



## NC STATEWIDE

### TOTAL POPULATION

10,488,084

### RACE AND ETHNICITY

- 1.1% American Indian / Alaska Native
- 2.9% Asian
- 21.1% Black or African American
- 9.8% Hispanic
- 0.1% Native Hawaiian & other Pacific Islanders
- 62.5% White
- 0.2% Additional races
- 2.2% Two or more races

### POPULATION CHARACTERISTICS

- 23.2% Rural
- 13.6% Below poverty level
- 4.6% Unemployment rate
- 14.6% No broadband access at home
- 68.0% GED / High school degree or higher



# UNC

## LINEBERGER COMPREHENSIVE CANCER CENTER

### DEFINING OUR CATCHMENT AREA

#### WHAT IS A CATCHMENT AREA?

"The 'catchment area' refers to the self-defined geographic area that each NCI-designated Cancer Center serves or intends to serve in the research it conducts, the communities it engages, and the outreach it performs.

"The catchment area provides a geographic scope for monitoring cancer trends, identifying pronounced socioeconomic- and health-related disparities, informing high impact translational science, and guiding the implementation of evidence-based interventions in clinical and community settings."<sup>(1)</sup>

#### WHAT IS UNC LINEBERGER'S CATCHMENT AREA?

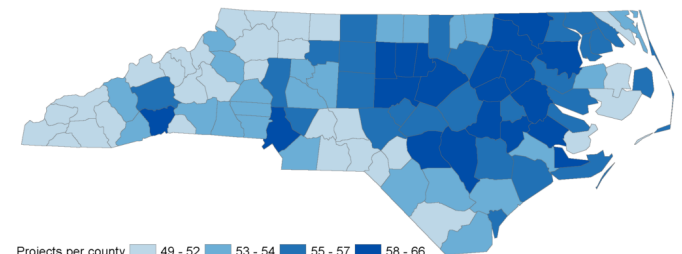
The entire state of North Carolina (NC), all 100 counties.  
UNC Lineberger is the only public comprehensive cancer center in NC.

#### QUICK NC FACTS

- NC is the 9th largest state in the nation <sup>(2)</sup>
- NC had the 6th largest population growth over last decade <sup>(2)</sup>
- NC is the 15th most rural state <sup>(3)</sup>
- NC is becoming more diverse, with children of color comprising almost half of the under 18 population <sup>(2)</sup>

#### OUTREACH EFFORTS THROUGH RESEARCH

UNC Lineberger research and outreach efforts span across all 100 counties, with every county having at least 49 active projects.



Updated: October 19, 2021

1. DelNero PF, Buller ID, Jones RR, Tatalovich Z, Vanderpool RC, Ciolino HP, Croyle RT. A National Map of NCI-Designated Cancer Center Catchment Areas on the 50th Anniversary of the Cancer Centers Program. *Cancer Epidemiol Biomarkers Prev.* 2022 May 4;31(5):965-71. DOI: 10.1158/1055-9965.

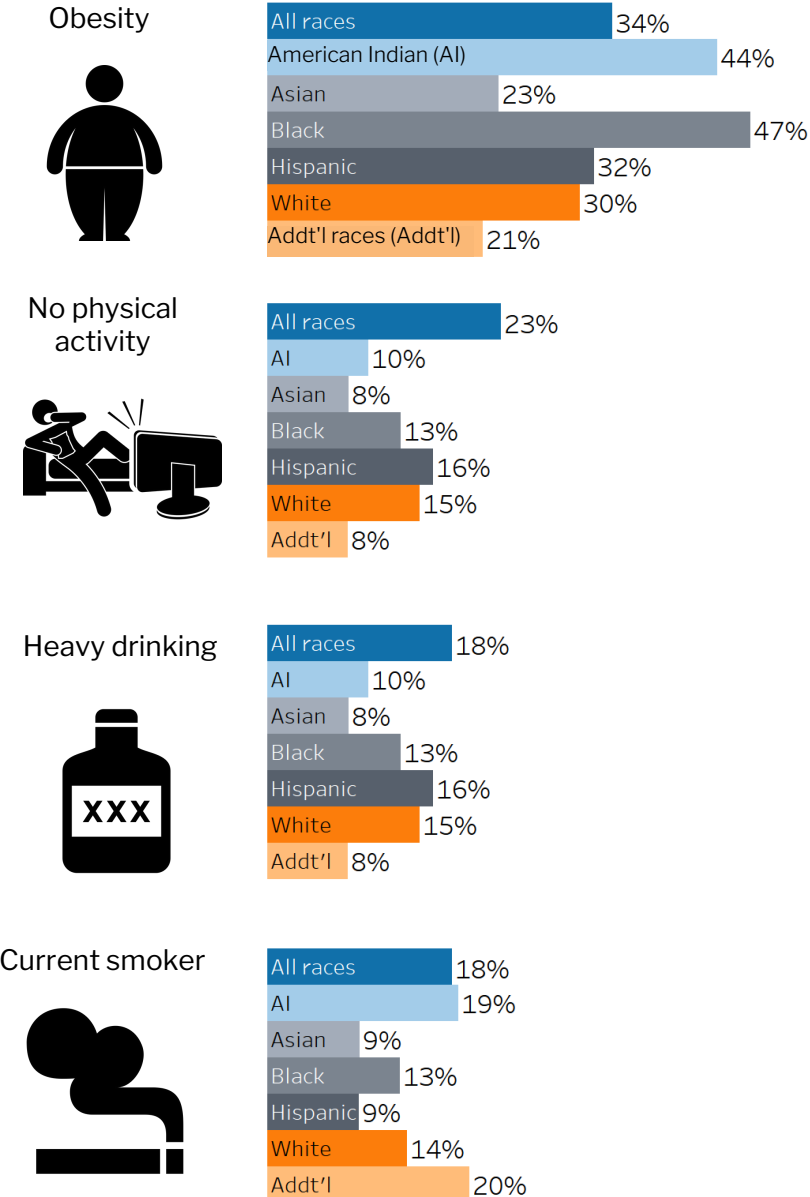
2. State Demographer of North Carolina. *North Carolina's Population: Short-term Challenges, Long-term Growth Factors.* North Carolina Office of State Budget and Management. 2021 May. <https://www.osbm.nc.gov/media/1866/open>.

3. *States with the biggest rural populations.* <https://stacker.com/stories/2779/states-biggest-rural-populations?page=5>.

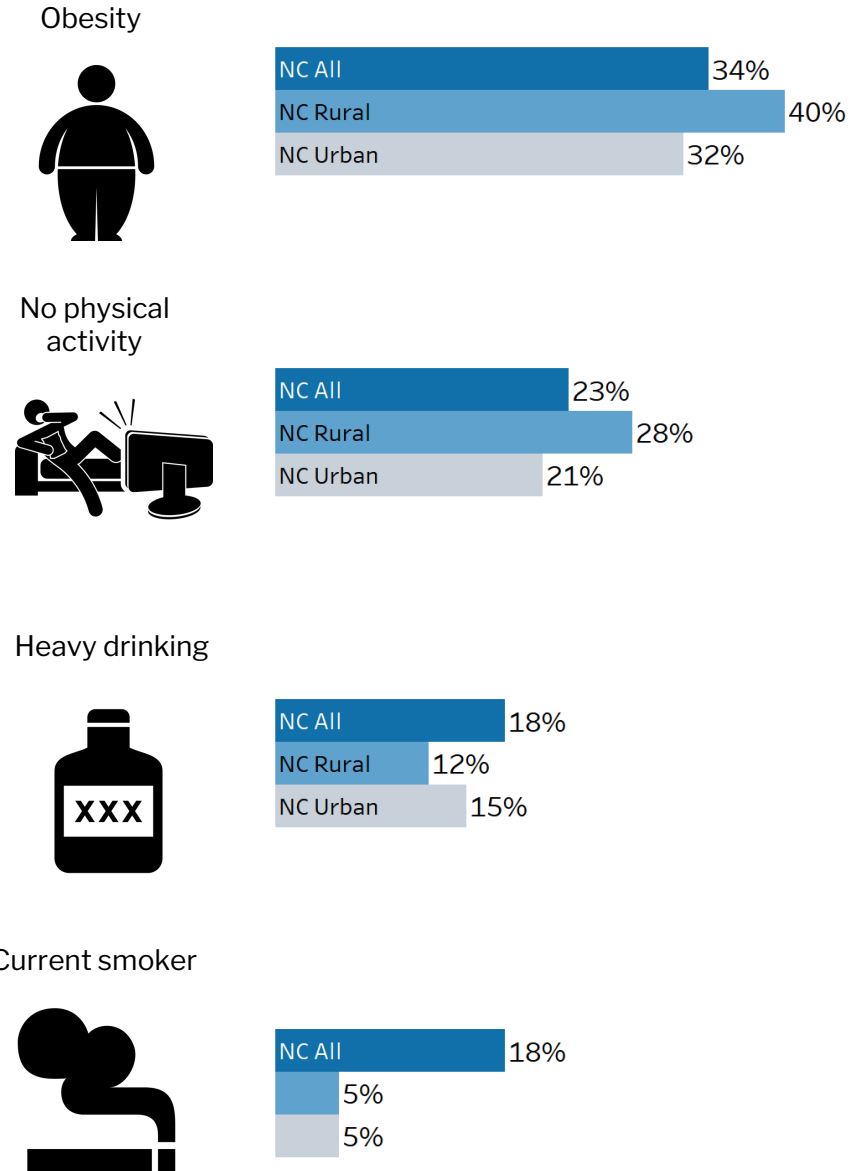
# BEHAVIORAL RISK FACTORS

## BEHAVIORAL RISK FACTORS IN NC

### BY RACE / ETHNICITY



### BY RURALITY

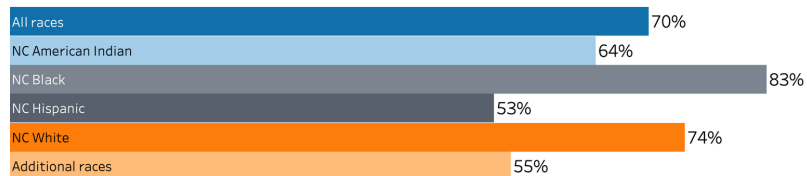


# CANCER SCREENINGS

## BREAST, CERVICAL AND COLORECTAL CANCER SCREENINGS IN NC

### BY RACE / ETHNICITY

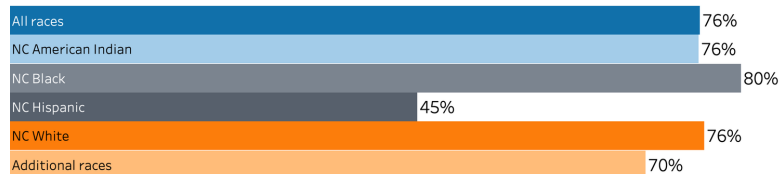
Mammogram in past 2 years (women >40)\*



Pap test in past 3 years (women 18-65)\*



Receipt of recommended colorectal cancer screening tests\*



Data Source: BRFSS 2020

The estimate for Asian race was suppressed because it did not meet State Center for Health Statistics (SCHS) statistical reliability standards. Prevalence estimates are suppressed when either of the following criteria are met: 1) there are fewer than 10 respondents in the numerator, 2) there are fewer than 50 respondents in the denominator

\*Calculated among respondents ages 50-75 who: 1) had a blood stool test in past year, or 2) had a sigmoidoscopy within the past 5 years AND a blood stool test within the past 3 years, or 3) had a colonoscopy within the past 10 years

### BY RURALITY

Mammogram in past 2 years (women >40)\*



Pap test in past 3 years (women 18-65)\*



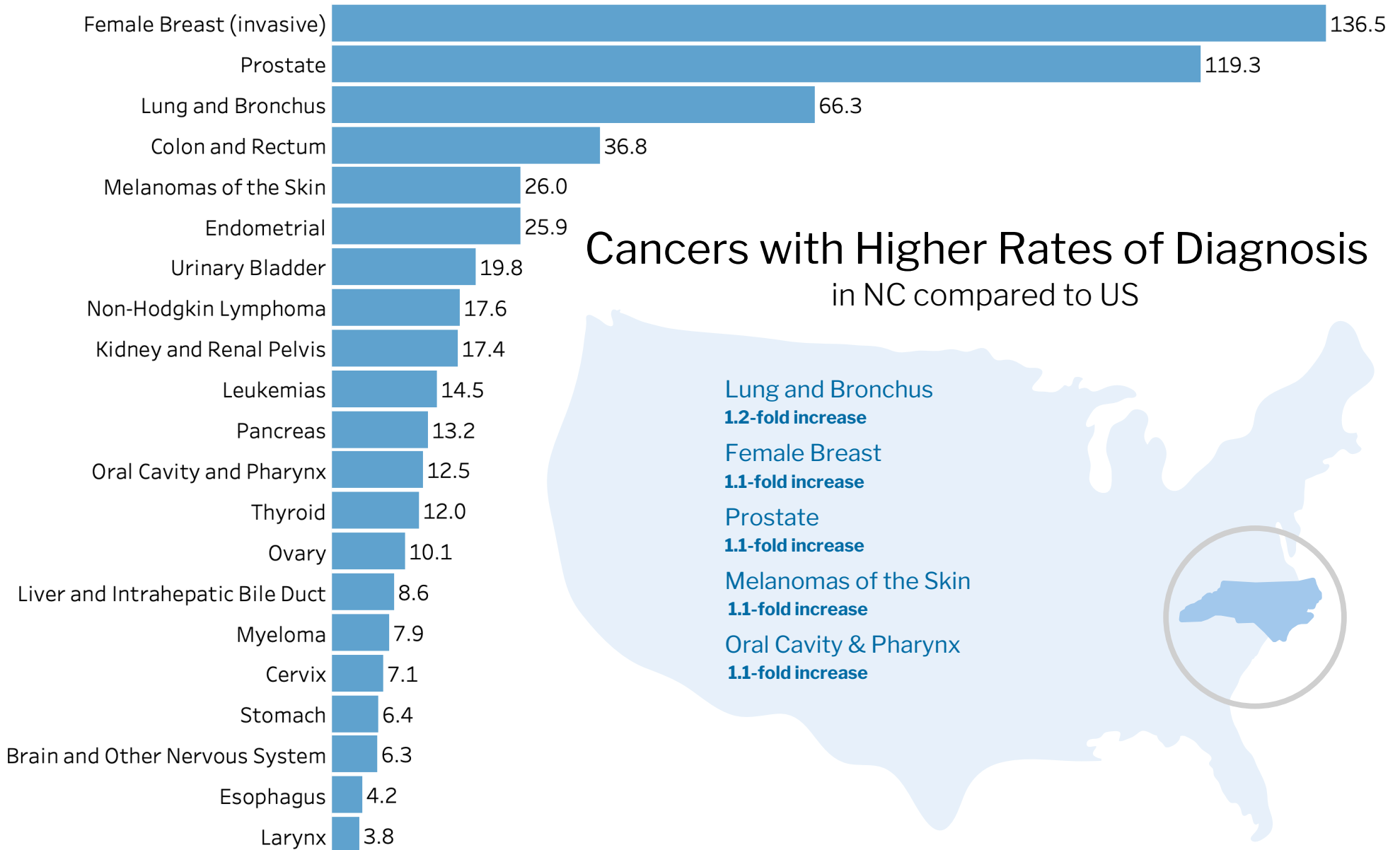
Receipt of recommended colorectal cancer screening tests\*



\*Data Source: BRFSS 2020

\*Calculated among respondents ages 50-75 who: 1) had a blood stool test in past year, or 2) had a sigmoidoscopy within the past 5 years AND a blood stool test within the past 3 years, or 3) had a colonoscopy within the past 10 years

## CANCER INCIDENCE RATE IN NC



Data Source: United States Cancer Statistics, Year 2014-2018  
 Note: Rates are age standardized using Census 2000 population.  
 \*The number of new cancers per 100,000 people

## DISPARITIES IN NEW CANCER CASES IN NORTH CAROLINA

### Black populations higher

THAN NON-HISPANIC WHITE POPULATIONS

Myeloma	2.5-fold
Stomach	1.9-fold
Prostate	1.8-fold
Pancreas	1.4-fold
Larynx	1.3-fold
Liver	1.2-fold
Cervix	1.1-fold
Colon and Rectum	1.1-fold
Kidney and Renal Pelvis	1.1-fold
Endometrium	1.1-fold

### Rural populations higher

THAN NON-RURAL POPULATIONS

Cervix	1.3-fold
Larynx	1.2-fold
Colon and Rectum	1.1-fold
Kidney and Renal Pelvis	1.1-fold
Oral Cavity and Pharynx	1.1-fold
Esophagus	1.1-fold
Lung and Bronchus	1.1-fold

### Hispanic populations higher

THAN NON-HISPANIC WHITE POPULATIONS

Stomach	1.7-fold
Liver	1.5-fold
Cervix	1.5-fold
Myeloma	1.2-fold

### Asian populations higher

THAN NON-HISPANIC WHITE POPULATIONS

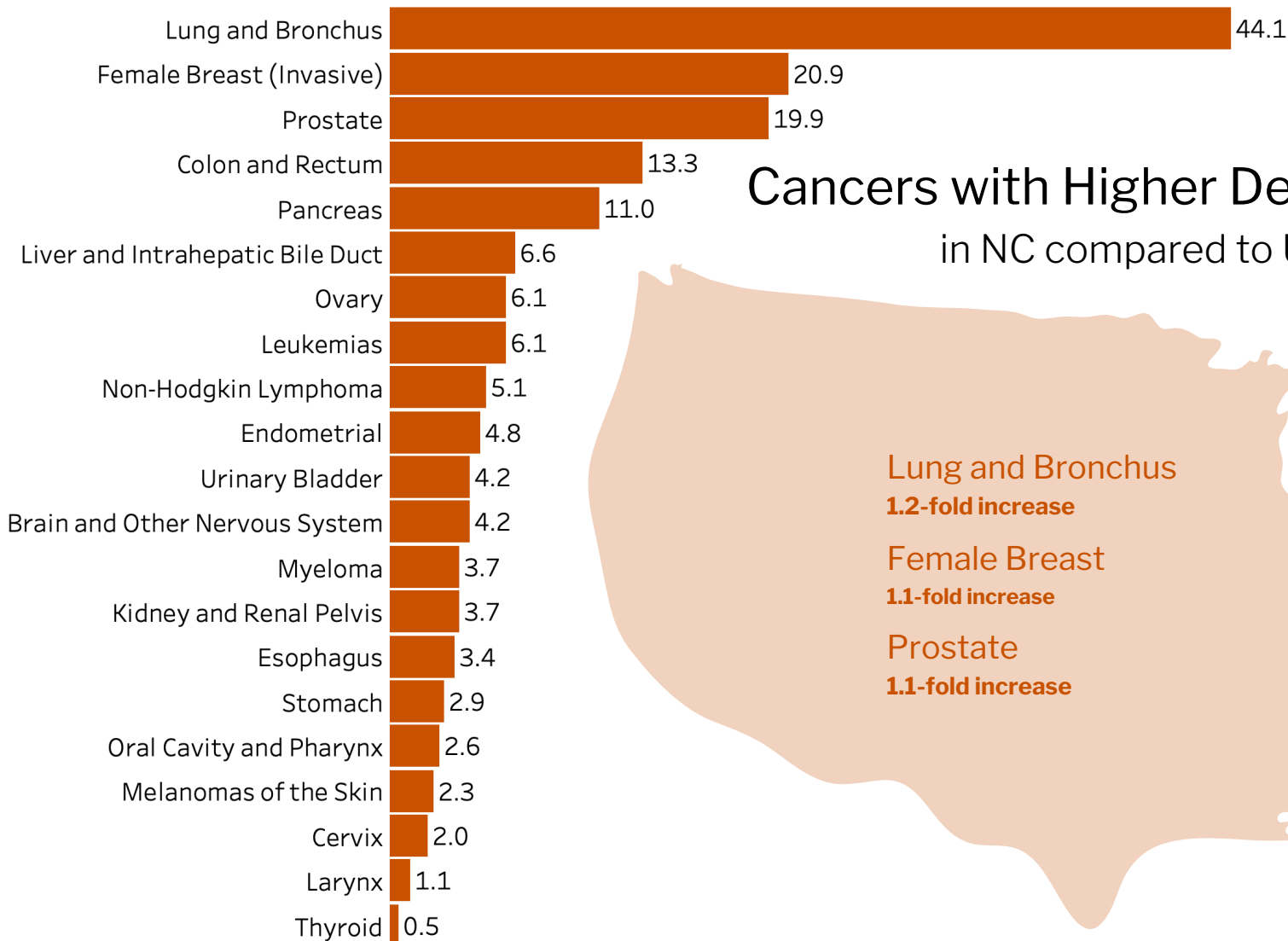
Stomach	1.8-fold
Liver	1.4-fold

### American Indian populations higher

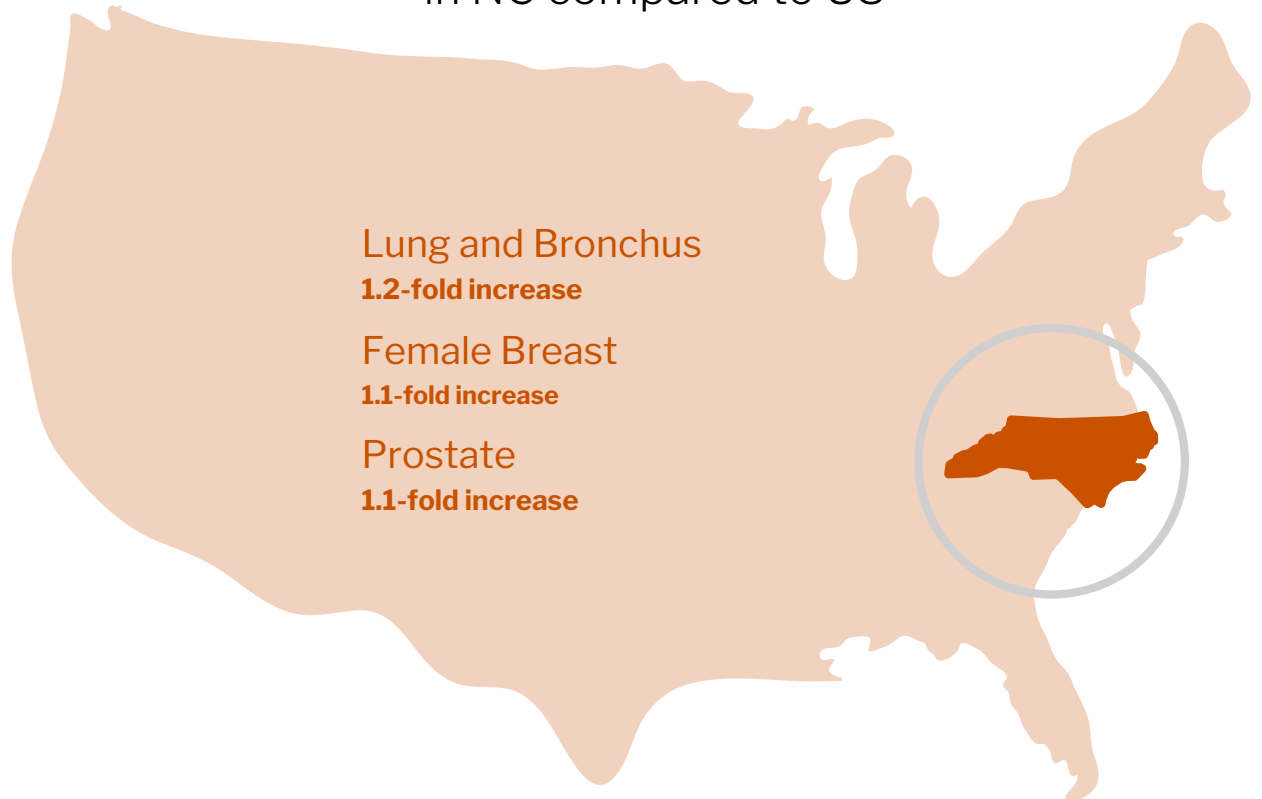
THAN NON-HISPANIC WHITE POPULATIONS

Liver	1.4-fold
Stomach	1.2-fold
Larynx	1.2-fold
Myeloma	1.1-fold

## CANCER DEATH RATES IN NC



### Cancers with Higher Death Rates in NC compared to US



Data Source: United States Cancer Statistics, Year 2014-2018  
 Note: Rates are age standardized using Census 2000 population.  
 \*The number of new cancers per 100,000 people

## DISPARITIES IN CANCER DEATHS IN NORTH CAROLINA

### Black population higher

THAN NON-HISPANIC WHITES

Lung and Bronchus	2.4-fold
Stomach	2.3-fold
Liver	2.2-fold
Larynx	2.0-fold
Thyroid	2.0-fold
Cervix	1.6-fold
Prostate	1.4-fold
Colon and Rectum	1.4-fold
Endometrial	1.3-fold
Non-Hodgkin Lymphoma	1.3-fold
Esophagus	1.2-fold

### Rural populations higher

THAN NON-RURAL POPULATIONS

Melanoma	2.6-fold
Endometrial	2.4-fold
Breast	2.3-fold
Urinary Bladder	1.5-fold
Oral Cavity and Pharynx	1.5-fold
Kidney and Renal Pelvis	1.4-fold
Non-Hodgkin Lymphoma	1.4-fold
Cervix	1.2-fold
Colon and Rectum	1.2-fold

### Hispanics population higher

THAN NON-HISPANIC WHITES

Stomach	1.7-fold
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### Asian population higher

THAN NON-HISPANIC WHITES

Stomach	2.3-fold
Non-Hodgkin Lymphoma	1.2-fold

### American Indian population higher

THAN NON-HISPANIC WHITES

Larynx	2.1-fold
Stomach	1.7-fold
Brain and Nervous System	1.6-fold
Lung and Bronchus	1.3-fold
Non-Hodgkin Lymphoma	1.5-fold

## STATEMENT ON DATA

We recognize that data labels and terms may not capture everyone's identities or preferences. In this report, we present the categories and labels as they were reported in their original data sources.

We also recognize that racism is a public health issue. The way data is collected and presented can reinforce existing health disparities. As a small first step and to show our commitment to equity, we purposefully report all labels in alphabetical order.



## CONTACT US FOR MORE INFORMATION

Contact the Community Outreach and Engagement Team which can help you by:



Providing data on current cancer burden in North Carolina and beyond



Matching researchers with patient advocates and community partners



Giving guidance in the formation of a community advisory board (CAB)



Connecting researchers with each other



Coordinating assistance from UNC Lineberger's CAB



Providing technical assistance on how to create a community-engaged research proposal

Email: [askCOE@unc.edu](mailto:askCOE@unc.edu)

Visit: <https://unclineberger.org/community-outreach/>

