UNC | LINEBERGER COMPREHENSIVE CANCER CENTER

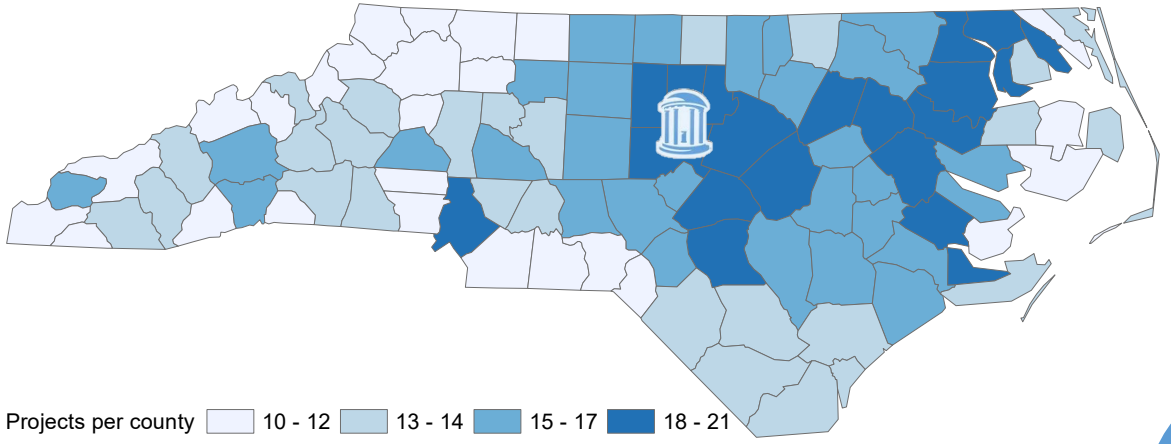
UNC CANCER CARE

Cancer Disparities in North Carolina

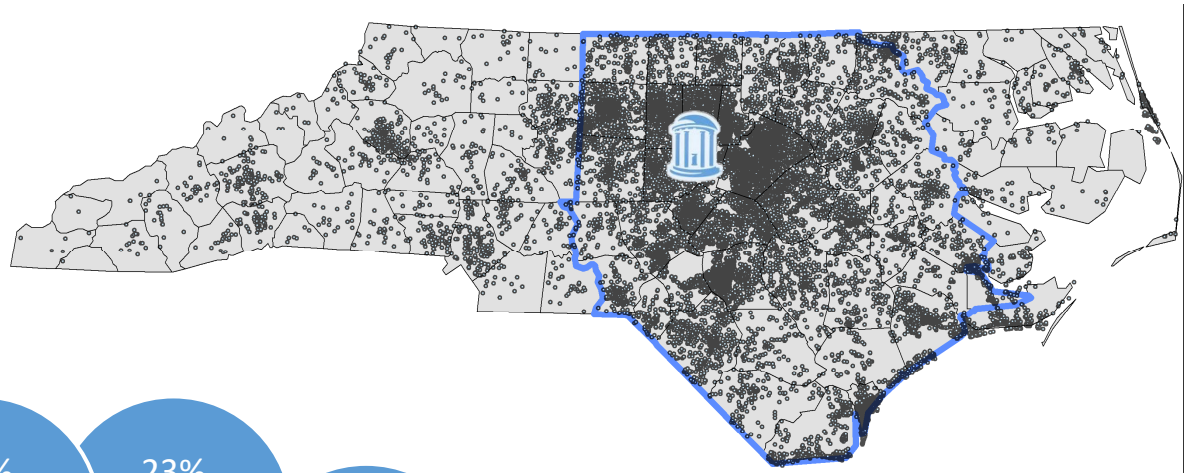
December 1, 2020

Our Catchment Area: All 100 Counties in North Carolina

Our **cancer research and outreach** efforts span all 100 NC counties.



We provide **cancer care** to patients from all 100 NC counties; 91% of our cancer patients are seen within central **40** counties.



29% minority race

- **22%** Black / AA
- **3%** Asian
- **2%** Native American
- 2% Multi-race

10% Hispanic / Latinx

23% rural residing

16% below poverty line

Sources: UNC Lineberger Data. UNC Hospital Cancer Registry.

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Monitor Cancer Burden in Catchment Area: NC compared to US

Cancer Incidence & Mortality by Gender in North Carolina

Cancers in blue statistically significantly higher than the US average.

Female Incidence	Female Mortality	Female	Male	Male Incidence	Male Mortality
161.7	20.9	**Breast**	**Prostate**	**111.8**	**20.1**
56.6	**36.5**	**Lung & bronchus**	**Lung & bronchus**	**82.8**	**62.2**
32.5	11.8	Colorectal	Colorectal	41.8	16.8
20.7	1.6	**Melanoma**	**Melanoma**	**35.5**	3.9
24.9	4.6	Endometrial	Urinary bladder	34.1	7.3
8.6	2.2	Urinary bladder	Non-Hodgkin lymphoma	20.5	7.0
14.3	4.2	Non-Hodgkin lymphoma	Kidney & renal pelvis	22.6	5.5
12.0	2.2	Kidney & renal pelvis	Pancreas	14.6	12.9
11.2	9.5	Pancreas	**Oral & pharynx**	**19.0**	4.1
6.8	1.4	Oral & pharynx	Thyroid	6.6	1.0
18.0	1.0	Thyroid	Liver	12.6	9.9
10.8	6.6	Ovary			
4.3	3.8	Liver			

Source: 2012-2016 NPCR-CSS data; rates per 100,000 population are age adjusted to the 2000 US standard population.

Monitor Cancer Burden in Catchment Area

Black-White Mortality Disparities

Prostate	**(2.3-fold)***
Stomach	(2.3-fold)
Myeloma	**(2.2-fold)***
Endometrial	**(2.2-fold)***
Larynx	**(1.8-fold)***
Cervix	**(1.7-fold)***
Breast	**(1.5-fold)***
Colorectal	**(1.4-fold)***
Pancreas	**(1.4-fold)***
Liver	(1.3-fold)
Oral/Pharynx	**(1.2-fold)***
Thyroid	(1.2-fold)
Kidney	(1.1-fold)

Native American-White Mortality Disparities

Stomach	(2.3-fold)
Prostate	**(1.5-fold)***
Liver	(1.2-fold)
Endometrial	**(1.1-fold)***

Hispanic/Latinx-NH White Mortality Disparity

Stomach	(1.8-fold)
Thyroid	(1.2-fold)

Rural-Urban Mortality Disparities

Larynx	**(1.3-fold)***
Colorectal	**(1.2-fold)***
Cervix	**(1.2-fold)***
Oral/Pharynx	**(1.2-fold)***
Esophagus	(1.1-fold)
Lung	**(1.1-fold)***
Prostate	(1.1-fold)
Pancreas	**(1.1-fold)***

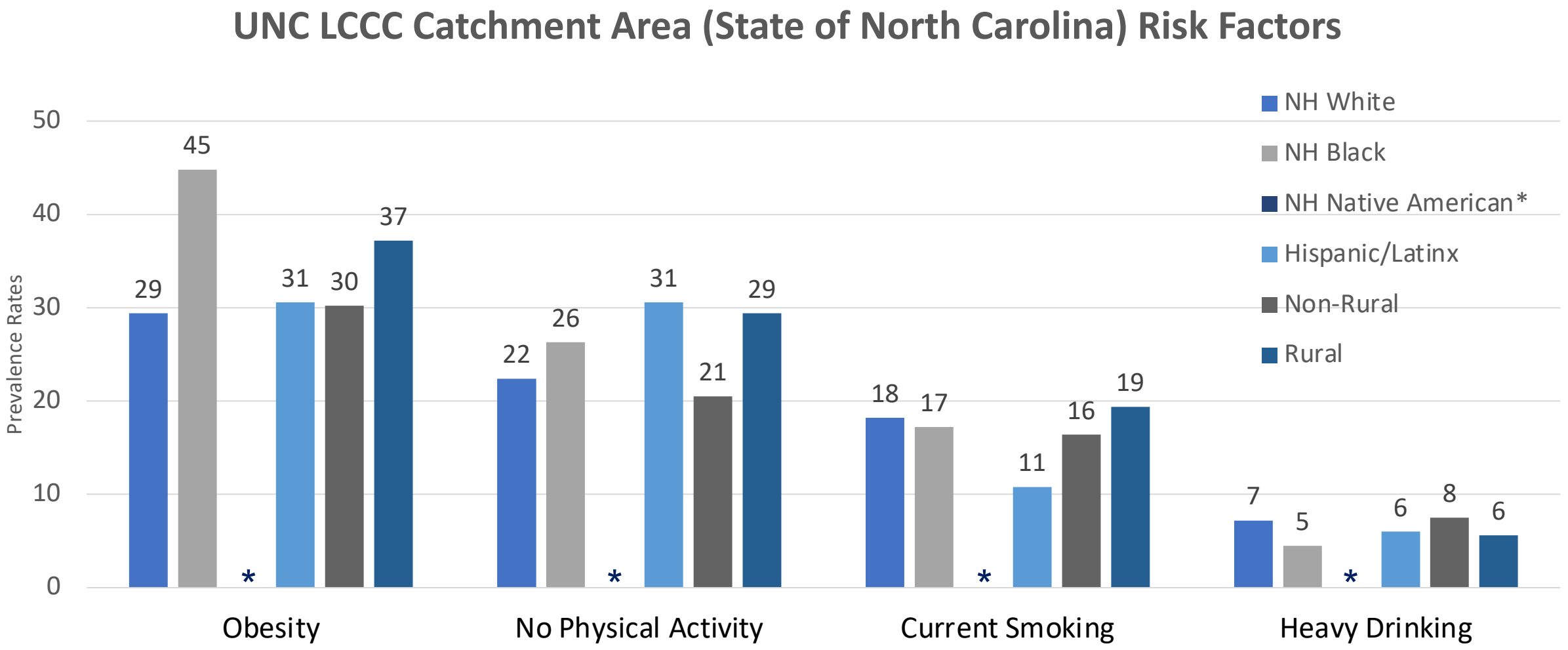
Cancer Deaths per 100K

Lung	**(45.5)***
Breast	**(21.6)***
Prostate	**(19.9)***
Colon	**(14.5)***
Pancreas	**(11.2)***

2012-2016 NAACR CDC Compressed Mortality Data

*Asterisks and bold type indicate cancers & populations Lineberger has prioritized in research.

Monitor Behavioral Risks



Source: Behavioral Risk Factor Surveillance System (BRFSS, CDC). 2018 State Cancer Profiles.
*NH- Native American data suppressed because did not meet statistical reliability standards.

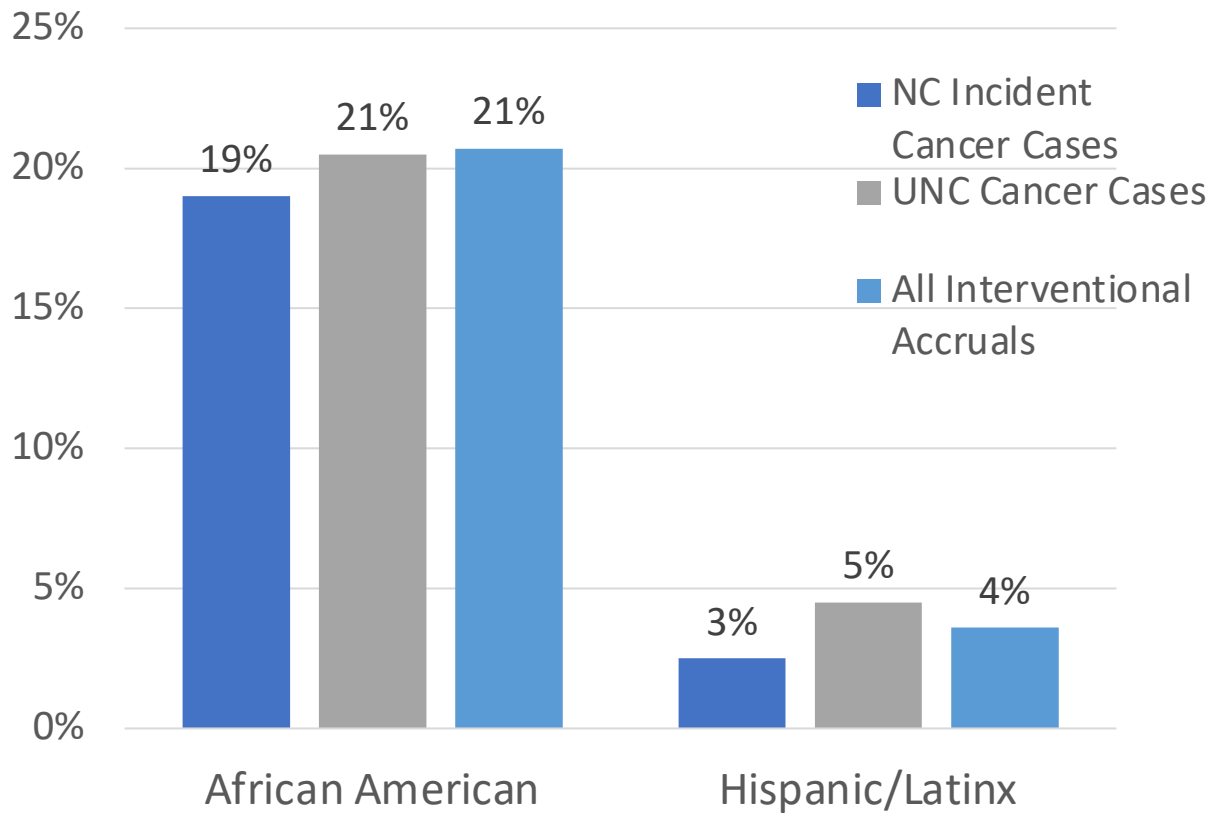
Facilitate Minority Recruitment to Clinical Trials

Intervention trial accruals for African Americans and Hispanics/Latinx populations are well-matched to the racial/ethnic composition of incident cancer cases in NC

10.4 million — North Carolina population

2,799 — All Interventional accruals 2018-19

22% — Rural Interventional accruals 2018-19



COE Office: embedded trial navigator and Spanish interpreter in clinics; conducting outreach & education about trials in communities

Accrual year: 12/1/2018 – 11/30/2019

2018 Tumor Registry (cancer cases); 2018-2019 All Interventional Accrual in Adults