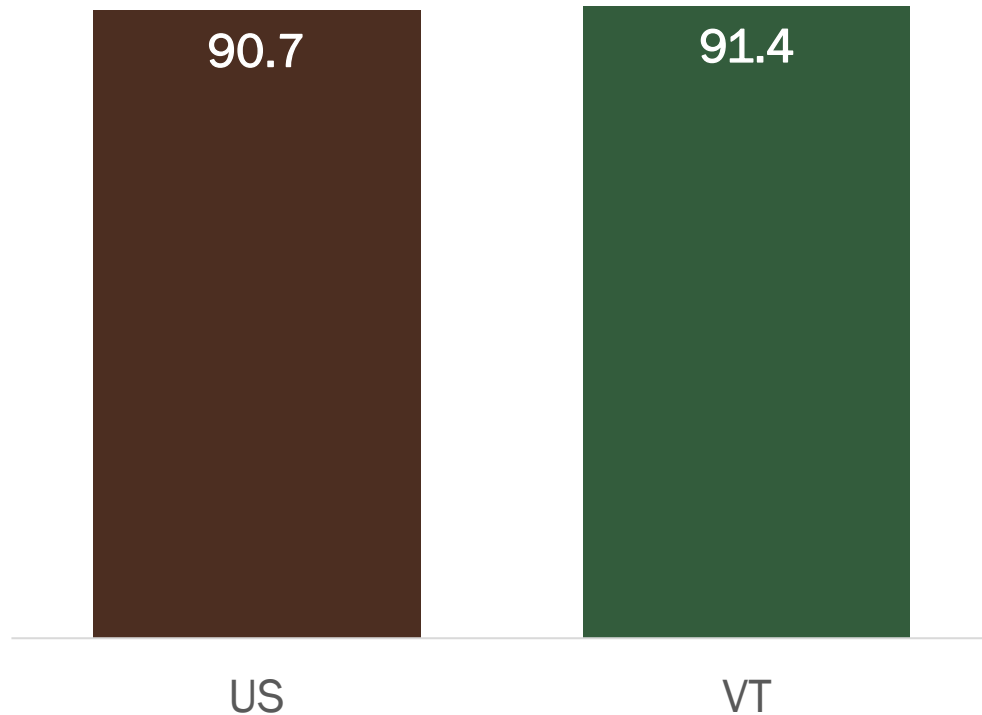
**All counties have an incidence rate of obesity-associated cancers like the state rate.**

# Physical Inactivity-Associated Cancers<sup>+</sup>

<sup>+</sup>See [page 47](#) for list of physical inactivity-associated cancers.

The incidence rate of physical inactivity-associated cancers in Vermont is similar to that of the US.

Incidence Rate per 100,000



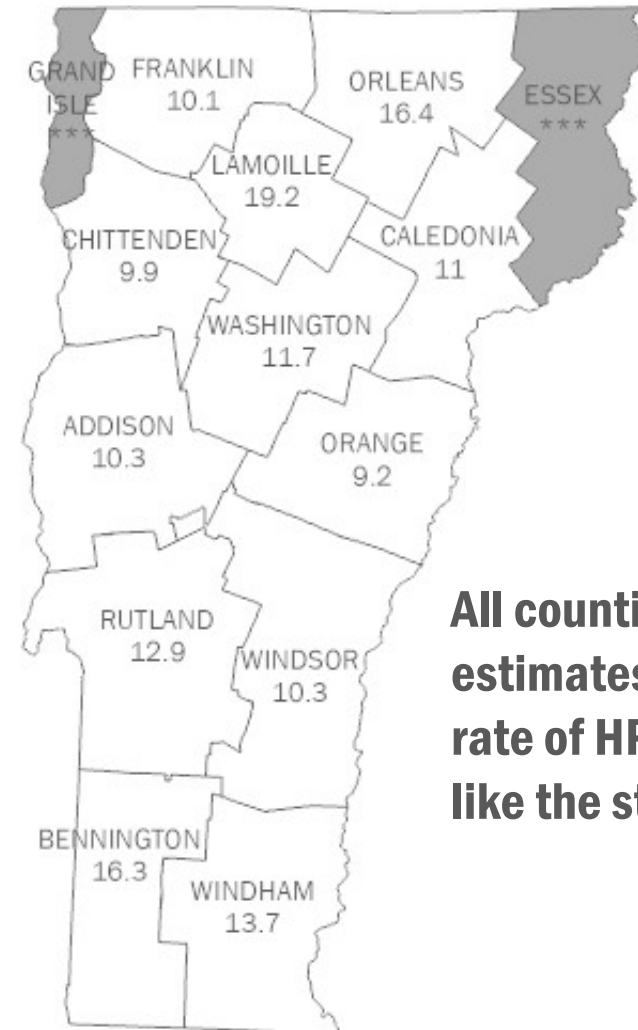
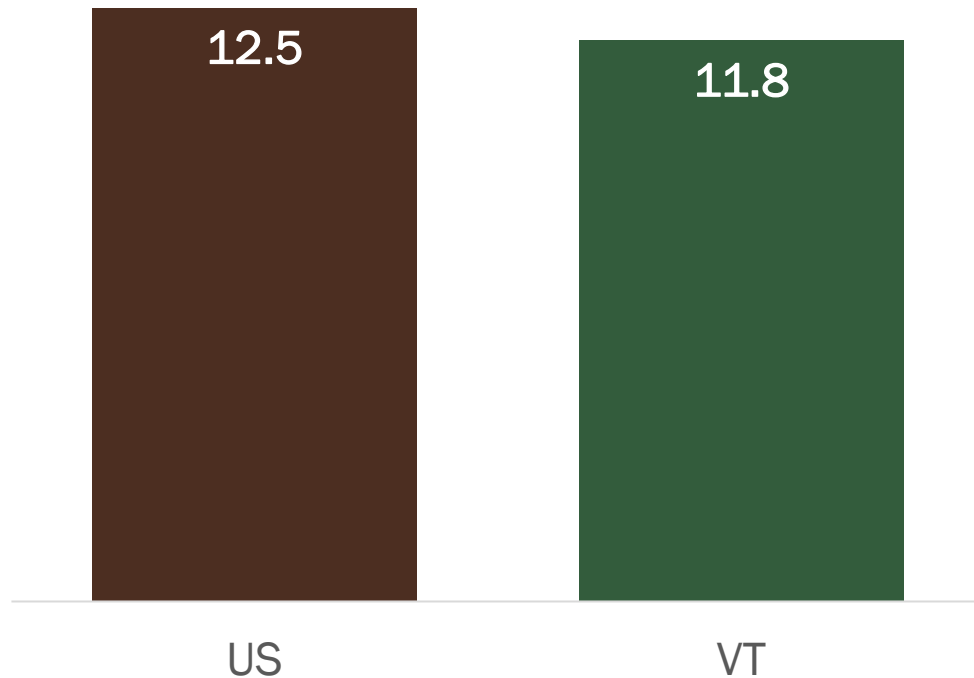
**Orange County** has a lower rate of physical inactivity-associated cancers than the state.

# Human papillomavirus (HPV)-Associated Cancers<sup>+</sup>

<sup>+</sup>See [page 47](#) for list of HPV-associated cancers.

The incidence rate of HPV-associated cancers in Vermont is similar to that of the US.

Incidence Rate per 100,000 people



\*\*\* Sample size too small to report.

**All counties with reportable estimates have an incidence rate of HPV-associated cancers like the state rate.**

Note: Cervical cancers diagnosed as in situ are not reported to the Cancer Registry and are therefore not included in this chart.

Vermont Department of Health Source: Vermont Cancer Registry 2016-2020

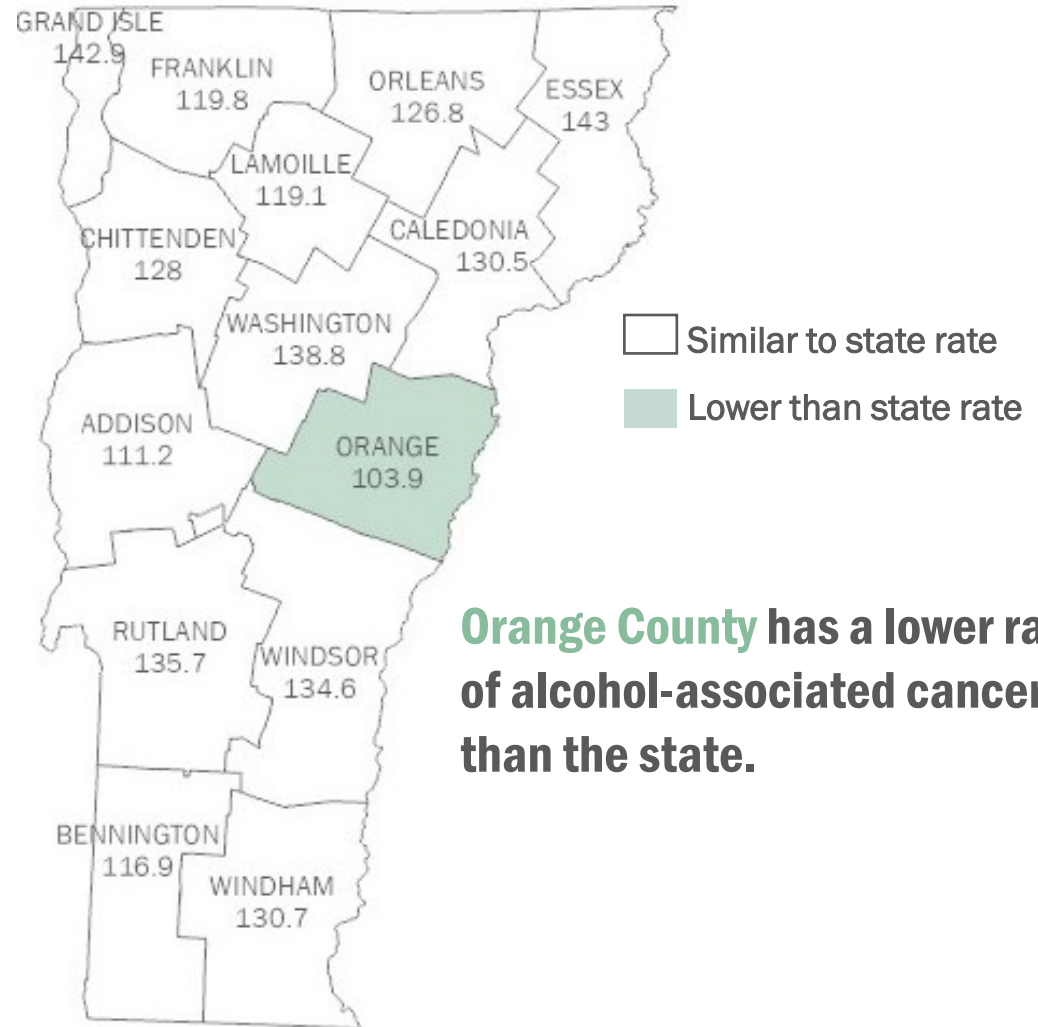
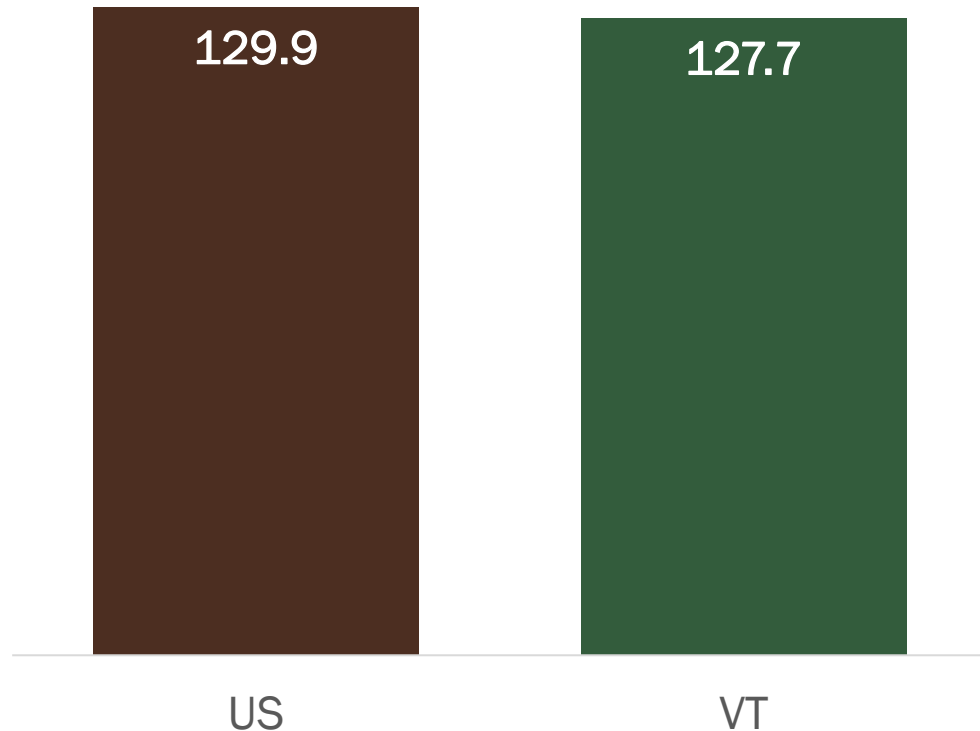
All estimates are age-adjusted to the 2000 U.S. standard population.

# Alcohol-Associated Cancers<sup>+</sup>

<sup>+</sup>See [page 47](#) for list of alcohol-associated cancers.

The incidence rate of alcohol-associated cancer in Vermont is similar to that in the US.

Incidence rate per 100,000 people

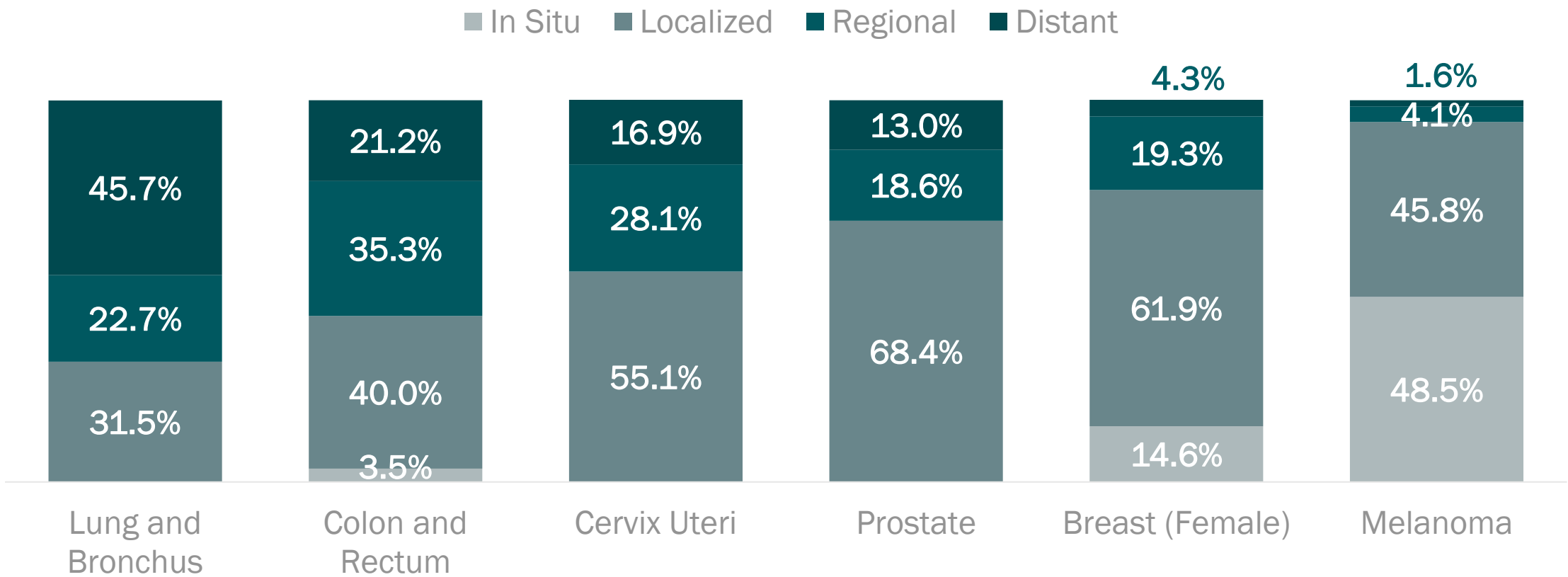


**Orange County** has a lower rate of alcohol-associated cancers than the state.



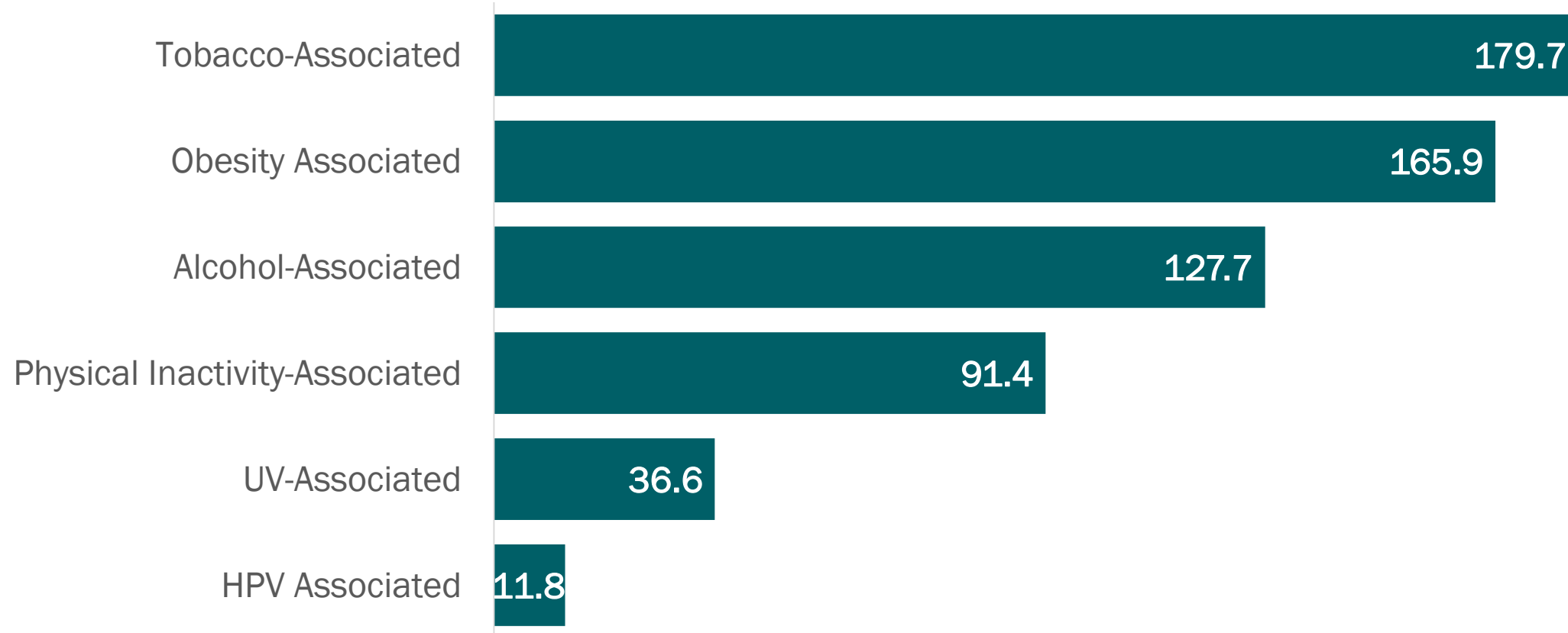
# Lung and colorectal cancers are the cancers most likely to be diagnosed at a distant stage.

Cancers by Stage at Diagnosis



Note: Cervical cancers diagnosed as in situ are not reported to the Cancer Registry and are therefore not included in this chart.

# Tobacco- and obesity-associated cancers have the highest incidence rates in Vermont.

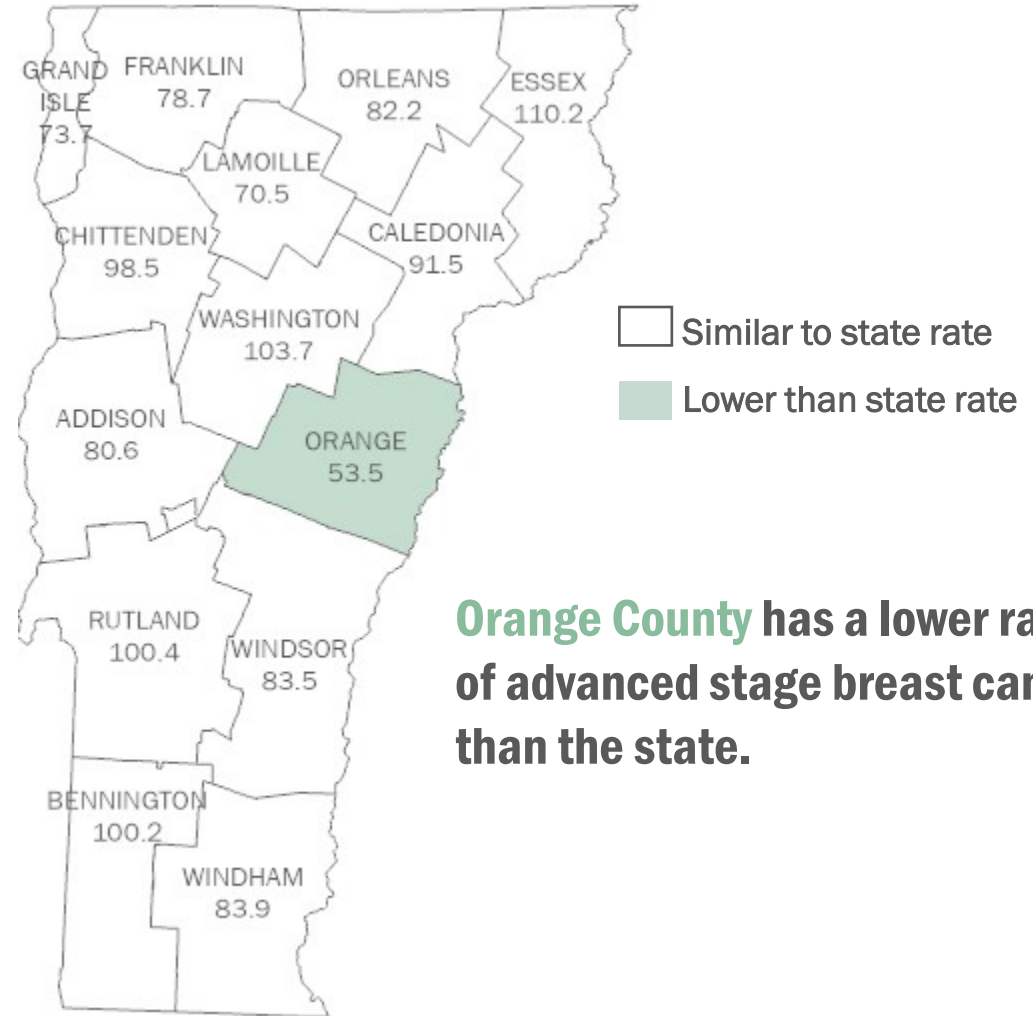
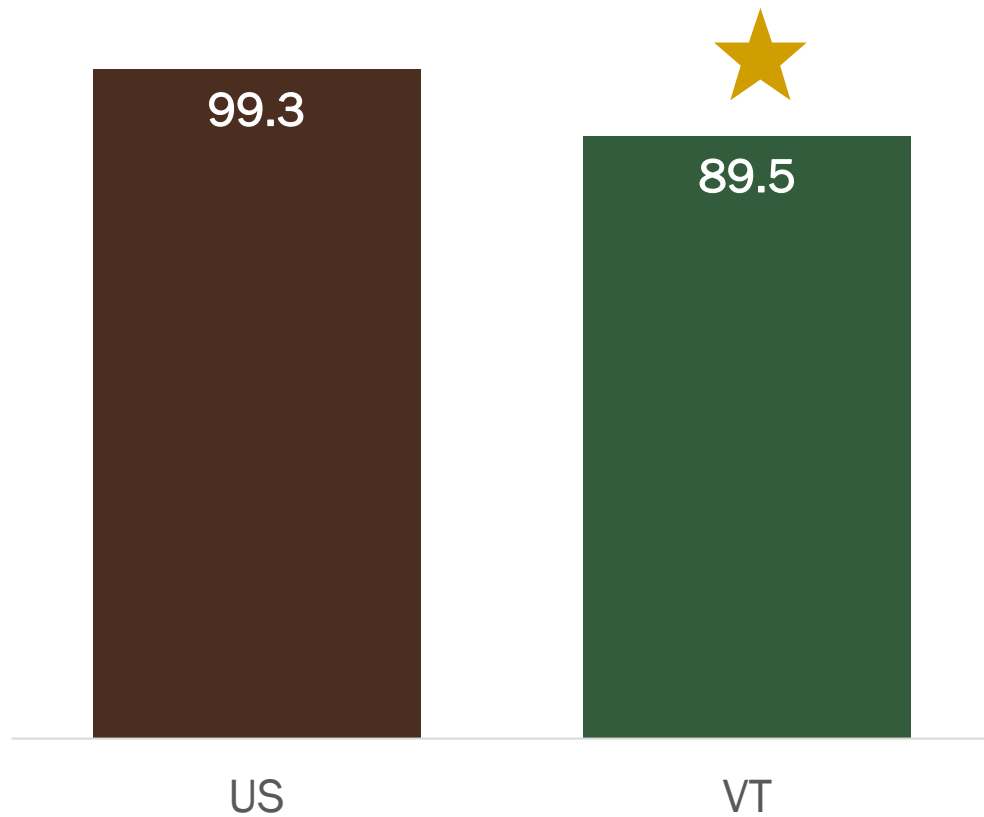


Note: Cervical cancers diagnosed as in situ are not reported to the Cancer Registry and are therefore not included in this chart.

# Advanced Stage Diagnosis: Breast Cancer (Female, Ages 50+)

The incidence rate of advanced stage breast cancer is lower in Vermont than in the US.

Incidence Rate per 100,000 people

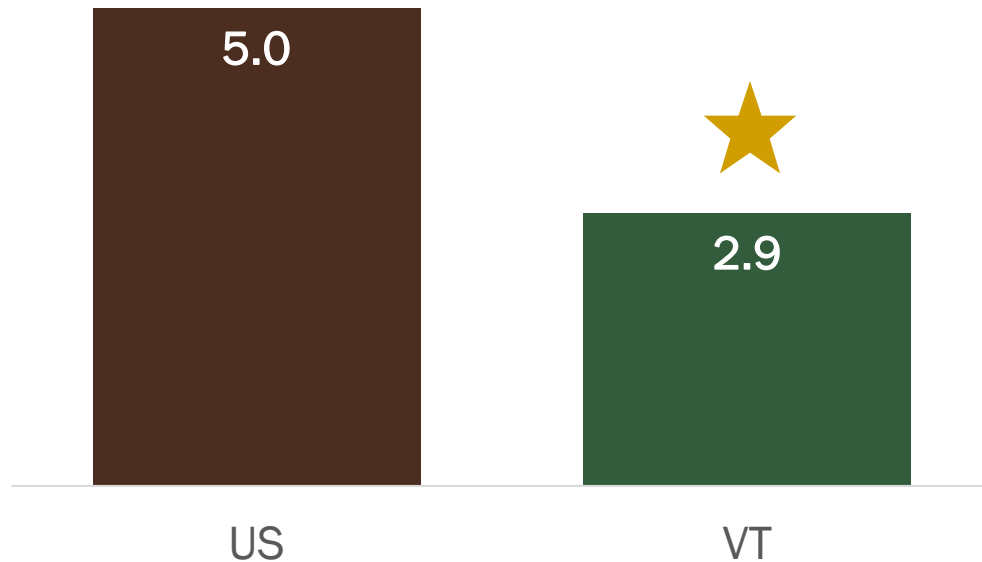


**Orange County** has a lower rate of advanced stage breast cancer than the state.

# Advanced Stage Diagnosis: Cervical Cancer (Female, Ages 20+)

The incidence rate of advanced stage cervical cancer is lower in Vermont than in the US.

Incidence Rate per 100,000 people

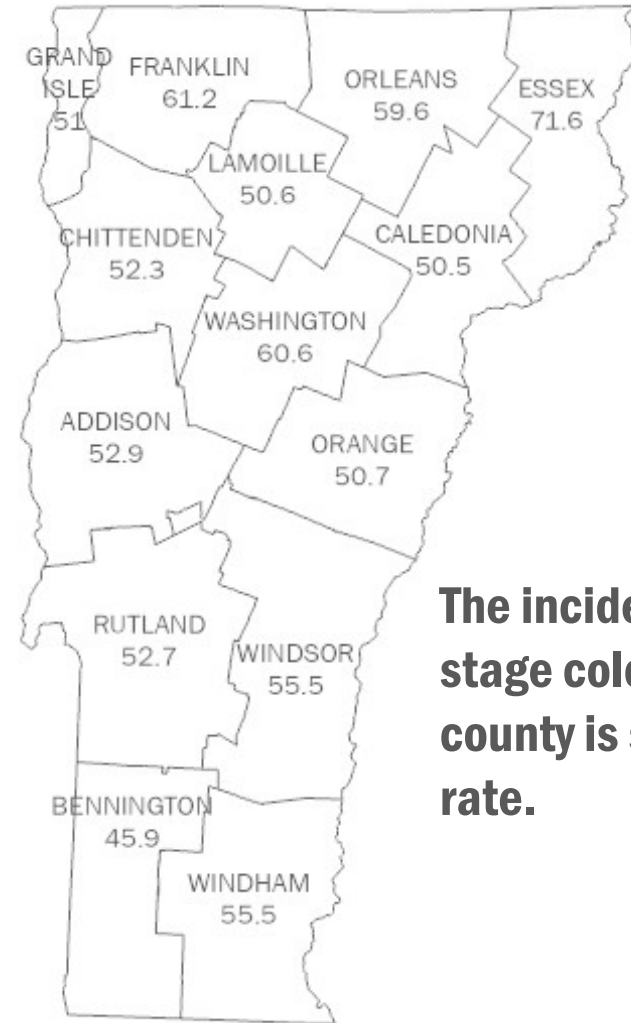
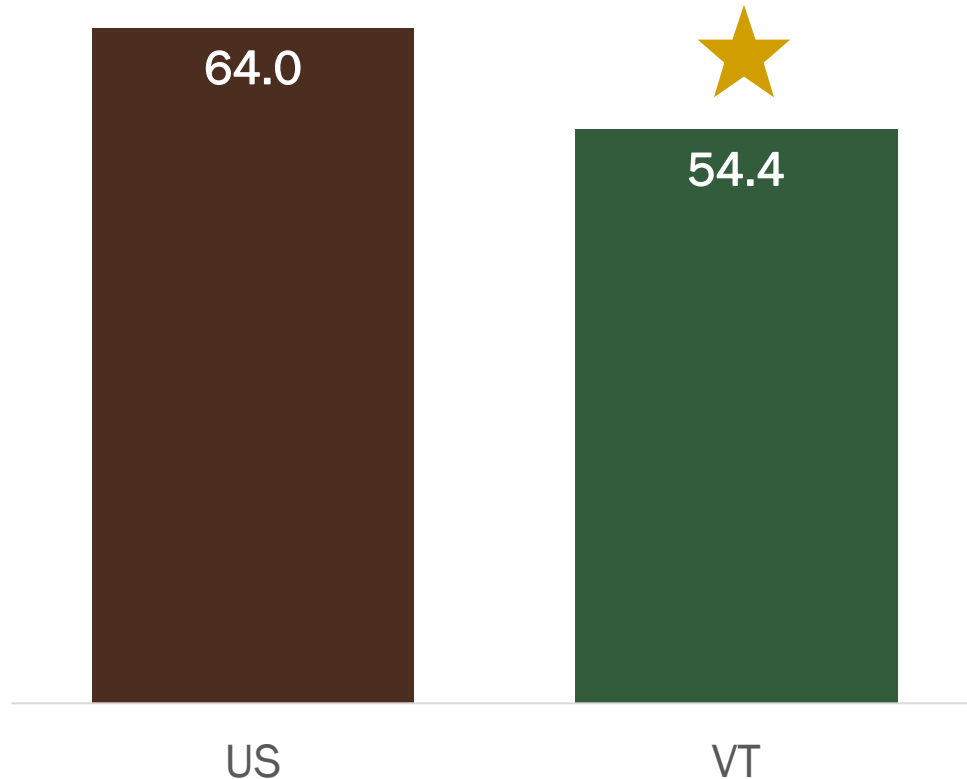


Due to the low number of cases of advanced stage cervical cancer in Vermont, comparisons cannot be made between counties.

# Advanced Stage Diagnosis: Colorectal Cancer (Ages 50+)

The incidence rate of advanced stage colorectal cancer in Vermont is lower than in the US.

Incidence Rate per 100,000 people

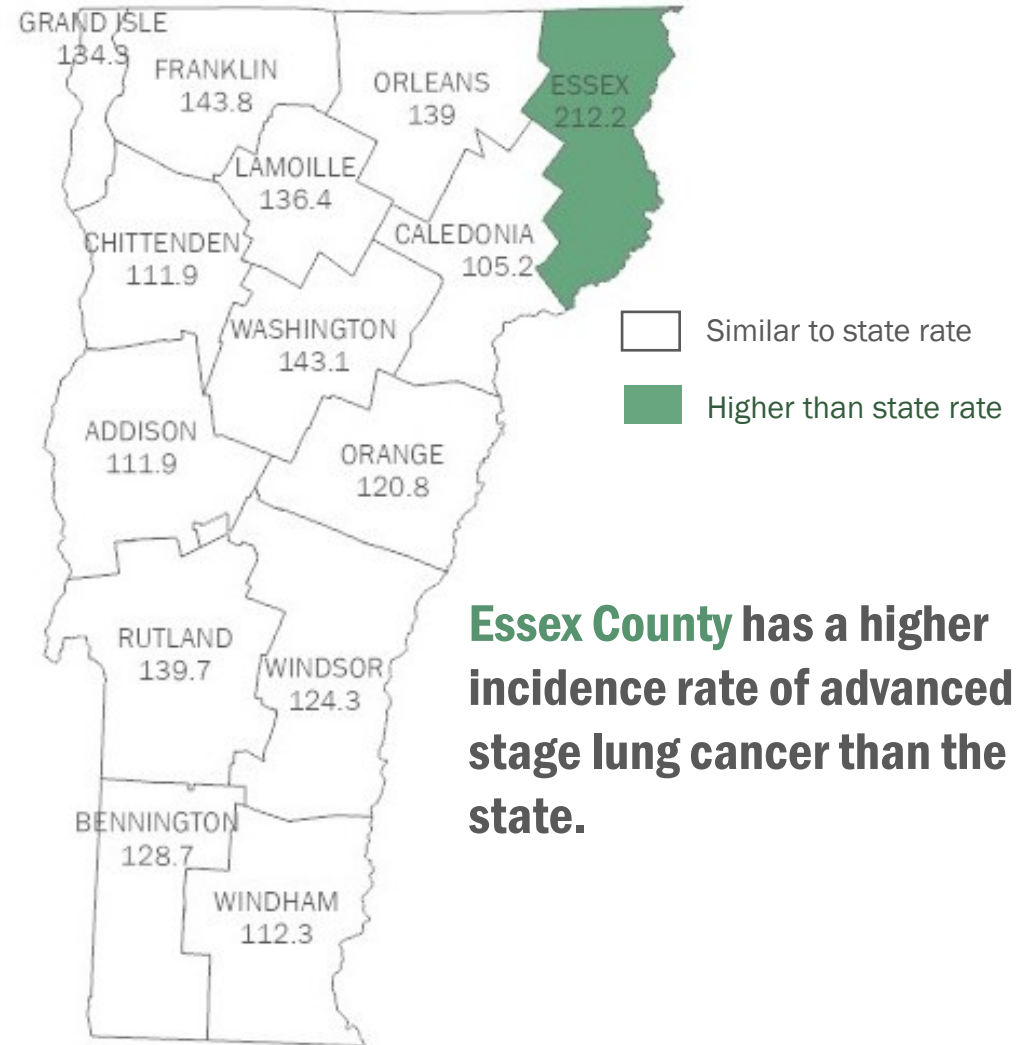
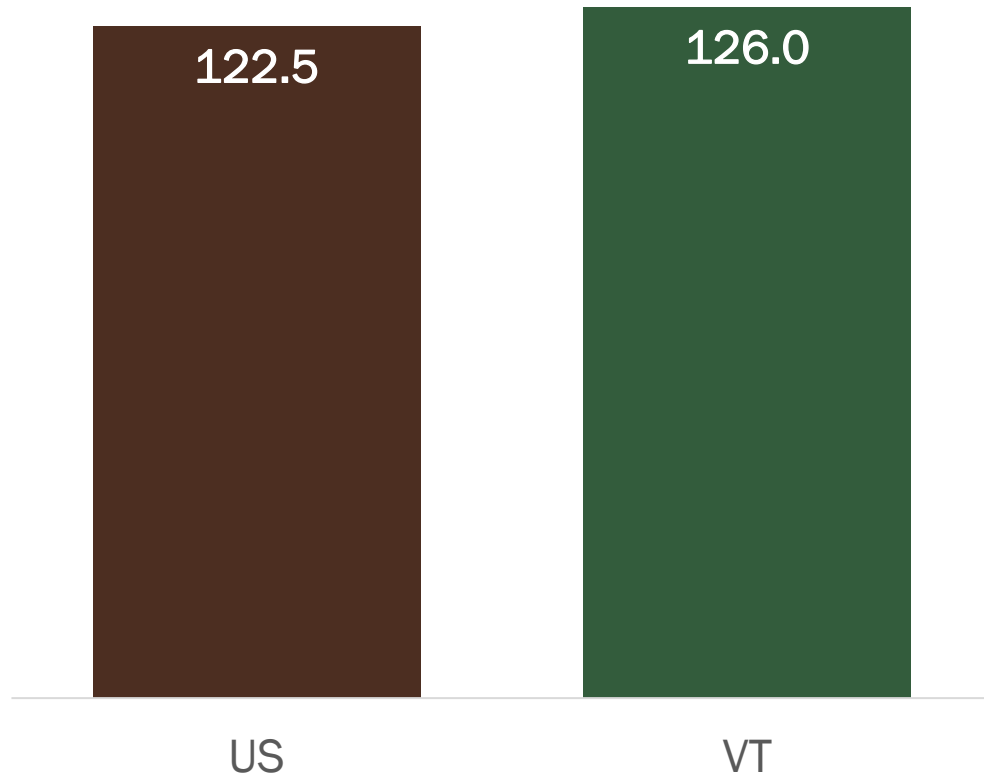


The incidence rate of advanced stage colorectal cancer in each county is similar to the state rate.

# Advanced Stage Diagnosis: Lung Cancer (Ages 50+)

The incidence rate of advanced stage lung cancer in Vermont is similar to that in the US.

Incidence Rate per 100,000 people



**Essex County has a higher incidence rate of advanced stage lung cancer than the state.**

# Definitions of Risk Factor-Associated Cancers

**Tobacco-Associated Cancers:** Lip, oral cavity, pharynx, esophagus, stomach, colon and rectum, liver, pancreas, larynx, trachea, lung, bronchus, cervix uteri, kidney and renal pelvis, urinary bladder, acute myeloid leukemia

**Ultraviolet-Associated Cancers:** Melanoma and non-melanoma skin cancers

**Obesity-Associated Cancers:** Esophageal adenocarcinoma, gastric cardia, colon and rectum, liver, gallbladder, pancreas, multiple myeloma, postmenopausal female breast, corpus and uterus not otherwise specified, ovary, kidney, meningioma, thyroid

**Physical Inactivity-Associated Cancers:** Colon, postmenopausal female breast, corpus and uterus not otherwise specified

**HPV-Associated Cancers:** Oropharyngeal squamous cell carcinoma, anal and rectal squamous cell carcinoma, vulvar squamous cell carcinoma, vaginal squamous cell carcinoma, cervical carcinoma, penile squamous cell carcinoma

**Alcohol-Associated Cancers:** Lip, oral cavity, pharynx, esophagus, colon and rectum, liver, larynx, female breast

# Chapter 3: Cancer Screening



# Introduction: Cancer Screening

Screening provides an opportunity to find and treat cancers early, leading to a decrease in overall cancer mortality. Lung, cervical, breast, and colorectal cancers all have established screening guidelines, where the benefits of screening have been determined to outweigh any potential harms.

Screening data were analyzed using the following methods:

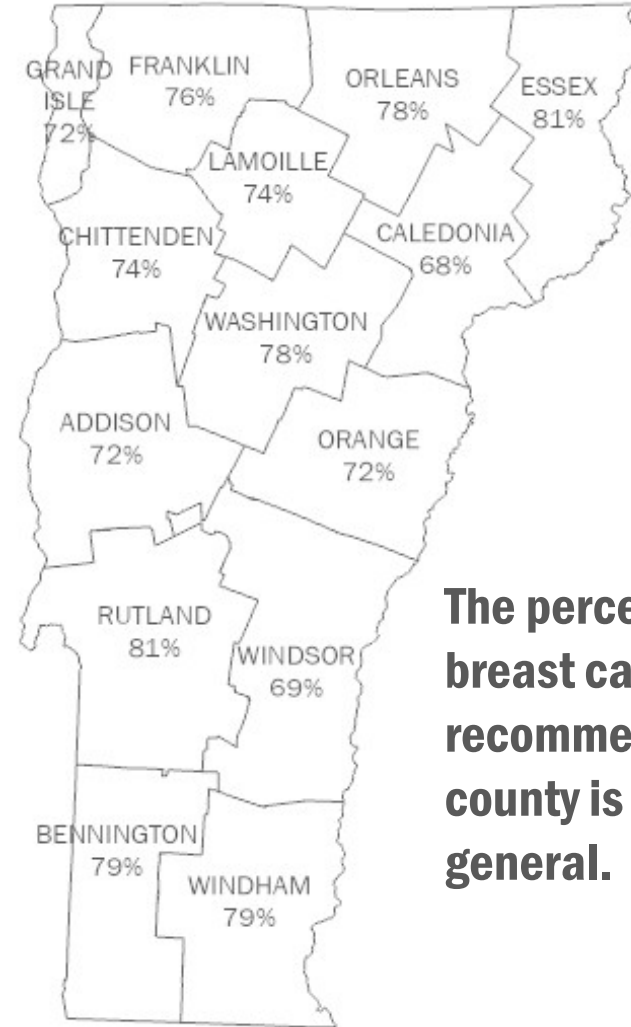
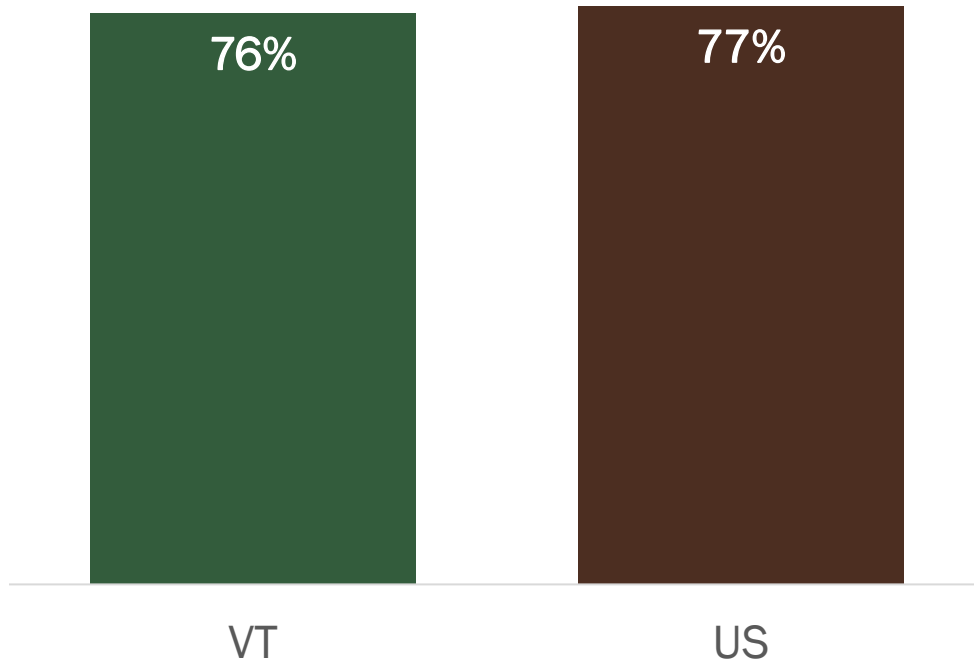
**Breast Cancer Screening:** Based on 2016 U.S. Preventative Services Task Force (USPSTF) recommendations. These calculations include women ages 50-74 years who had a mammogram in the past 2 years.

**Colorectal Cancer Screening:** Based on 2021 USPSTF recommendations. Because of limitations on the number of questions in the BRFSS survey, not all tests that are recommended for the detection of colorectal cancer are included here. The calculations used in this document include adults ages 45-75 who received a (1) Fecal Occult Blood Test (FOBT) or Fecal Immunochemical Test (FIT) in the past year, (2) stool DNA test in the past three years, (3) virtual colonoscopy in the past five years, (4) sigmoidoscopy in the past five years, (5) sigmoidoscopy in the past 10 years and a FOBT or FIT in the past year, or (6) colonoscopy in the past 10 years.

**Lung Cancer Screening:** Based on 2021 USPSTF recommendations. These calculations include adults ages 50-80 who have a smoking history of 20 pack-years or more and who currently smoke or have quit within the past 15 years.

# Breast Cancer Screening

**Vermonters meet breast cancer screening recommendations at a similar rate as the US population.**

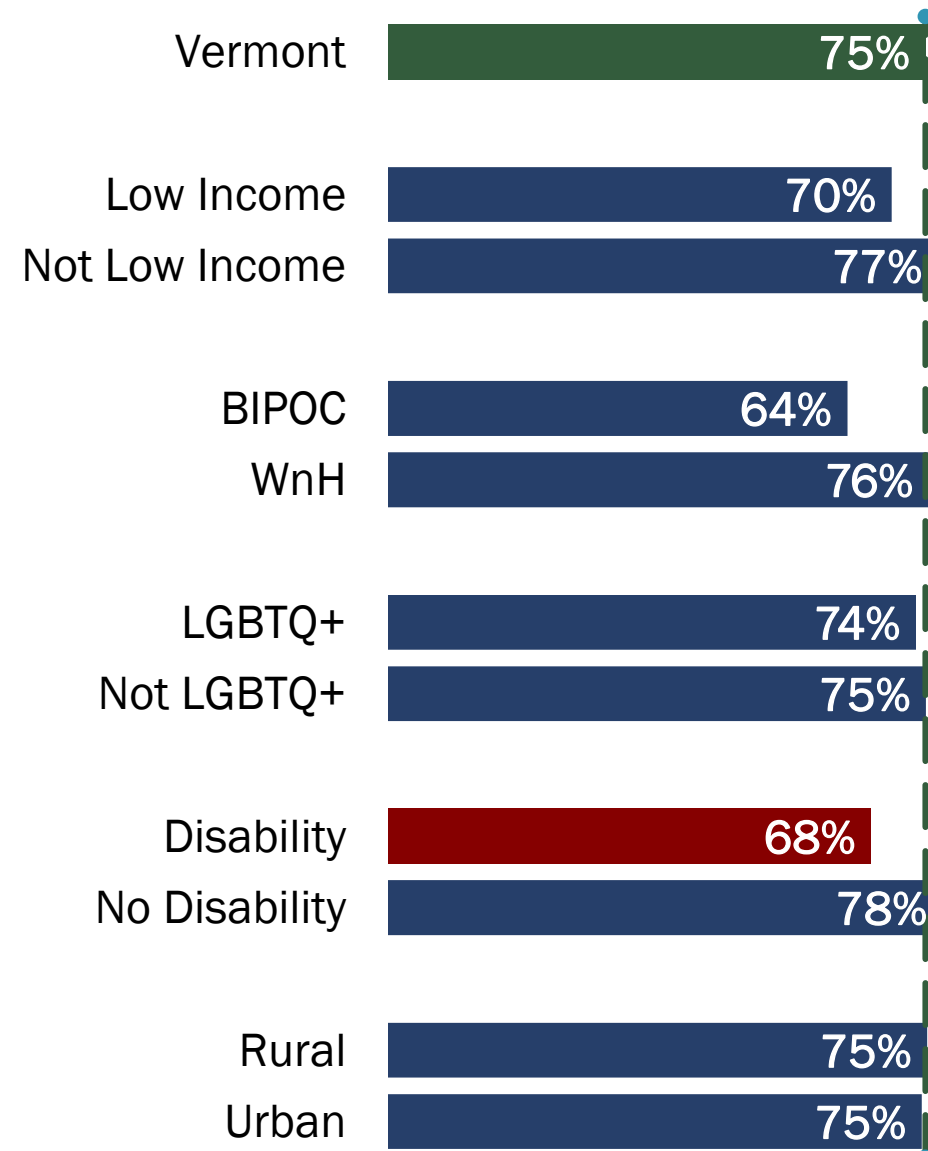


**The percent of adults who meet breast cancer screening recommendations in each county is like that of Vermont in general.**

# Breast Cancer Screening

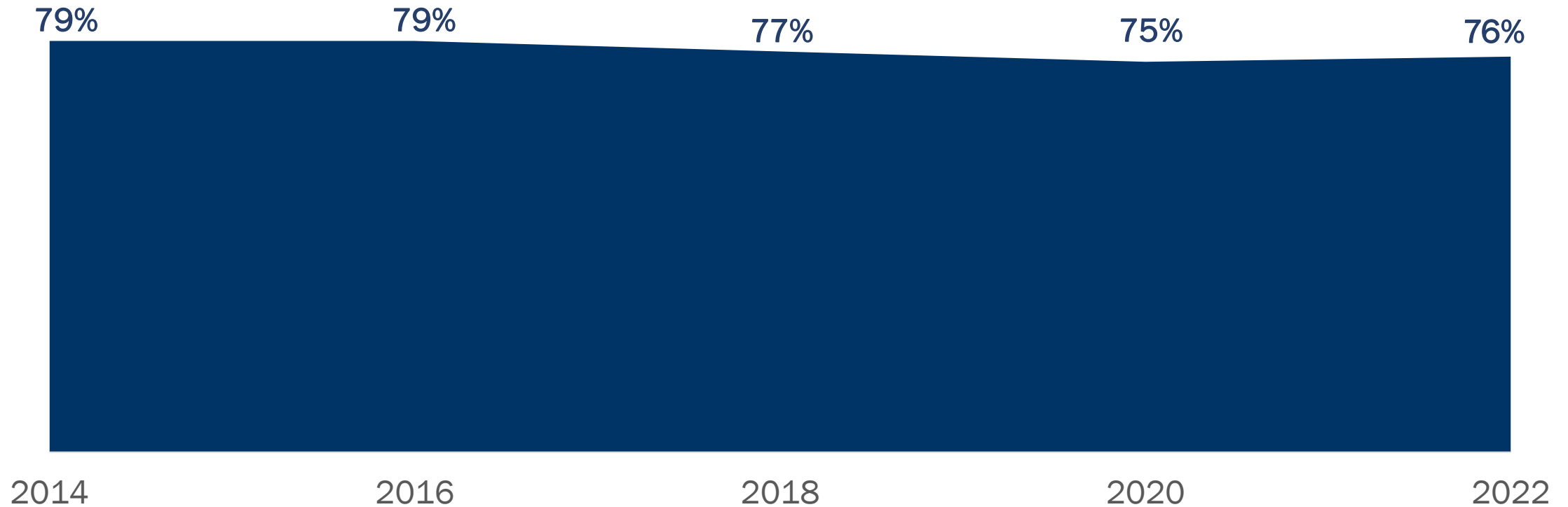
**Vermonters with a disability** are less likely to be screened for breast cancer than those without a disability.

All other rates are similar to a group of comparison.



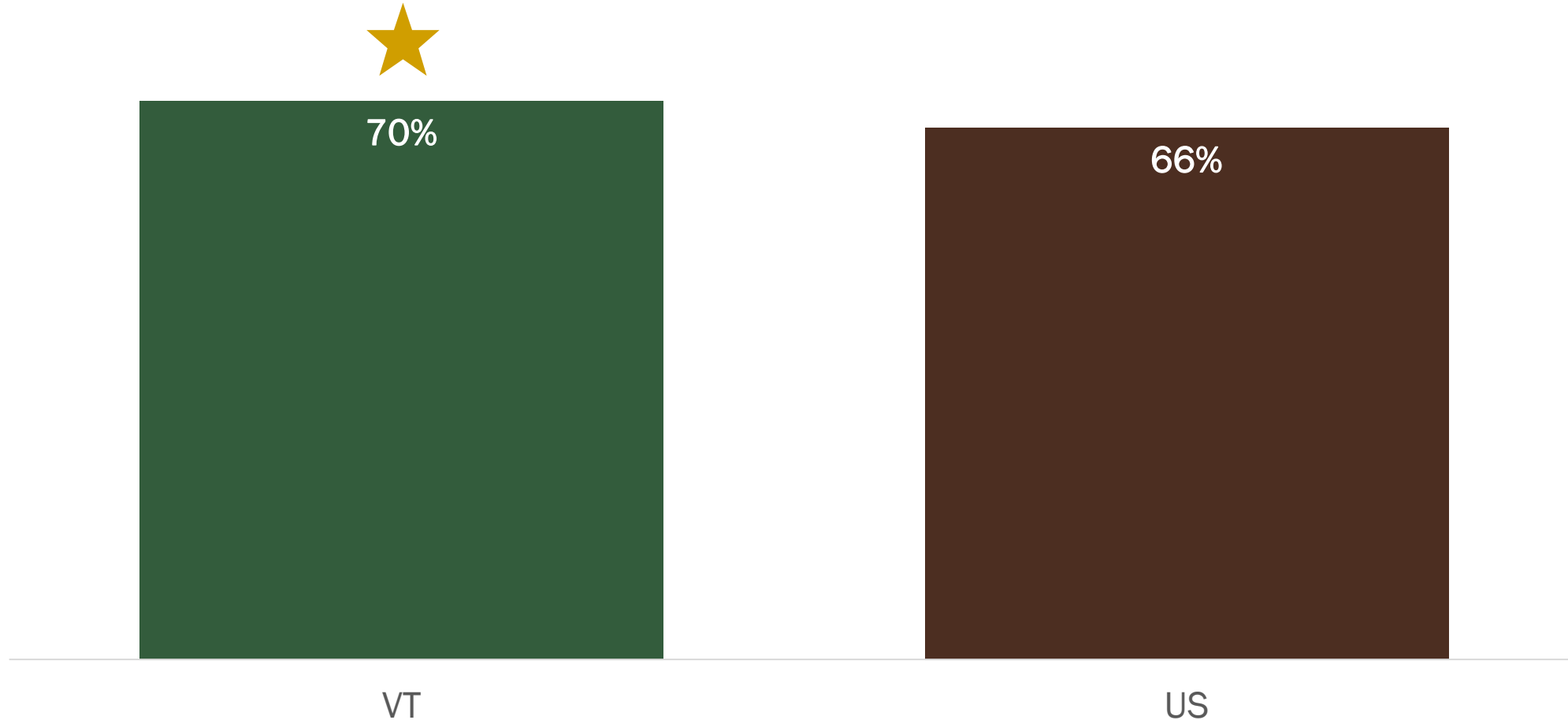
# Breast Cancer Screening

The % of females ages 50-74 screened for breast cancer declined from 2016 to 2020, but the 2022 rate is similar to the 2014 rate.



# Colorectal Cancer Screening 45-75

Vermonters meet colorectal cancer screening recommendations at a higher rate than the US population.



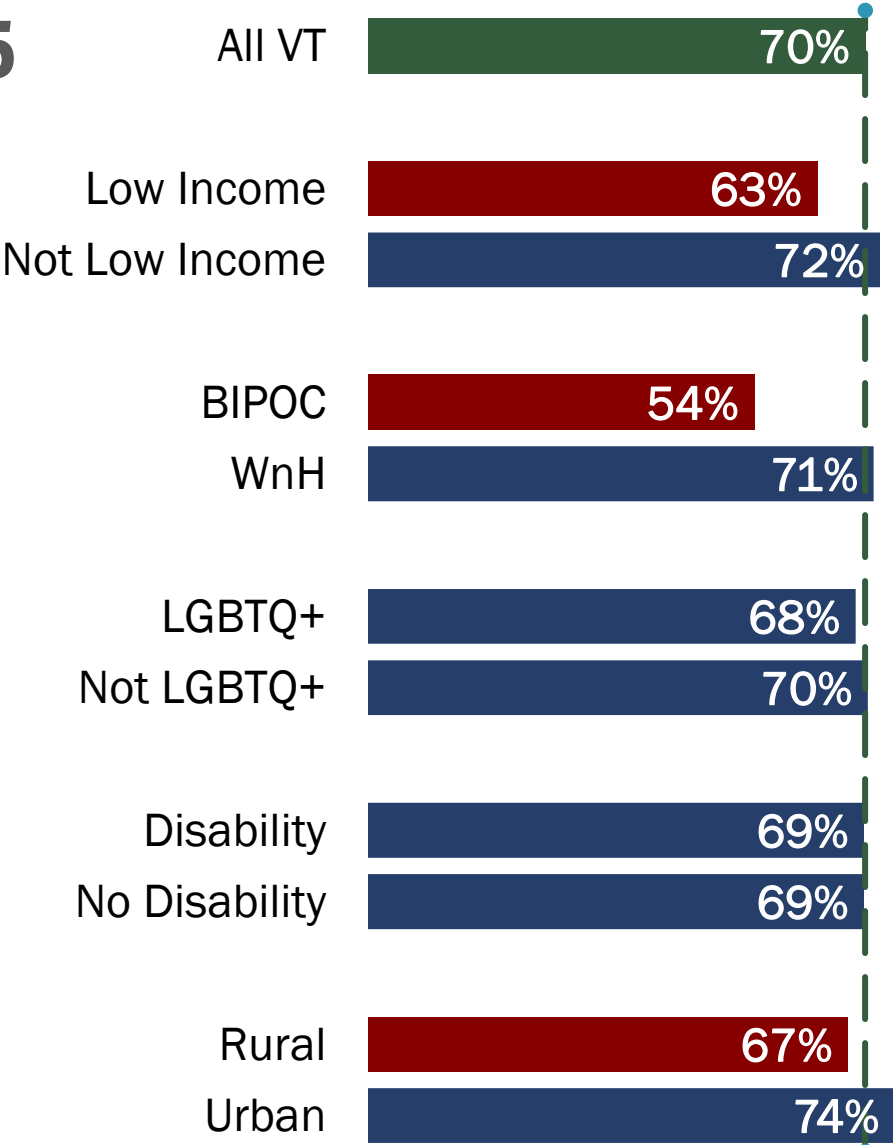
2022 is the first year data were collected for this measure among adults ages 45-75, so county-level data are not available.

Vermont Department of Health Source: BRFSS 2022

# Colorectal Cancer Screening 45-75

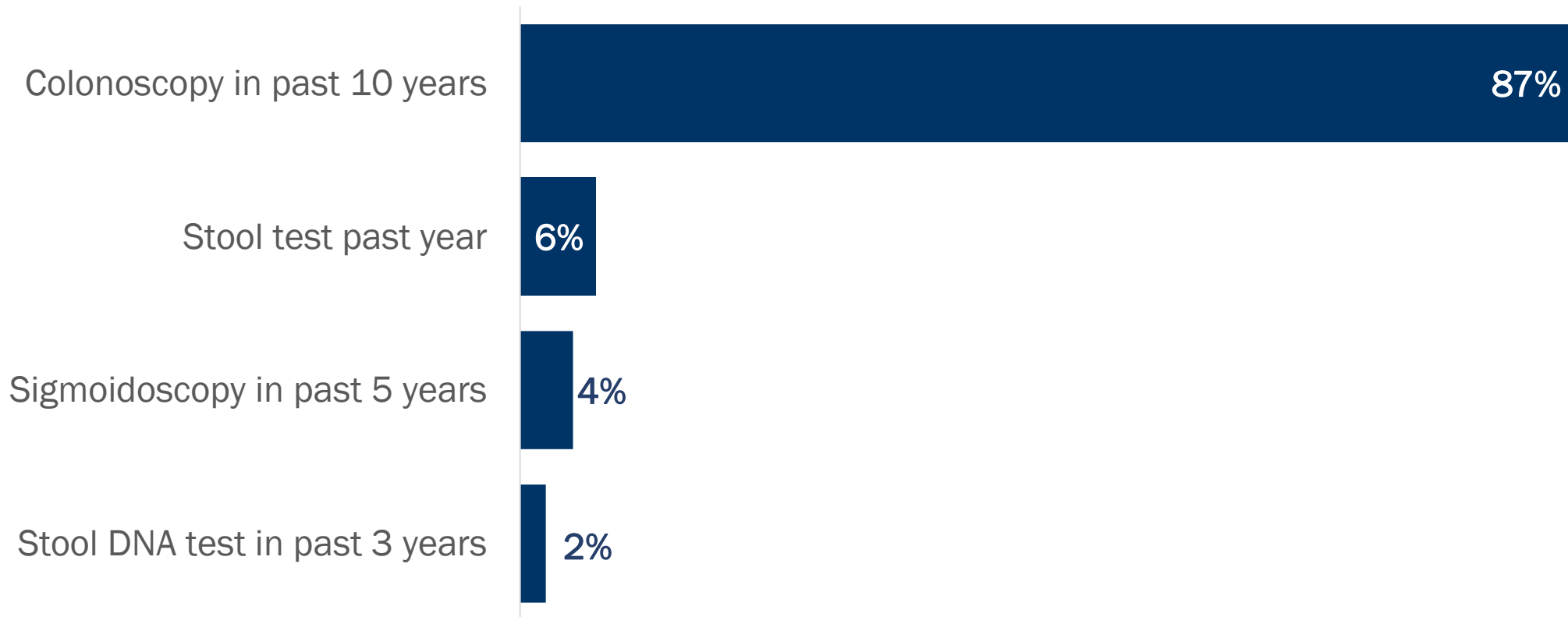
**Vermont adults with a low-income, BIPOC adults and those living in rural areas are less likely to be screening for colorectal cancer than a group of comparison.**

LGBTQ+ Vermonters and those with a disability are screening for colorectal cancer at rates similar to a group of comparison.



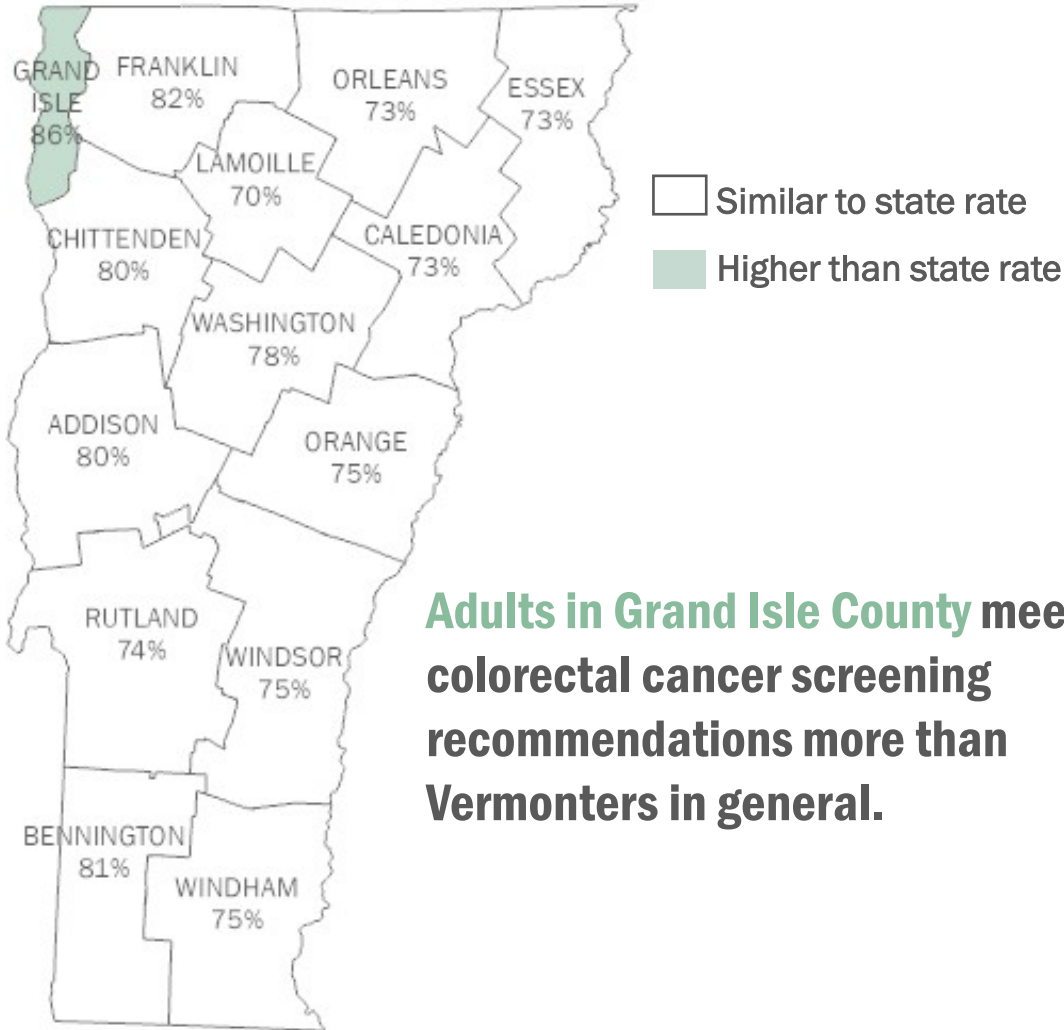
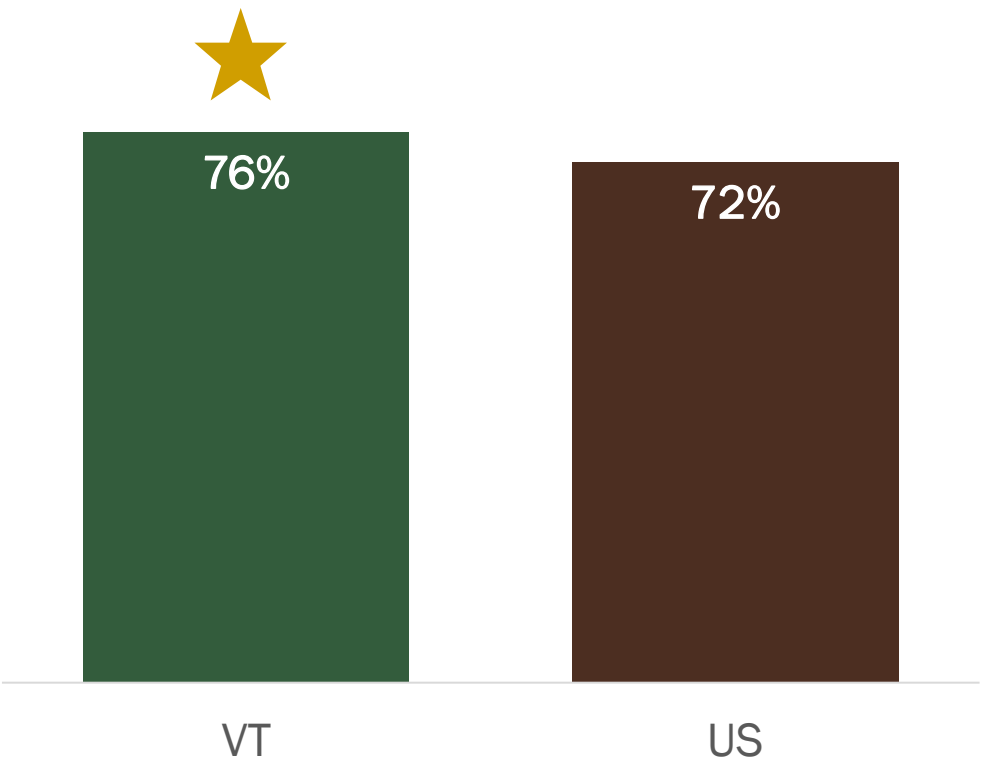
# Colorectal Cancer Screening 45-75

Most Vermonters who meet the colorectal cancer screening recommendations received a colonoscopy in the past 10 years.



# Colorectal Cancer Screening 50-75 (out-of-date recommendations)

**Vermonters ages 50-75 meet colorectal cancer screening recommendations more than US adults ages 50-75.**



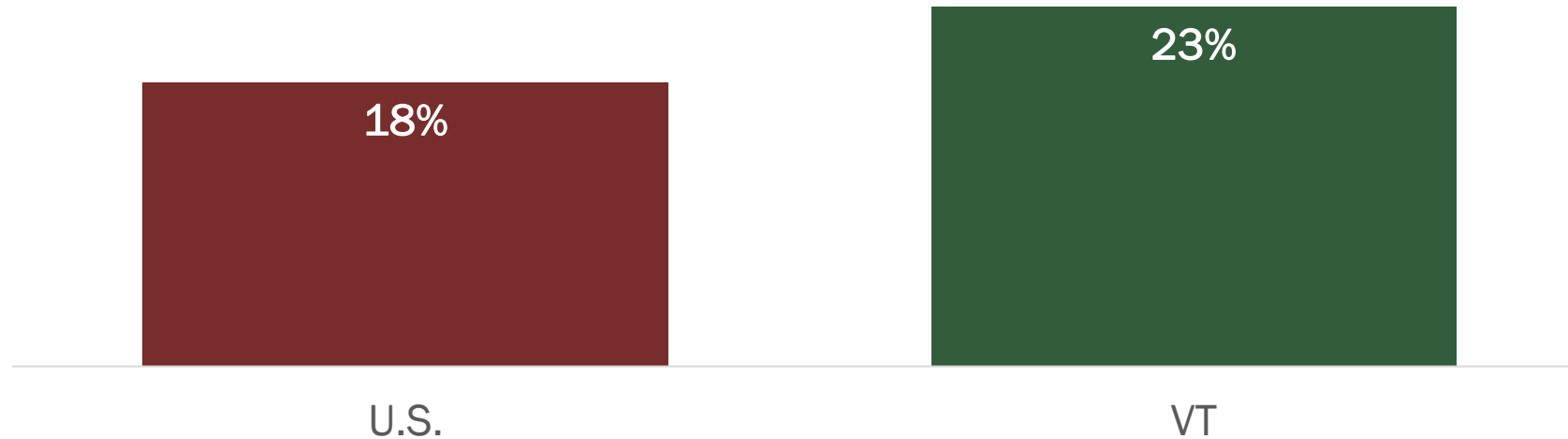
**Adults in Grand Isle County meet colorectal cancer screening recommendations more than Vermonters in general.**

Note: the USPSTF now recommends colorectal cancer screening for adults ages 45-75.



# Lung Cancer Screening (current recommendations)

Vermonters meet lung cancer screening recommendations at a similar rate as the U.S. population.



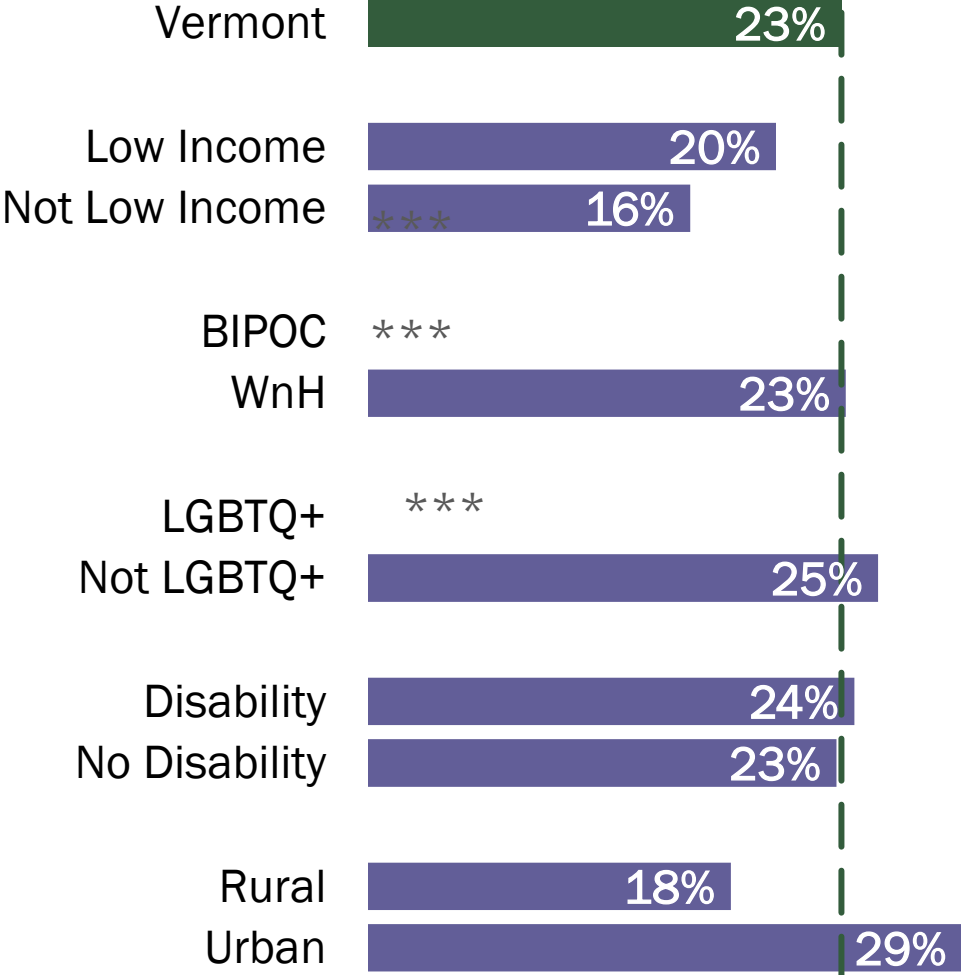
2022 was the first-year data were collected for this measure based on the 2021 USPSTF recommendations, so county-level data are not yet available.

Vermont Department of Health Source: BRFSS 2022

See [slide 49](#) for current USPSTF recommendations

# Lung Cancer Screening (current recommendations)

Differences between groups in meeting lung cancer screening recommendations are not statistically significant.



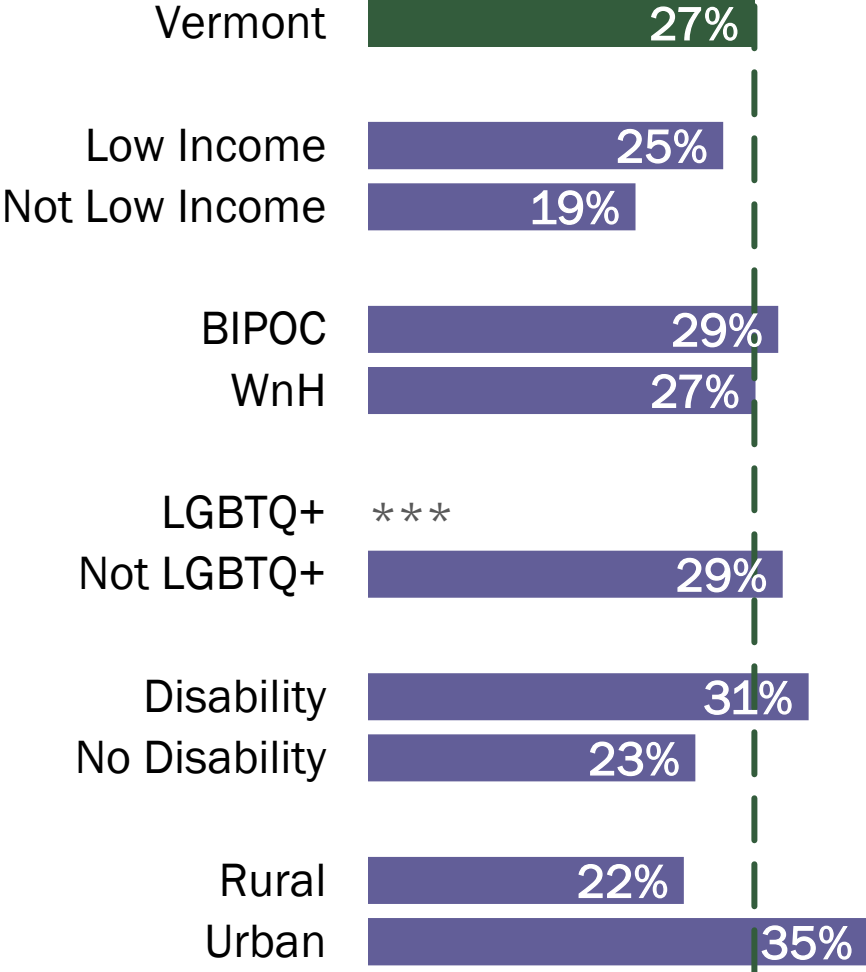
\*\*\*: value suppressed due to small sample size

See [slide 49](#) for current USPSTF recommendations

# Lung Cancer Screening (out-of-date recommendations)

Differences between groups in meeting lung cancer screening recommendations are not statistically significant.

See [archived USPSTF recommendations](#) for previous (until 2021) eligibility criteria.



\*\*\*: value suppressed due to small sample size

# Lung Cancer Screening Eligibility, Ages 50-80 (current recommendations)

Vermonters ages 50 to 80 are eligible for lung cancer screening at a similar rate as the U.S. population.



2022 is the first-year data were collected for this measure based on the 2021 USPSTF recommendations, so county-level data are not available yet.

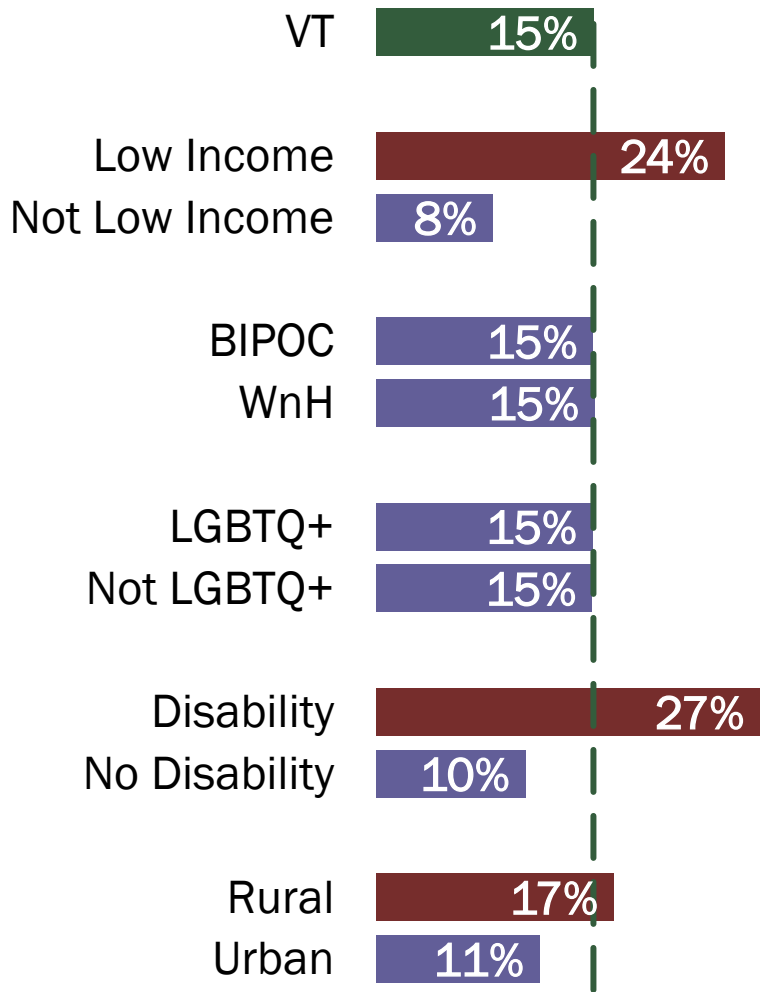
Vermont Department of Health Source: BRFSS 2022

See [slide 49](#) for current USPSTF recommendations

# Lung Cancer Screening Eligibility, Ages 50-80 (current recommendations)

**Vermont adults in homes with a low income, those with a disability and those that live in rural areas are more likely to be eligible for lung cancer screening (i.e. smoke heavily) than adults in homes without a low income, those without a disability and urban adults.**

Other differences between groups are not statistically significant.



# Chapter 4: Cancer Mortality

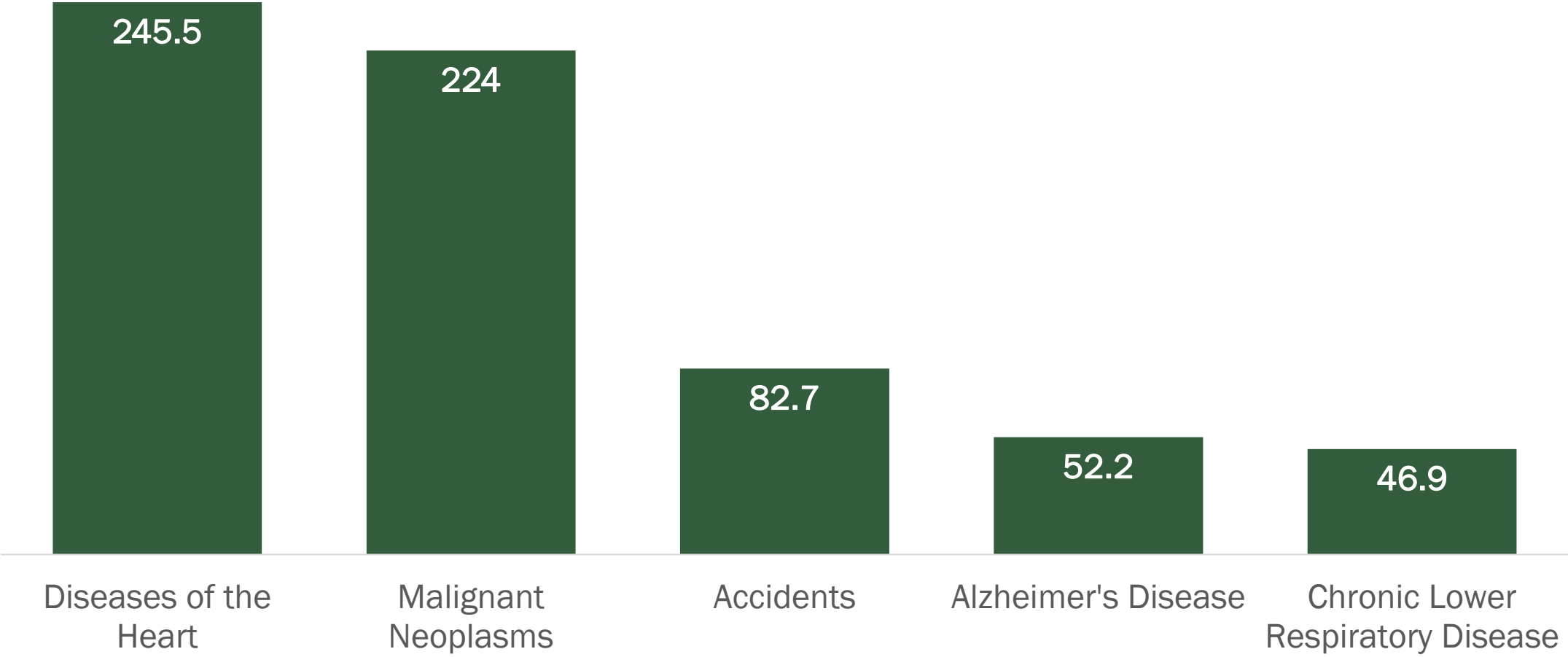
# Introduction: **Cancer Mortality**

*Cancer mortality* is the number of deaths from cancer occurring in a population during a year. Each year, almost 1,400 Vermonters die of cancer (Vermont Vital Statistics 2016-2020).

Five types of cancer make up the majority of new cancer diagnoses or cancer-related deaths. The sites in the body where these cancers occur are different for males and females. More commonly diagnosed cancers, such as melanoma, are not leading causes of cancer deaths because the chances of survival are higher. In contrast, certain cancers, such as pancreatic cancer, are less commonly diagnosed but much more likely to cause death.

# Cancer is a leading cause of death in Vermont.

Rates per 100,000 persons

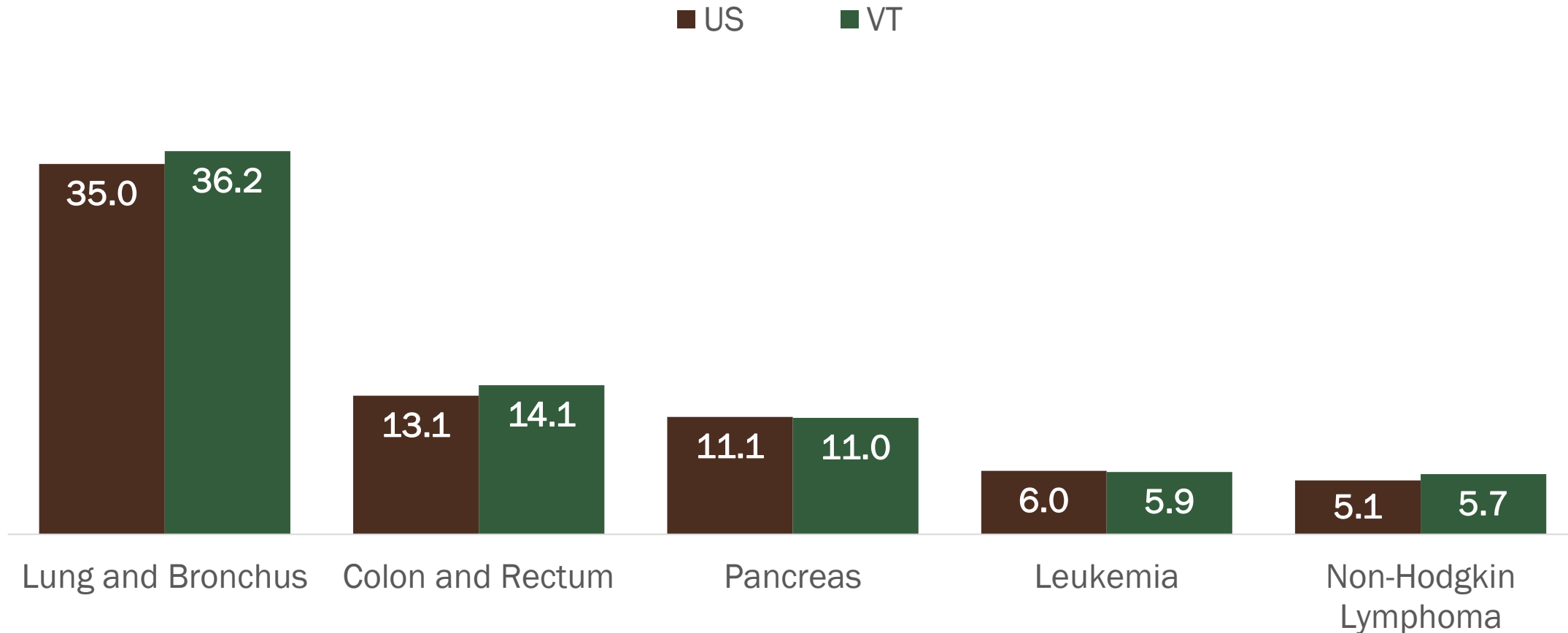


Vermont Department of Health Source: Vermont Vital Statistics 2021



# Vermont males and females have a similar mortality rate as the US population among the five most common cancers.

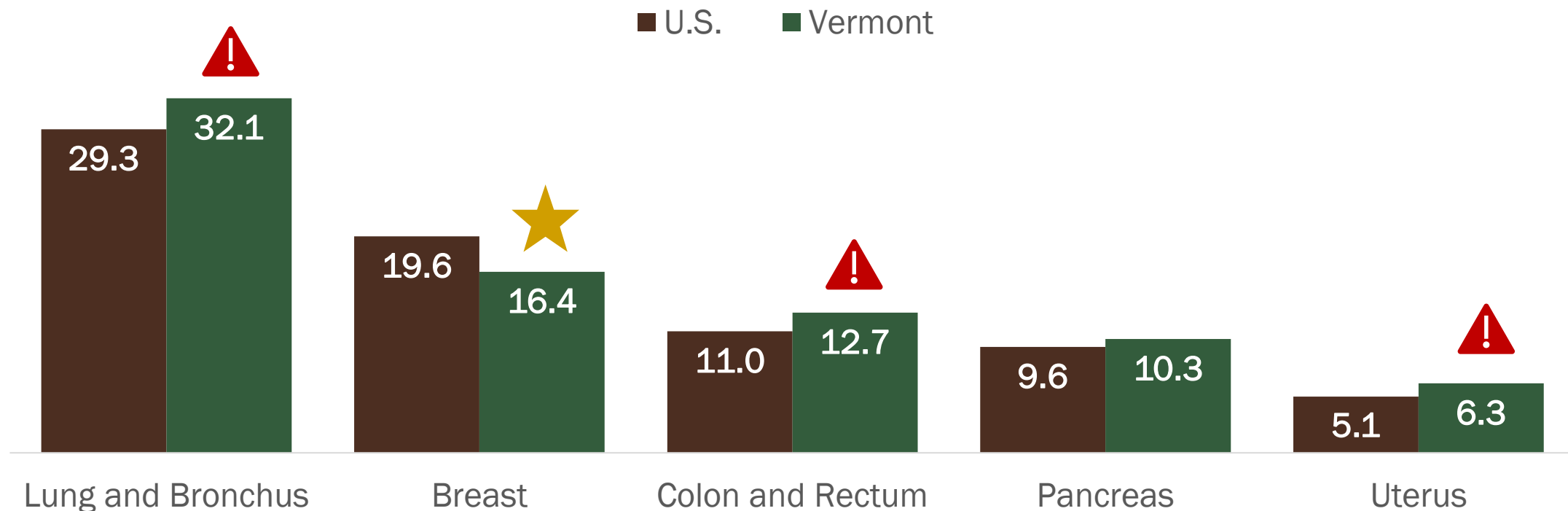
Rates per 100,000 persons



# Vermont females have a higher mortality rate of lung and bronchus, colon and rectum and uterus cancers than US females.

Vermont females have a lower mortality rate of breast cancer.

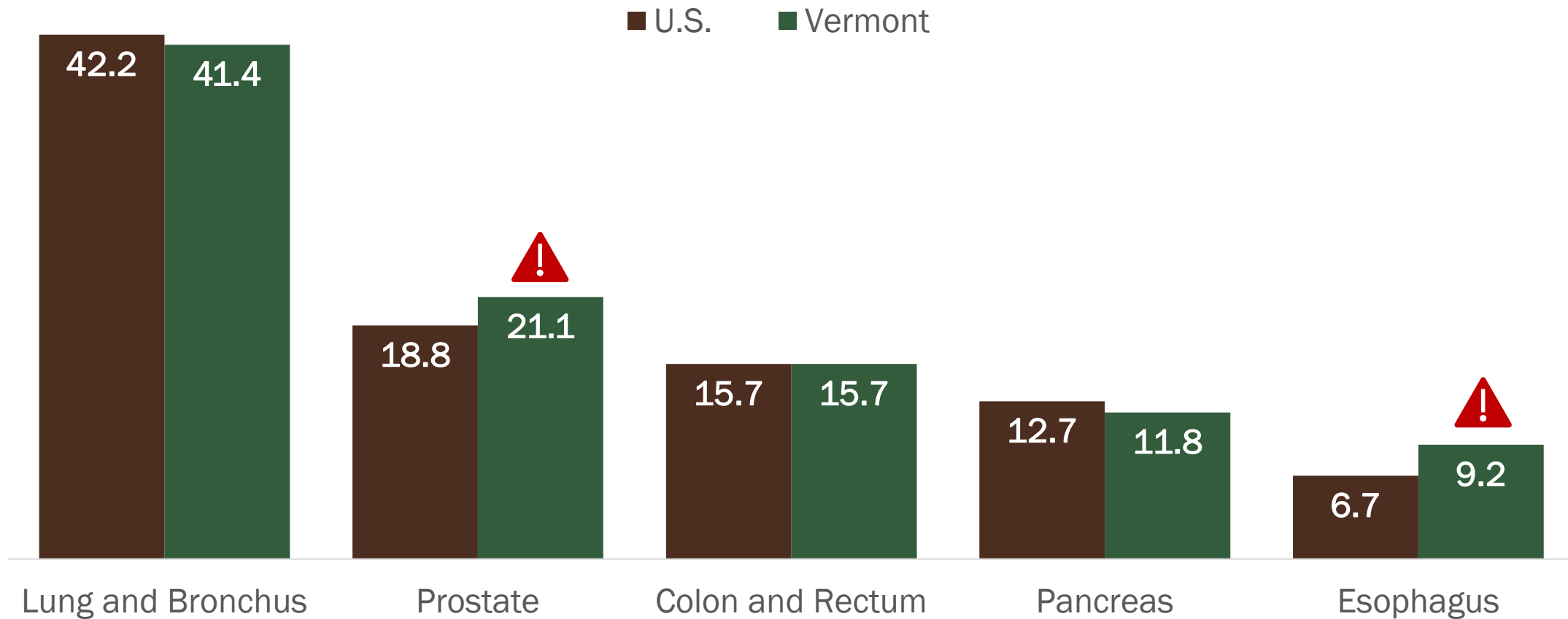
Rates per 100,000 persons



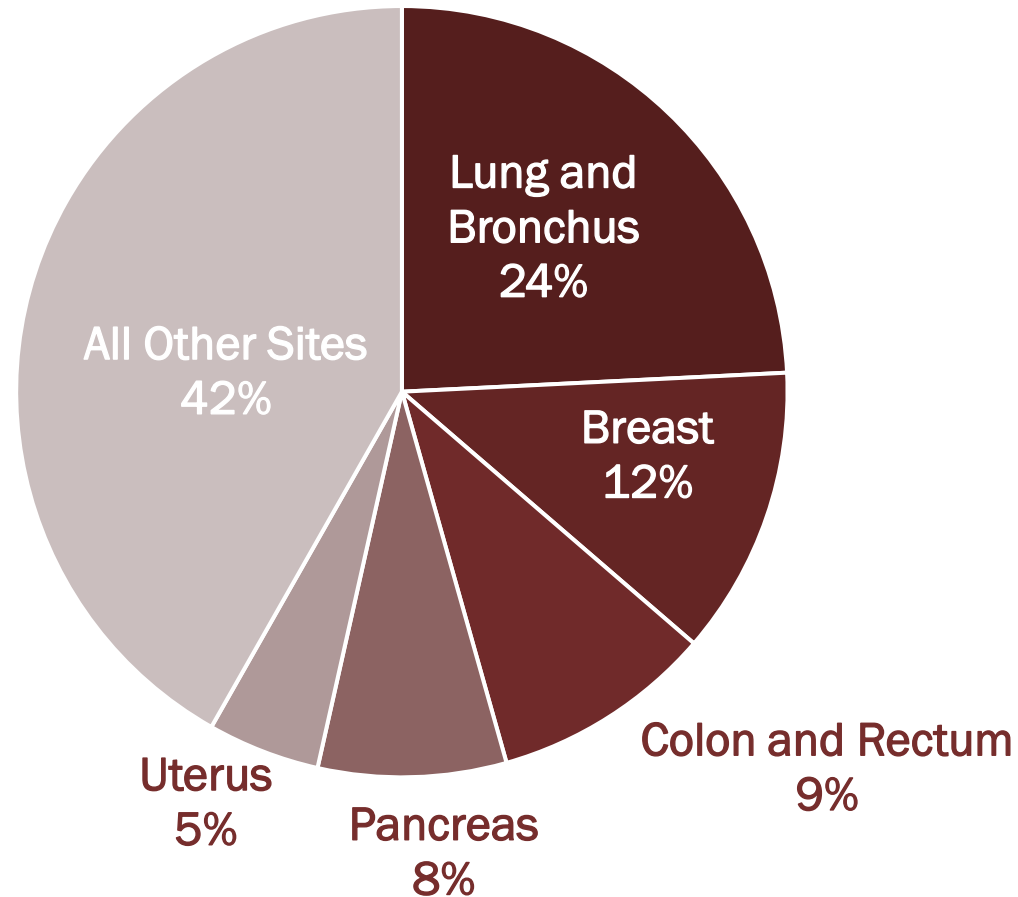
\* indicates significant difference between groups

# Vermont males have a higher mortality rate of prostate and esophagus cancers than U.S. males.

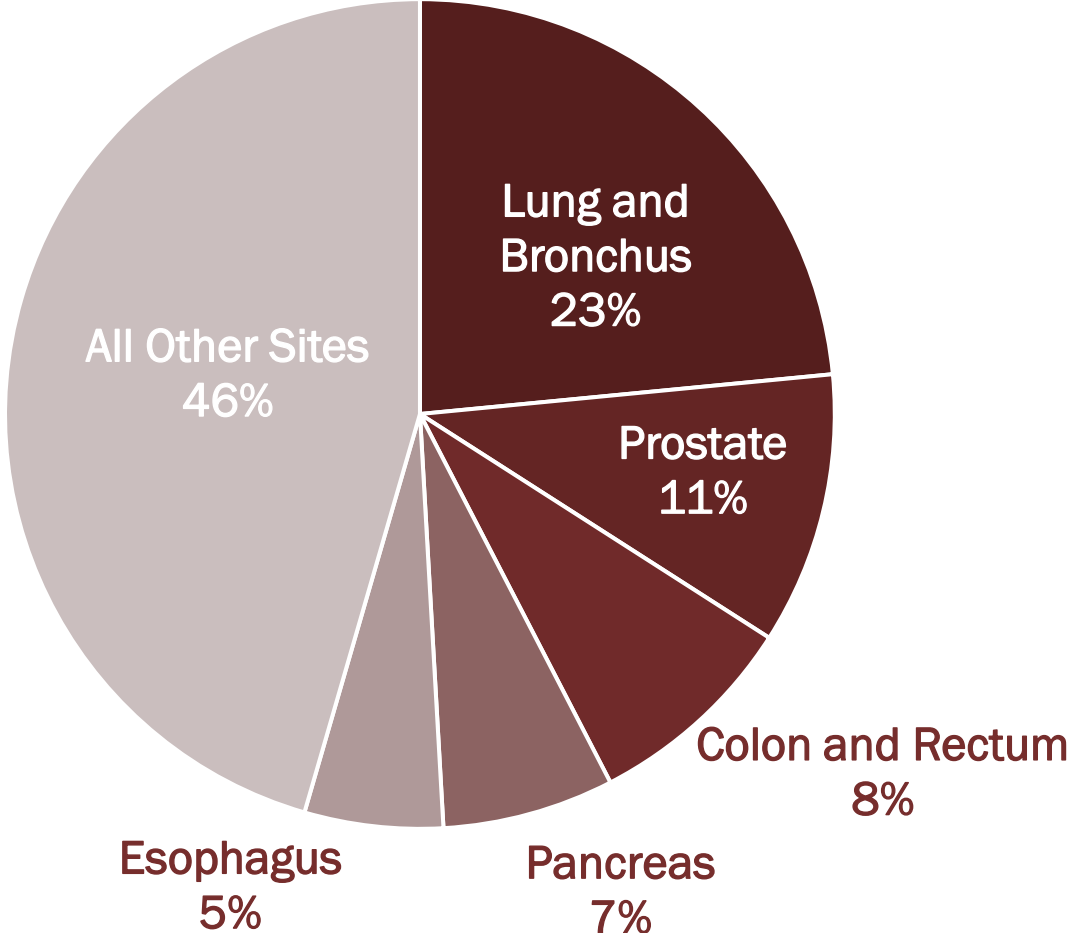
Rates per 100,000 persons



# Lung and breast cancers are the leading causes of cancer death for Vermont females.



# Lung cancer and prostate cancers are the leading causes of cancer death for Vermont males.



Vermont Department of Health Source: VCR 2016-2020, Vermont Vital Statistics 2016-2020

# Chapter 5: Cancer Survivorship

# Introduction: Cancer Survivorship

*Cancer prevalence* is the number or proportion of people alive today who have ever been diagnosed with cancer. This includes individuals who are newly diagnosed, in active treatment, have completed active treatment and those living with progressive symptoms of the disease. Prevalence is often compared to *incidence*, which is defined as the number or rate of new cancer diagnoses during a year.

A person who is diagnosed with cancer is most commonly called a *cancer survivor*, though this term is not universally accepted. Similarly, *survivorship* is the experience of those who have ever been diagnosed with cancer and describes the time from diagnosis to the end of the individual's life.

Throughout this presentation, *cancer* refers to any type of cancer except non-melanoma skin cancer.

**Note:** A major data source for this report is the Behavioral Risk Factor Surveillance Survey. Between 2021 and 2022, the survey changed how it asked about cancer diagnoses. Before 2022, the survey asked respondents if they had ever been diagnosed with a cancer *\*other than skin cancer\**. Beginning in 2022, the survey asks respondents if they have ever been diagnosed with *\*melanoma or any other type of cancer\**. This change means that the cancer prevalence rate appears to have increased from 2021 to 2022, though an analysis of the change suggests that the difference is really attributable to the fact that respondents with melanoma are now included in this result. Due to this change, rates of cancer prevalence in 2022 cannot be compared to previous rates.

# Skin Cancer Prevalence

**Vermont adults** have been diagnosed with skin cancer at rates similar to **US adults**.

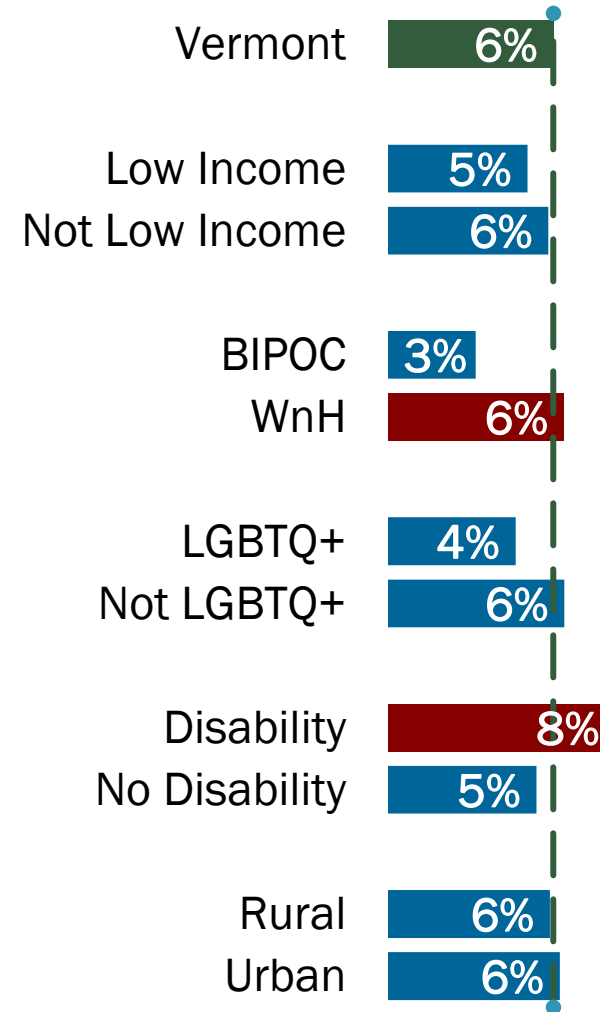




# Non-melanoma Skin Cancer Prevalence

**White, non-Hispanic adults and those with a disability are more likely to have skin cancer than a group of comparison.**

All other groups have similar rates to a group of comparison.



# Cancer Prevalence

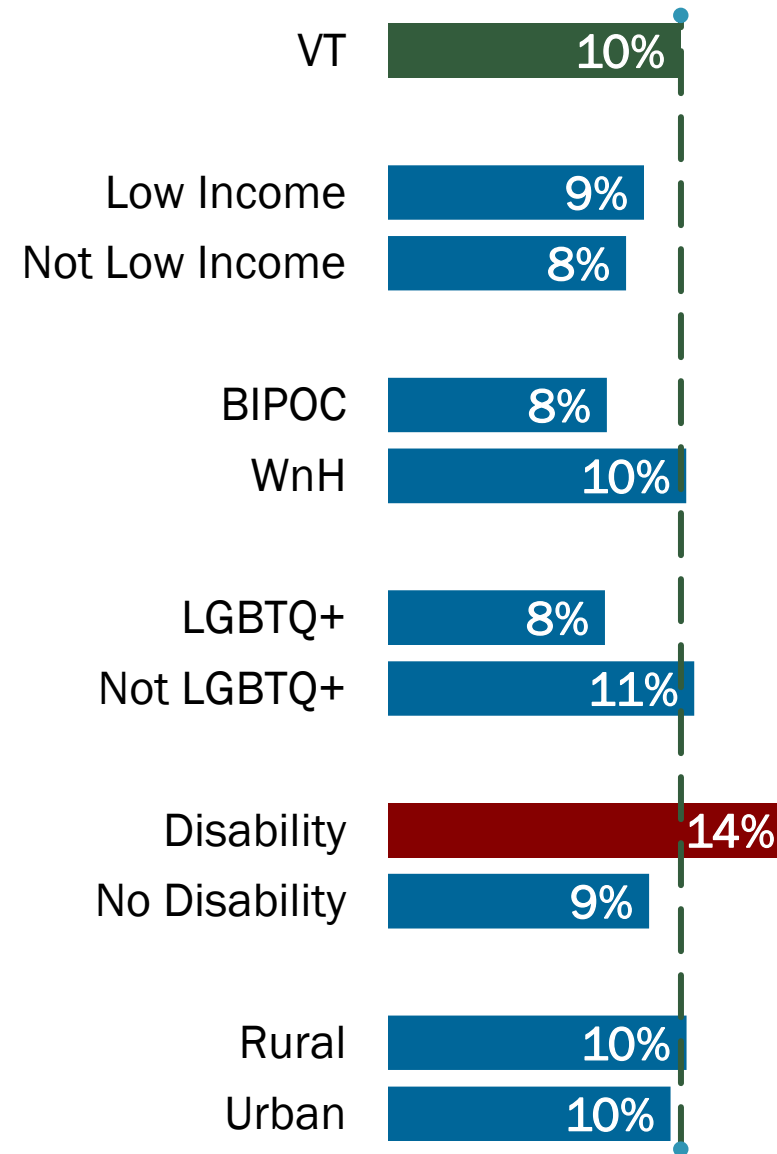
Vermonters have been diagnosed with cancer at a higher rate than the US population.



# Cancer Prevalence

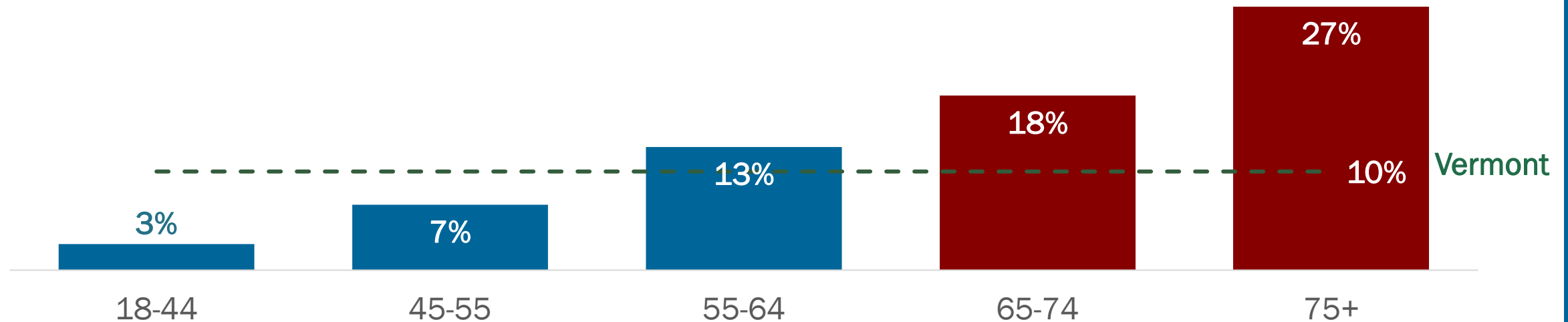
**Adults with a disability** are more likely to have cancer than a group of comparison.

All other groups have similar rates to a group of comparison.

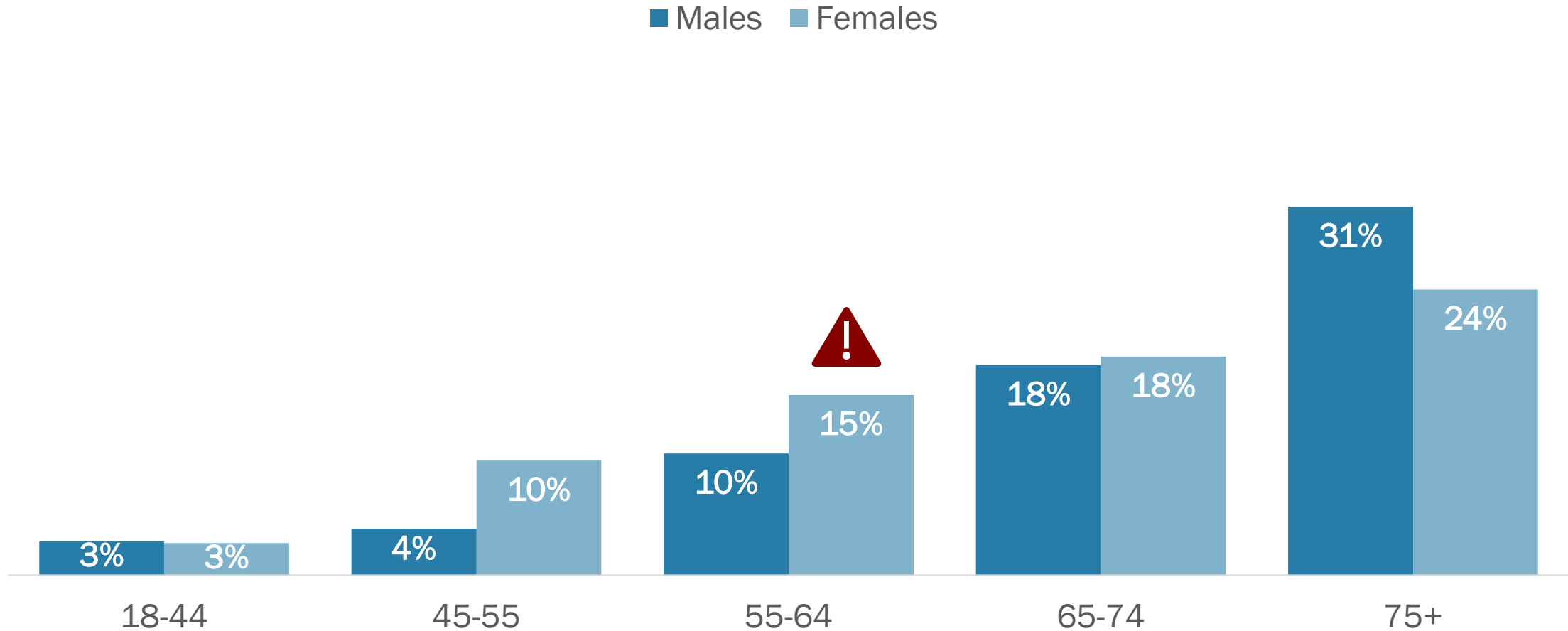


# The prevalence of cancer increases as age increases.

**Vermonters ages 65+** have been diagnosed with cancer more than Vermonters in general.

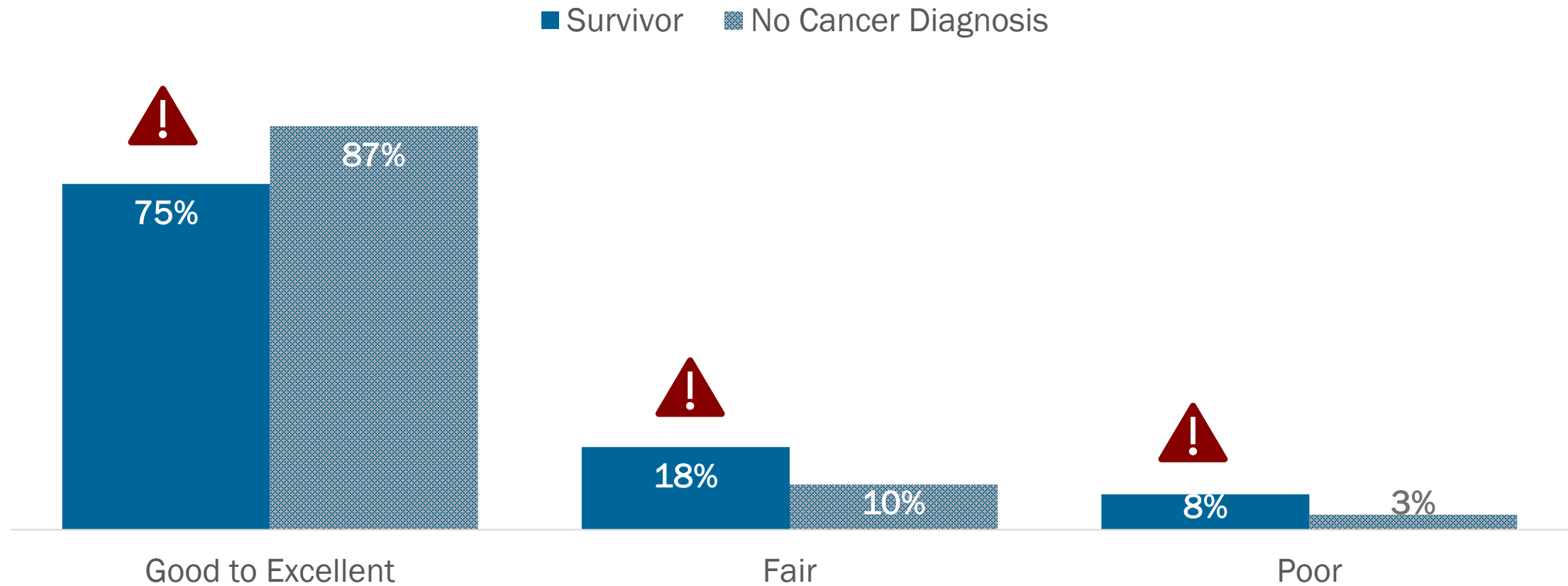


**Females** ages 55-64 are more likely to have been diagnosed with cancer than **males** of the same age.



# General Health

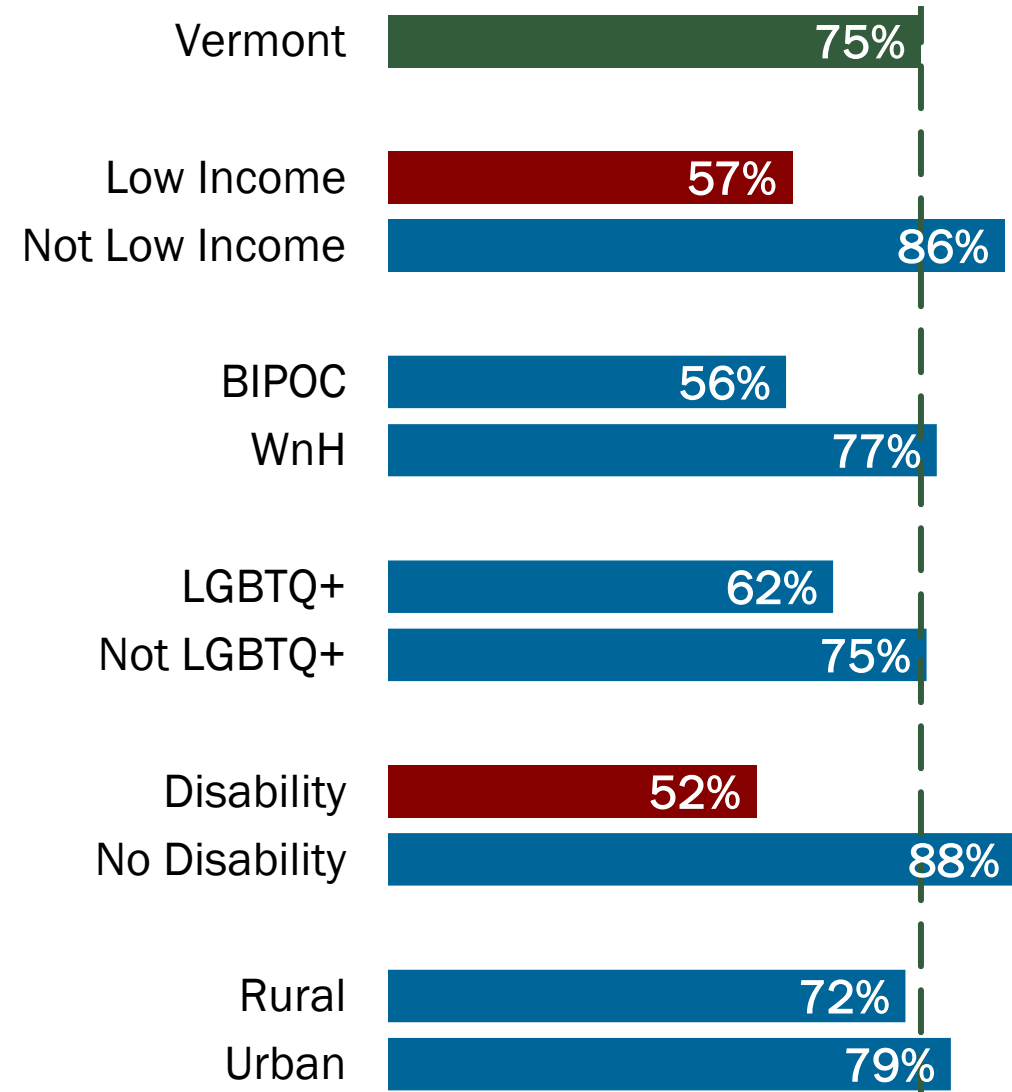
**Cancer survivors** report good or excellent health less and fair and poor health more than those without a cancer diagnosis.



# General Health Among Survivors

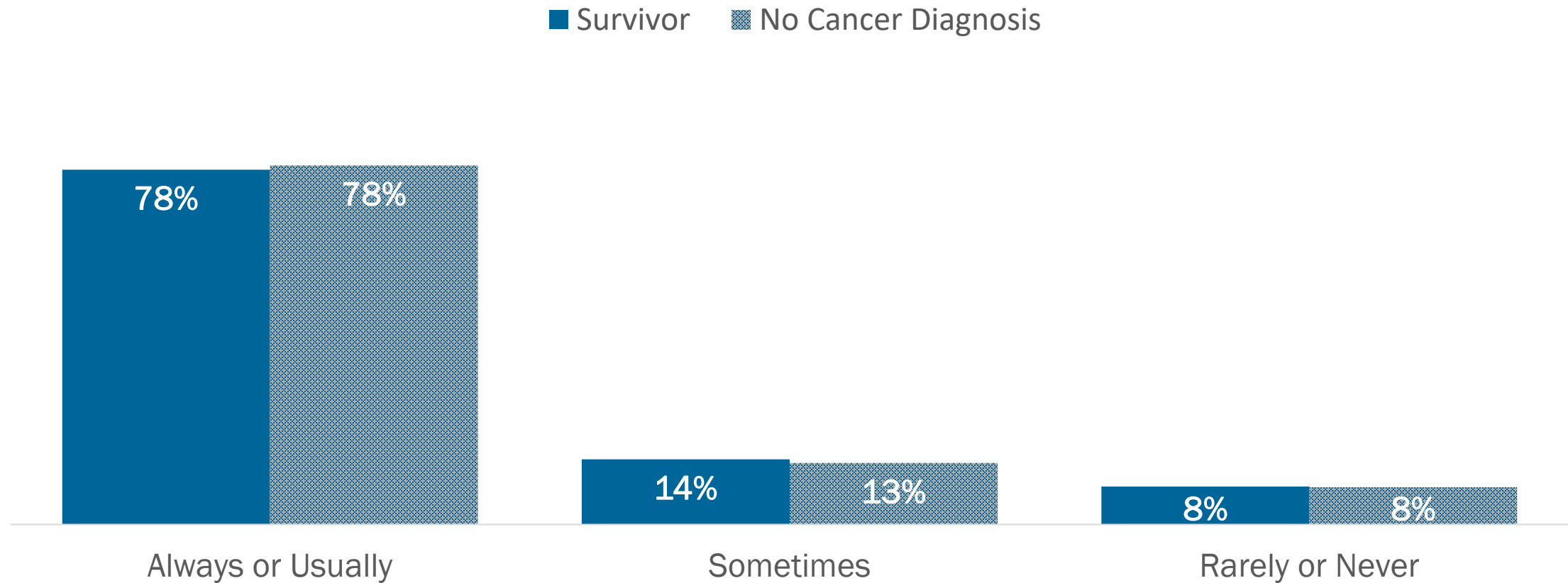
**Adults with a low income and those with a disability are less likely to report good to excellent general health than a group of comparison.**

All other groups have similar rates to a group of comparison.



# Emotional or Social Support

Cancer survivors receive emotional and social support at a similar rate as those never diagnosed with cancer.

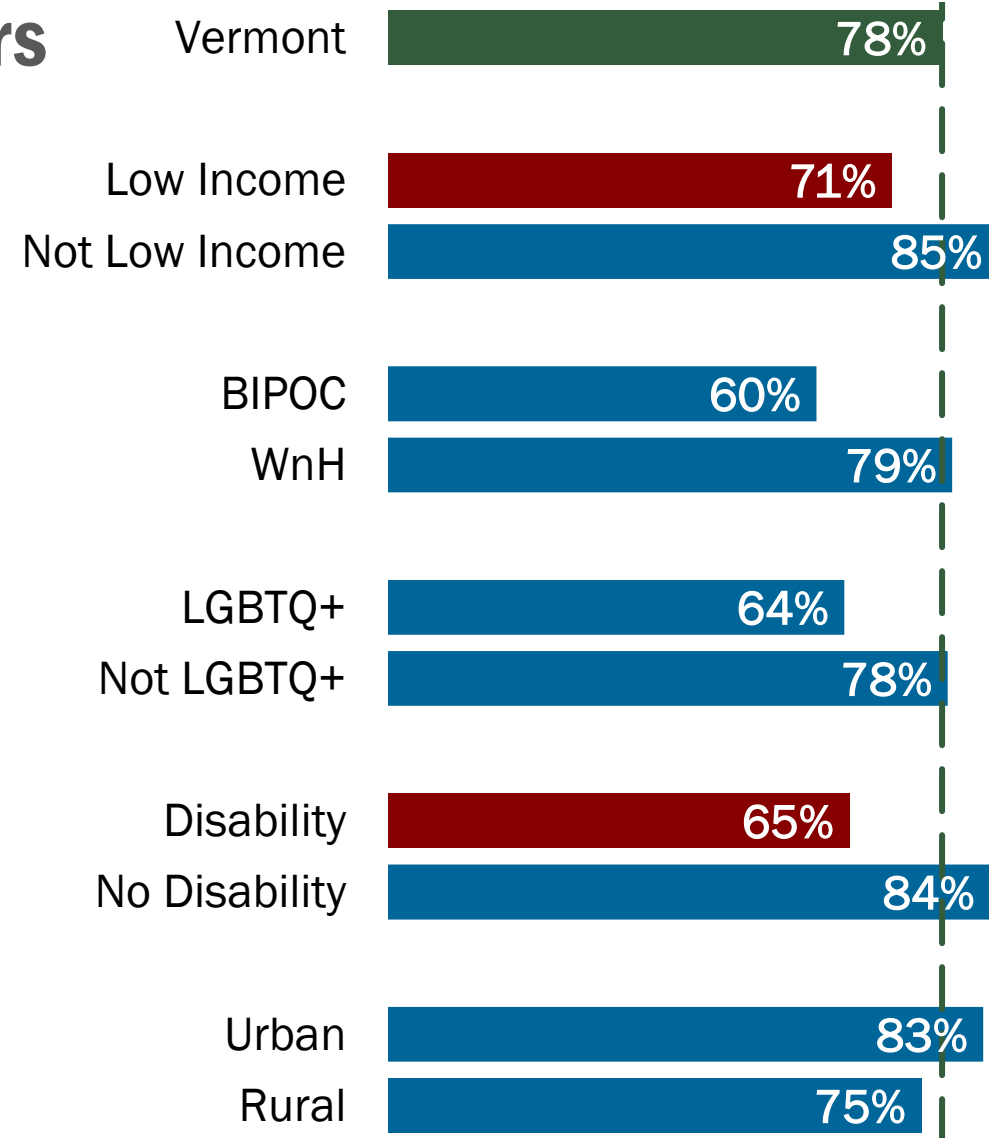




# Emotional Support Among Survivors

**Adult survivors with a low income and those with a disability are less likely to report good to excellent general health than a group of comparison.**

All other groups have similar rates to a group of comparison.



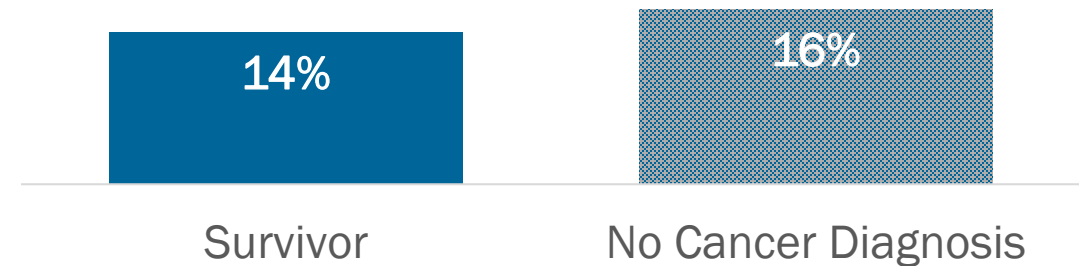
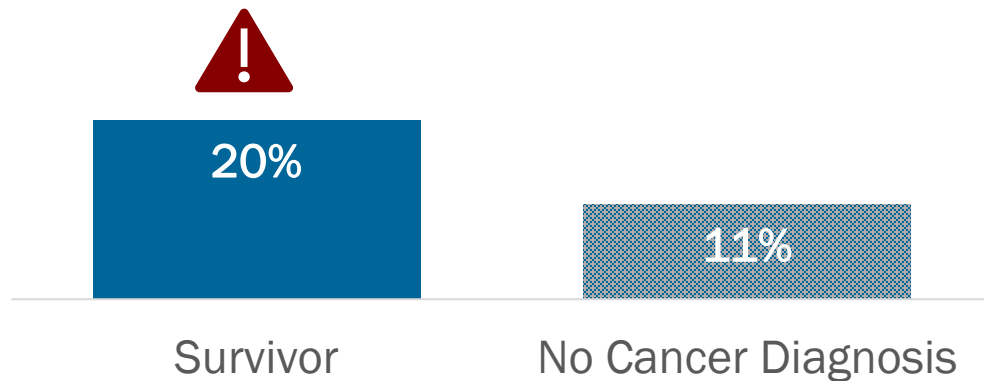
# Poor Physical and Mental Health



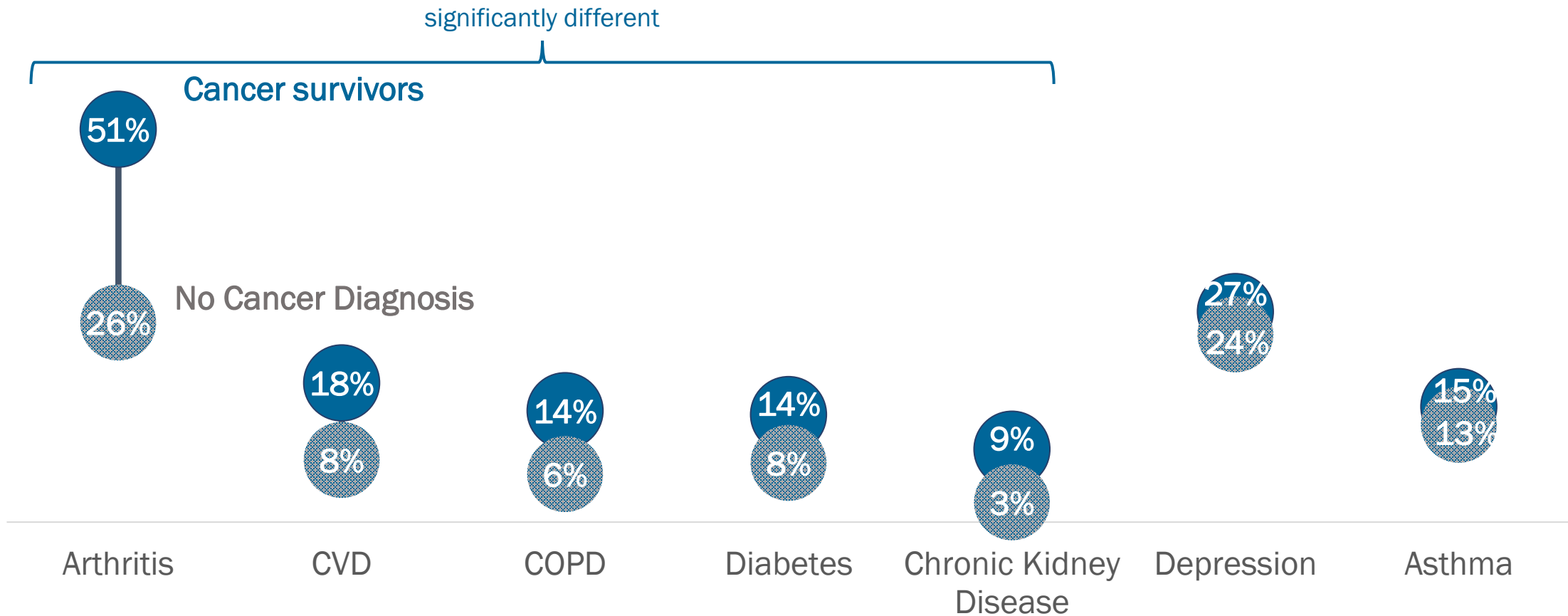
Cancer survivors are more likely to report poor physical health more than 13 days a month than those never diagnosed with cancer.



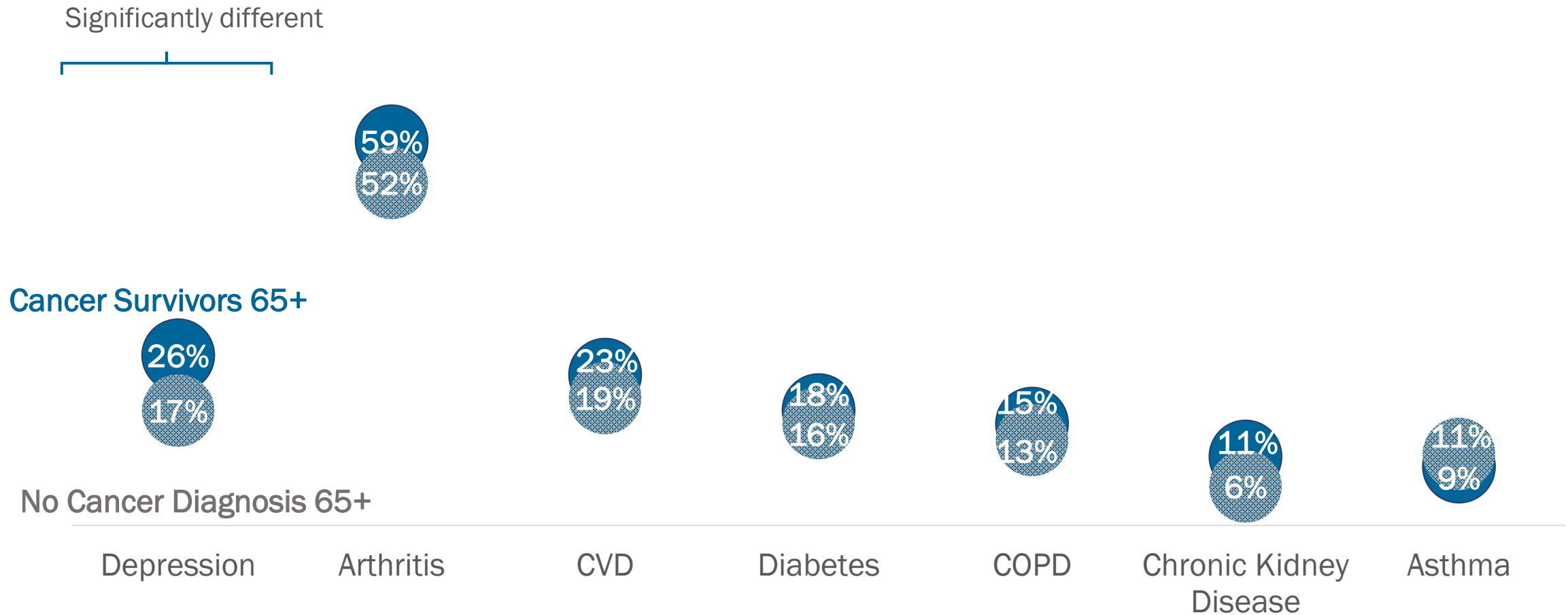
Cancer survivors and those never diagnosed with cancer report poor mental health more than 13 days a month at a similar rate.



# Cancer survivors are more likely to report arthritis, cardiovascular disease, COPD, diabetes and chronic kidney disease than those with no cancer diagnosis.



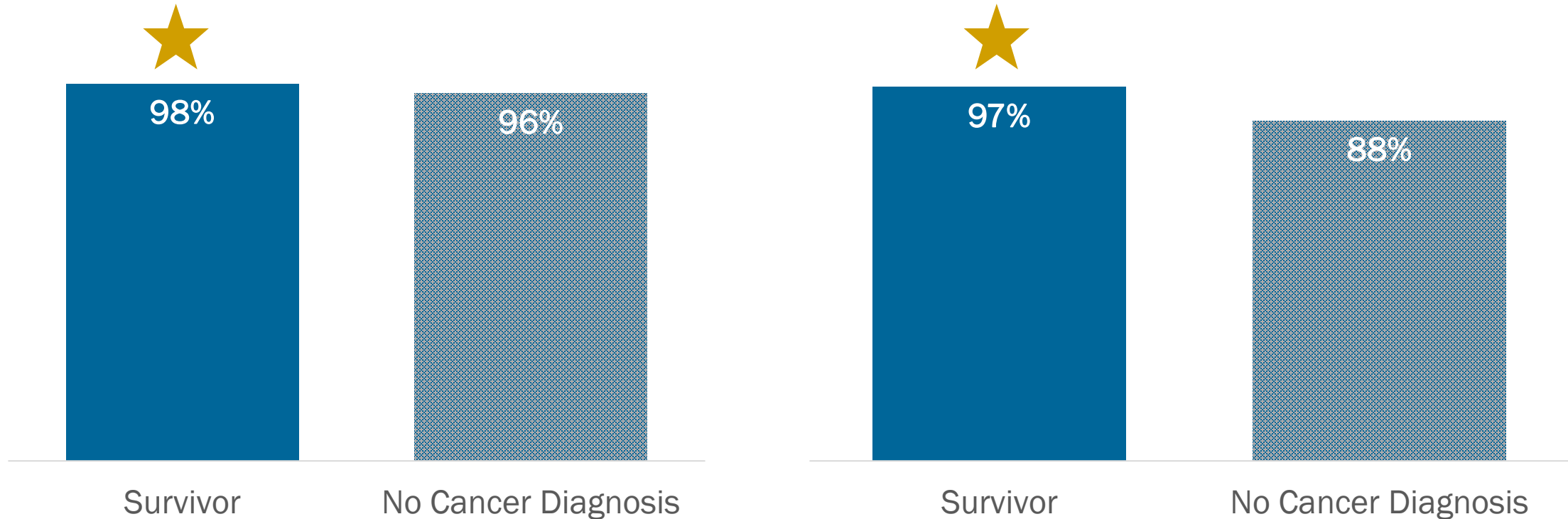
# When comparing Vermonters 65+ , cancer survivors are more likely to report depression than those with no cancer diagnosis.



# Cancer survivors are more likely to access health systems than those never diagnosed with cancer.

Cancer survivors are more likely to have **health coverage** than those never diagnosed with cancer.

Cancer survivors are more likely to have a **primary care provider** than those never diagnosed with cancer.



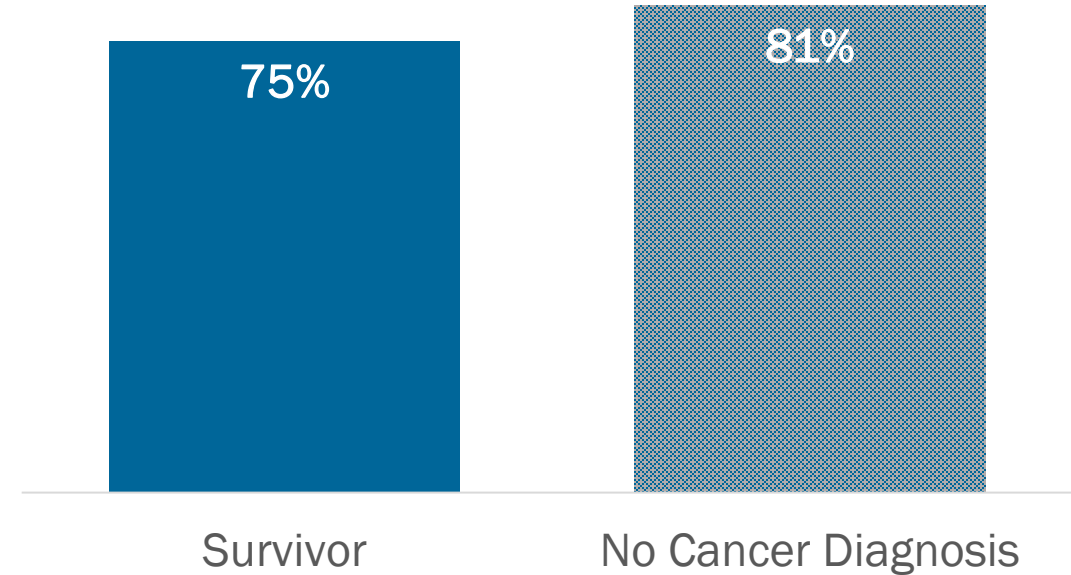
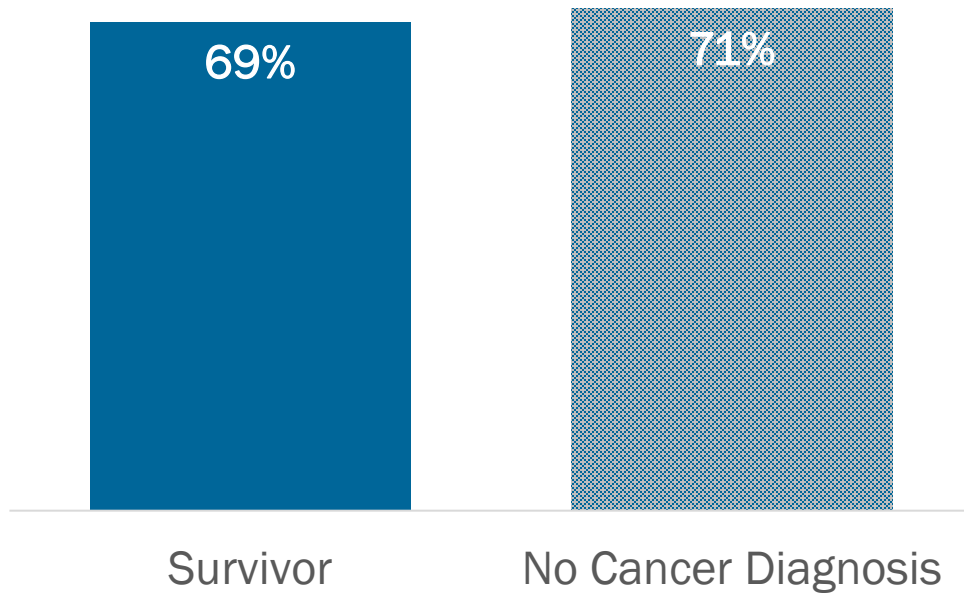
# Prevention



**Cancer survivors sleep 7 or more hours at a similar rate as those never diagnosed with cancer.**



**Cancer survivors participate in leisure-time physical activity at lower rates than those never diagnosed with cancer.**



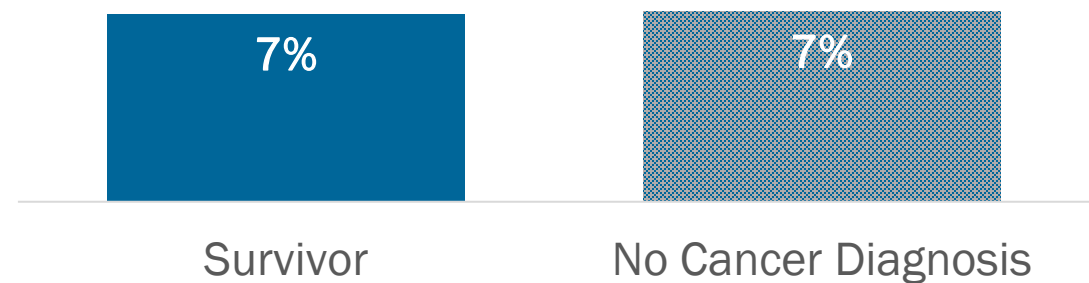
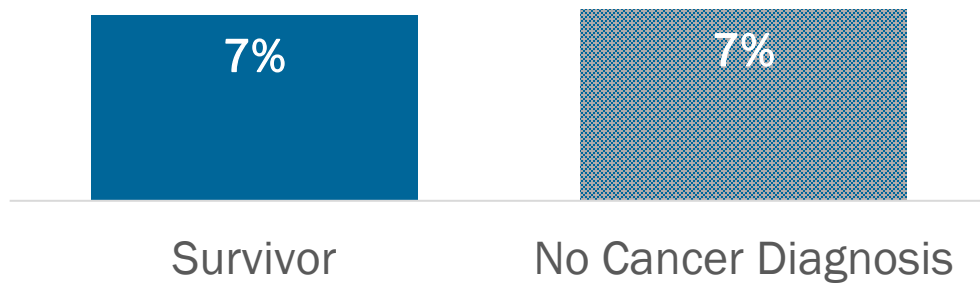
# Social Determinants of Health



Survivors and those with no cancer diagnosis report not having enough food in the past month at the same rate.



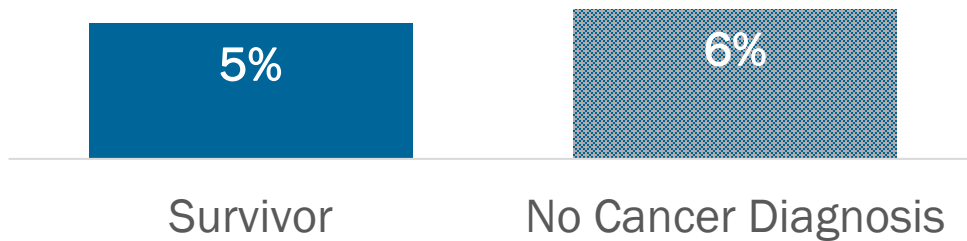
Survivors and those with no cancer diagnosis report having housing insecurity in the past month at the same rate.



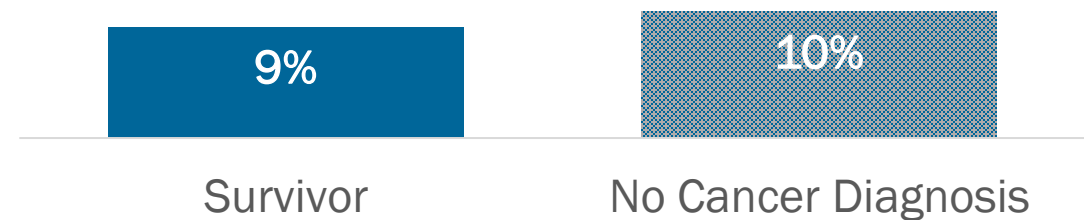
# Social Determinants of Health



Survivors and those with no cancer diagnosis report having transportation insecurity in the past month at a similar rate.



Survivors and those with no cancer diagnosis report having employment insecurity in the past month at a similar rate.

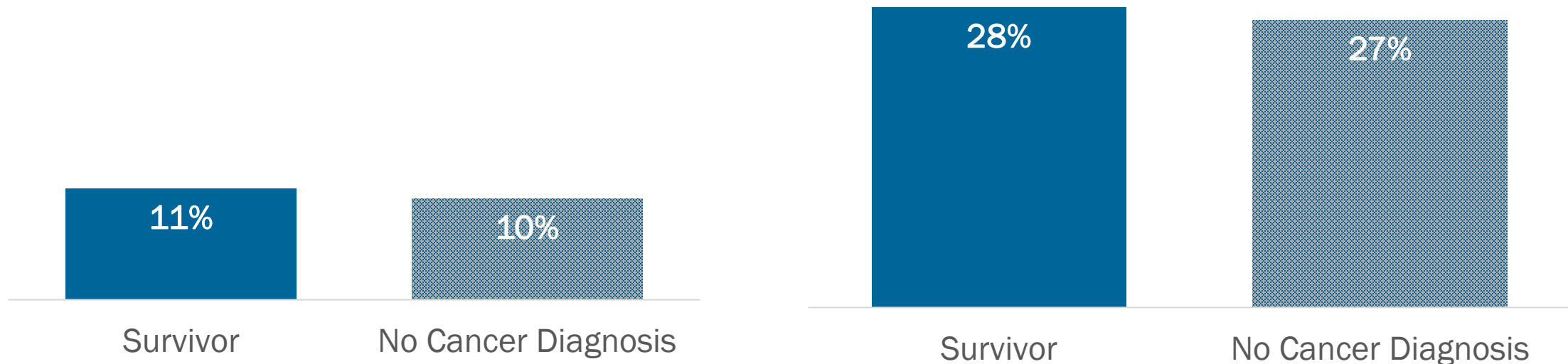




# Risk Factors: Drinking and Obesity

**Cancer survivors drink heavily at a similar rate as those never diagnosed with cancer.**

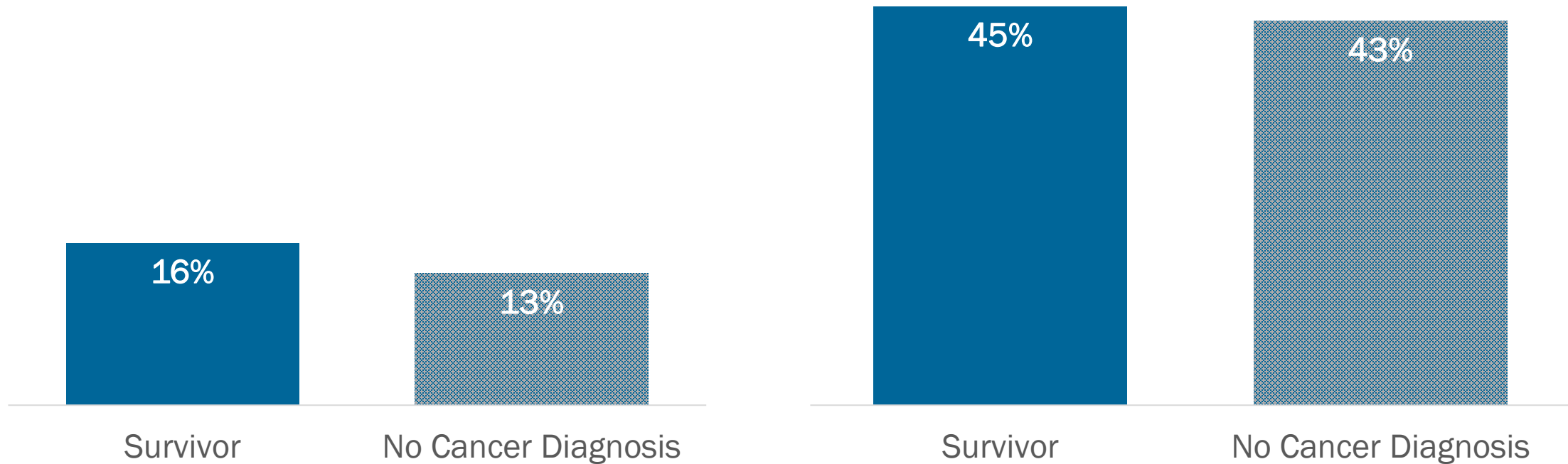
**Cancer survivors and those never diagnosed with cancer have obesity at a similar rate.**



# Tobacco-Use

**Cancer survivors use tobacco at a similar rate as those never diagnosed with cancer.**

**Cancer survivors and those never diagnosed with cancer who smoke make quit attempts at a similar rate.**



# Data Sources

**Behavioral Risk Factor Surveillance System (BRFSS):** Vermont tracks risk behaviors using this telephone survey of adults. The results are used to plan, support, and evaluate health promotion and disease prevention programs. Vermont, along with the 49 other states and three territories, has participated in the BRFSS with the Centers for Disease Control and Prevention (CDC) since 1990. An adult (18 or older) in the household is asked a uniform set of questions. The results are weighted to represent the adult population of the state.

**Youth Risk Behavior Survey (YRBS):** Every two years since 1993, the Department of Health's Division of Alcohol and Drug Abuse Program and the Department of Education's Coordinated School Health Programs have sponsored the YRBS. The YRBS measures the prevalence of behaviors that contribute to the leading causes of death, disease, and injury among youth. The YRBS is part of a larger effort to help communities increase the “resiliency” of young people by reducing high risk behaviors and promoting healthy behaviors.

**Vermont Immunization Registry (IMR):** A confidential system for maintaining immunization records for all Vermont residents and those who seek medical care in Vermont. It was designed, developed, and is operated by the Vermont Department of Health, and was first made available to providers in July 2004. It receives immunization data from medical providers, hospitals, health insurers, and increasingly, from pharmacies and nursing homes. The advantage of using the IMR for immunization data is that unlike survey information, it is much more comprehensive, and is not subject to selection bias. As is the case with any large database, the IMR has its limitations. It can be very difficult to keep up with the residences of all these individuals, resulting in a larger population base in the registry than actually live in the state of Vermont. The data shown in this chapter represent vaccine completion rates as of April 2023.

**Vermont Cancer Registry:** The Vermont Cancer Registry (VCR) is Vermont’s statewide population-based cancer surveillance system. The registry collects information about all cancers (except non-melanoma skin cancers and carcinoma in situ of the cervix) and all benign brain tumors diagnosed in Vermont. All statistics exclude in situ carcinomas except urinary bladder, unless indicated otherwise. Vermont cases include Vermont residents only.

**NPCR and SEER Incidence 1999-2020 Database (NPCR & SEER):** The U.S. incidence rates are based on the National Program of Cancer Registries (NPCR) and the Surveillance, Epidemiology, and End Results (SEER) Program Incidence State Restricted Access Data File (1999-2020).

**Vermont Vital Statistics:** The Vermont Department of Health vital statistics system tracks the following vital events that occur in Vermont: births, deaths, marriages, divorces and dissolutions, fetal deaths, and abortions. The Department of Health also receives abstracts for Vermont resident births and deaths that occur in other states which allows the Department to do statistical analyses of vital events involving Vermont residents, including those events which occurred outside of the state. The Vermont and the U.S. mortality rates are based on the Vermont Vital Statistics System, Vermont Department of Health (1994-2020) and the SEER Program Mortality - Aggregated Total U.S. (1990- 2020). Mortality data were coded using the International Classification of Disease Tenth Revision (ICD-10) coding system. Vermont deaths include Vermont residents only.

# Data Notes

**Age Adjustment:** Measures throughout this document from data from the Vermont Cancer Registry are age adjusted. Age adjustment eliminates variation that results from differences in a populations' age distributions.

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