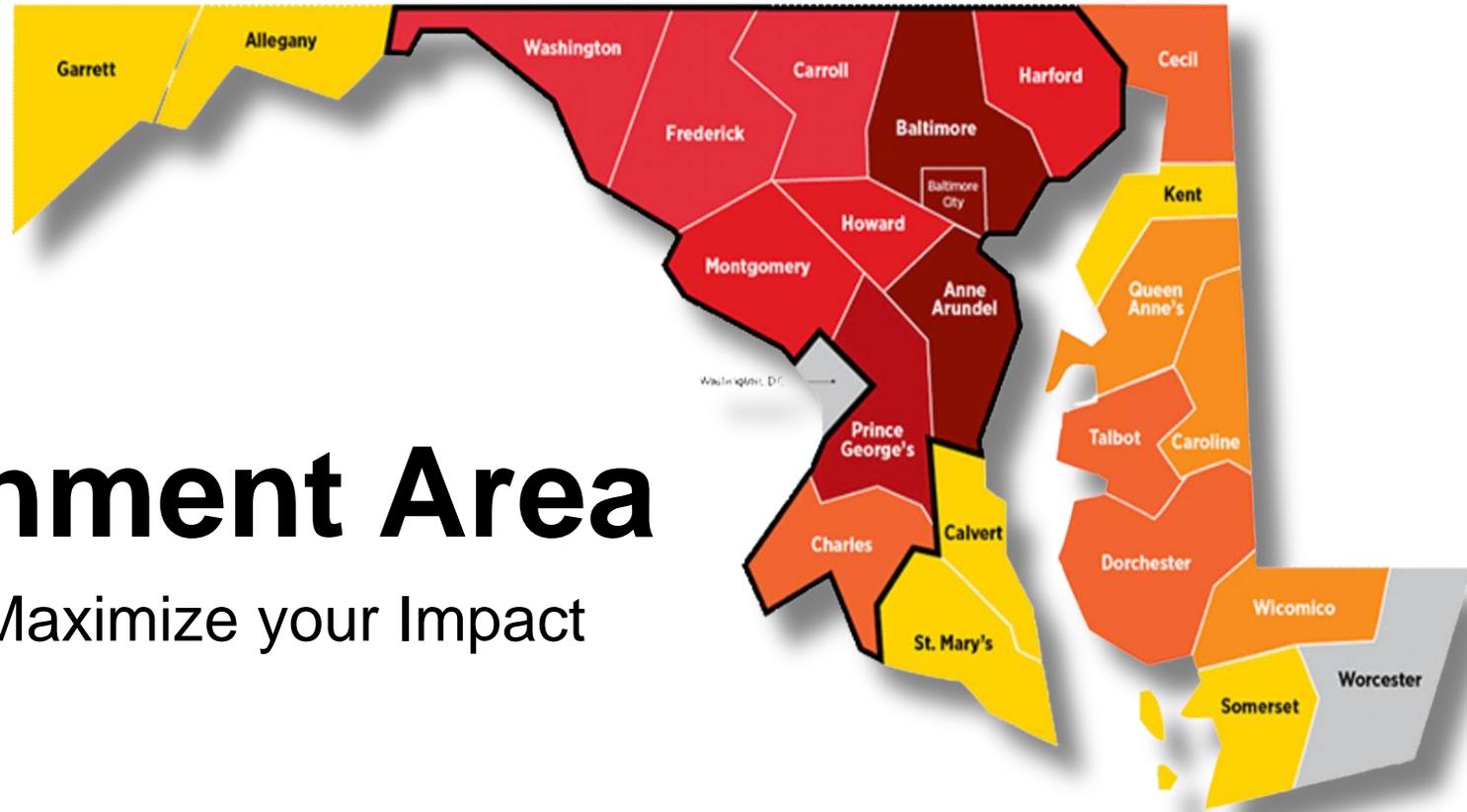


# UMGCCC Catchment Area

Contextualize your Research – Maximize your Impact



UNIVERSITY of MARYLAND  
MARLENE AND STEWART GREENEBAUM  
COMPREHENSIVE CANCER CENTER

# UMGCCC Catchment Area – at a Glance

## Key characteristics

- 5.4m people
- 32% African American/ Black
- 11% Hispanic/Latino
- Overall affluence, with areas heavily impacted by cancer

## Top cancer risk factors

- Smoking/tobacco use
- Obesity

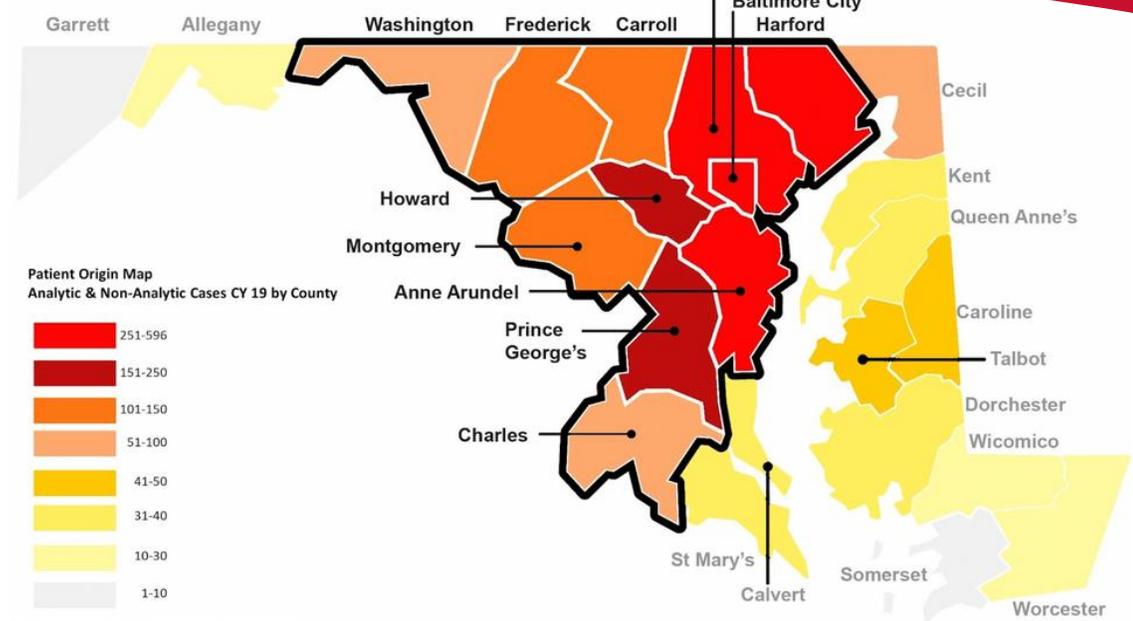
## Select cancer priorities

- Equity-based approaches to eliminate cancer disparities
- Prostate, breast, lung, colorectal

Catchment area and Baltimore City demographics	Baltimore City	Catchment Area*	Maryland	US
Age 65 or older (%)	14.0	15.0	15.4	16.0
Female (%)	53.1	51.7	51.5	50.8
Education-some college (%)	45.8	55.5	53.9	48.0
African American (%)	62.3	32.1	29.9	12.6
Hispanic (%)	5.4	11.1	10.3	18.2
Asian (%)	2.5	7.0	6.4	5.6
Median household income (\$)	52,164	92,093	87,063	64,994
Rural (%)	0.0	8.9	14.3	21.2

\*Calculation is weighted based on County Weight=County Population/Total Population

## Catchment Area



	Incidence				Mortality			
	BC	CA*	MD	US	BC	CA	MD	US
All	476.6	434.5	449.7	442.3	186.6	142.2	148.9	149.4
Lung	73.7	47.0	51.8	54.0	45.2	29.8	33.5	35.0
Prostate	141.9	131.2	135.7	110.5	27.5	18.2	20.1	18.8
Breast	119.8	128.0	133.2	127.0	22	19.1	21.0	19.6
Colorectal	37.1	32.6	35.2	36.5	15.8	11.9	13.2	13.1
Cervix	8.1	5.3	6.6	7.5	3.4	1.2	2.0	2.2
Oral + Pharynx	10	9.4	11.1	11.9	3.3	2.0	2.5	2.5
Melanoma	10	20.8	24.5	22.5	0.5	1.3	1.8	2.1

BC=Baltimore City; CA= Catchment area; MD=Maryland; US=United States  
 Note: rates are per 100,00 people and are age-adjusted to 2000 US standard population.  
 \*Calculation is weighted based on County Weight=County Population/Total Population

## Baltimore City heavily impacted by smoking, obesity, and HIV

Catchment area and Baltimore City health and cancer risk factors	Baltimore City	Catchment Area*	Maryland	US
Smoking/tobacco use (%)	20.0	11.0	11.1	15.5
Obesity (%)	40.9	31.5	31.1	31.9
HIV infected rate (rate/100,000)	2,089.7	615.0	655.4	379.7
Mammography within 2 years (%) <sup>a</sup>	77.7	76.3	81.3	78.3
Life expectancy (years)	71.8	79.1	77.3	77.0

<sup>a</sup> among Maryland women ages 50 to 74 years  
 \*Calculation is weighted based on County Weight=County Population/Total Population



Read our  
Community  
Cancer Needs  
Assessment

- ❑ **Cancer InFocus** is a site-specific interactive data mapping tool developed by the University of Kentucky for use by NCI-designated Cancer Centers
  - Currently licensed for used by 28 cancer centers plus one state cancer registry
- ❑ Data for the tool is pulled from publicly available sites (e.g. ACS, EPA, HRSA, CDC)
- ❑ UMGCCC can add site-specific data



<https://research.umgccc.org/cancerinfocus>

- ❑ Data highlights
  - Sociodemographics
  - Economic/insurance
  - Housing & Transportation
  - Disparities
  - Risk factors and Screening
  - Food desert
  - Environmental
  - Cancer Incidence & Mortality
  - Facilities & Providers

Scan to visit  
Cancer InFocus



# Catchment Area Demographics

2020

Table 1. Catchment area and Baltimore City demographics	Baltimore City	Catchment Area*	Maryland	US
Age 65 or older (%)	14.0	15.0	15.4	16.0
Female (%)	53.1	51.7	51.5	50.8
Education- some college (%)	45.8	55.5	53.9	48.0
African American (%)	62.3	32.1	29.9	12.6
Hispanic (%)	5.4	11.1	10.3	18.2
Asian (%)	2.5	7.0	6.4	5.6
White (%)	29.7	50.6	54.2	70.4
Median household income (\$)	52,164	92,093	87,063	64,994
Rural (%)	0.0	8.9	14.3	21.2

\*Calculation is weighted based on County Weight=County Population/Total Population

2016

Table 1. Catchment area and Baltimore City demographics	Baltimore City	Catchment Area*	Maryland	US
Age 65 or older (%)	12.9	14.2	13.8	14.5
Female (%)	53.0	51.7	51.6	50.8
Education- some college (%)	42.8	53.4	51.8	45.7
African American (%)	62.5	32.2	29.6	12.7
Hispanic (%)	5.1	10.5	9.2	17.8
Asian (%)	2.5	6.9	6.1	5.4
White (%)	30.8	53.0	57.2	73.3
Median household income (\$)	44,262	80,786	76,067	55,322
Rural (%)	0.0	8.0	10.8	19.3

\*Calculation is weighted based on County Weight=County Population/Total Population

Catchment area is greater in education and income than the US average

Baltimore City has more residents who are of lower income and who are African American

Small increases in education; Hispanic/Latino population; rurality

# Cancer Incidence & Mortality

2016-2020

Table 2. Cancer incidence/mortality	Incidence				Mortality			
	BC	CA*	MD	US	BC	CA	MD	US
All	476.6	434.5	449.7	442.3	186.6	142.2	148.9	149.4
Lung	73.7	47.0	51.8	54.0	45.2	29.8	33.5	35.0
Prostate	141.9	131.2	135.7	110.5	27.5	18.2	20.1	18.8
Breast	119.8	128.0	133.2	127.0	22	19.1	21.0	19.6
Colorectal	37.1	32.6	35.2	36.5	15.8	11.9	13.2	13.1
Cervix	8.1	5.3	6.6	7.5	3.4	1.2	2.0	2.2
Oral + Pharynx	10	9.4	11.1	11.9	3.3	2.0	2.5	2.5
Melanoma	10	20.8	24.5	22.5	0.5	1.3	1.8	2.1

BC=Baltimore City; CA= Catchment area; MD=Maryland; US=United States  
 Note: rates are per 100,00 people and are age-adjusted to 2000 US standard population.  
 \*Calculation is weighted based on County Weight=County Population/Total Population

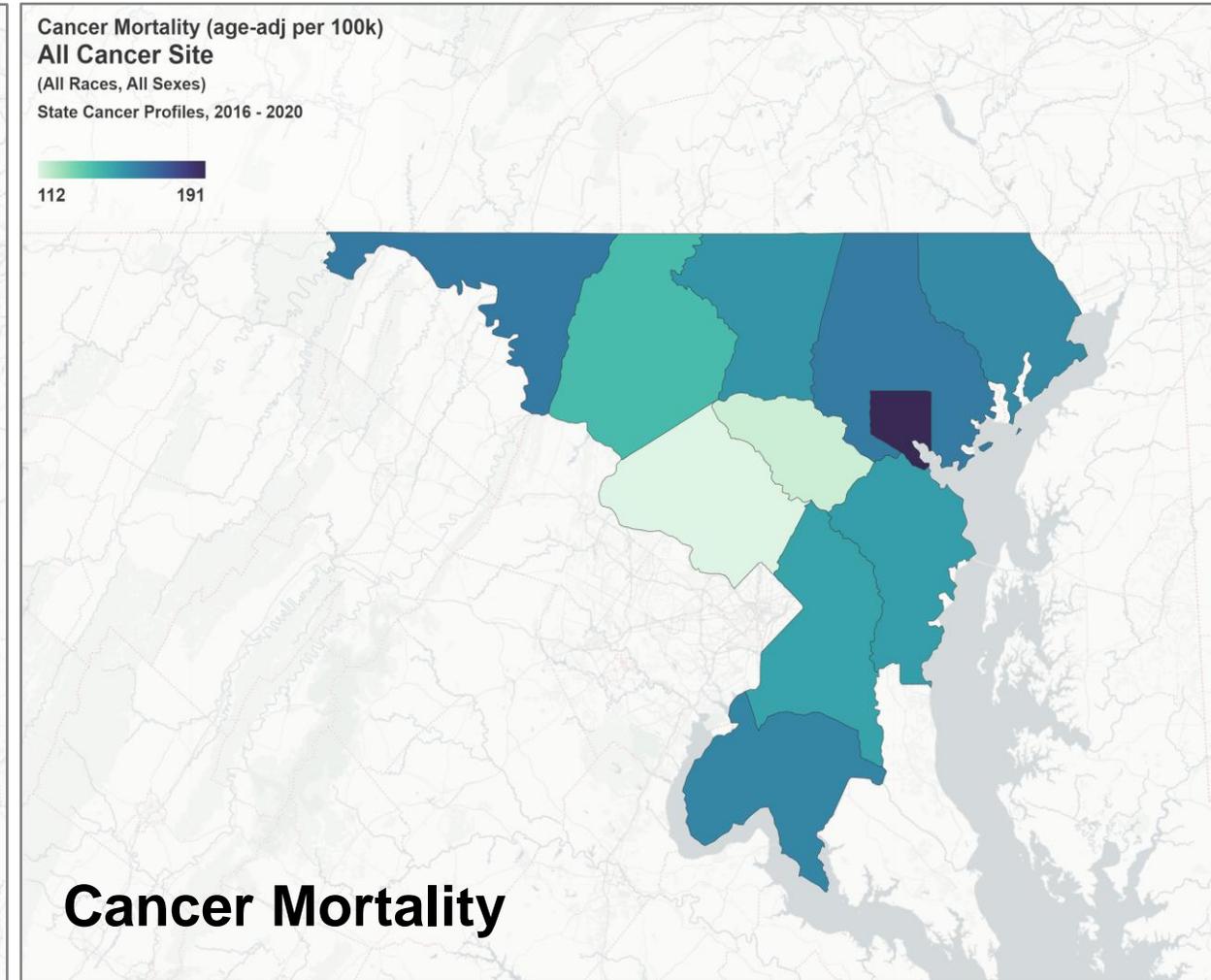
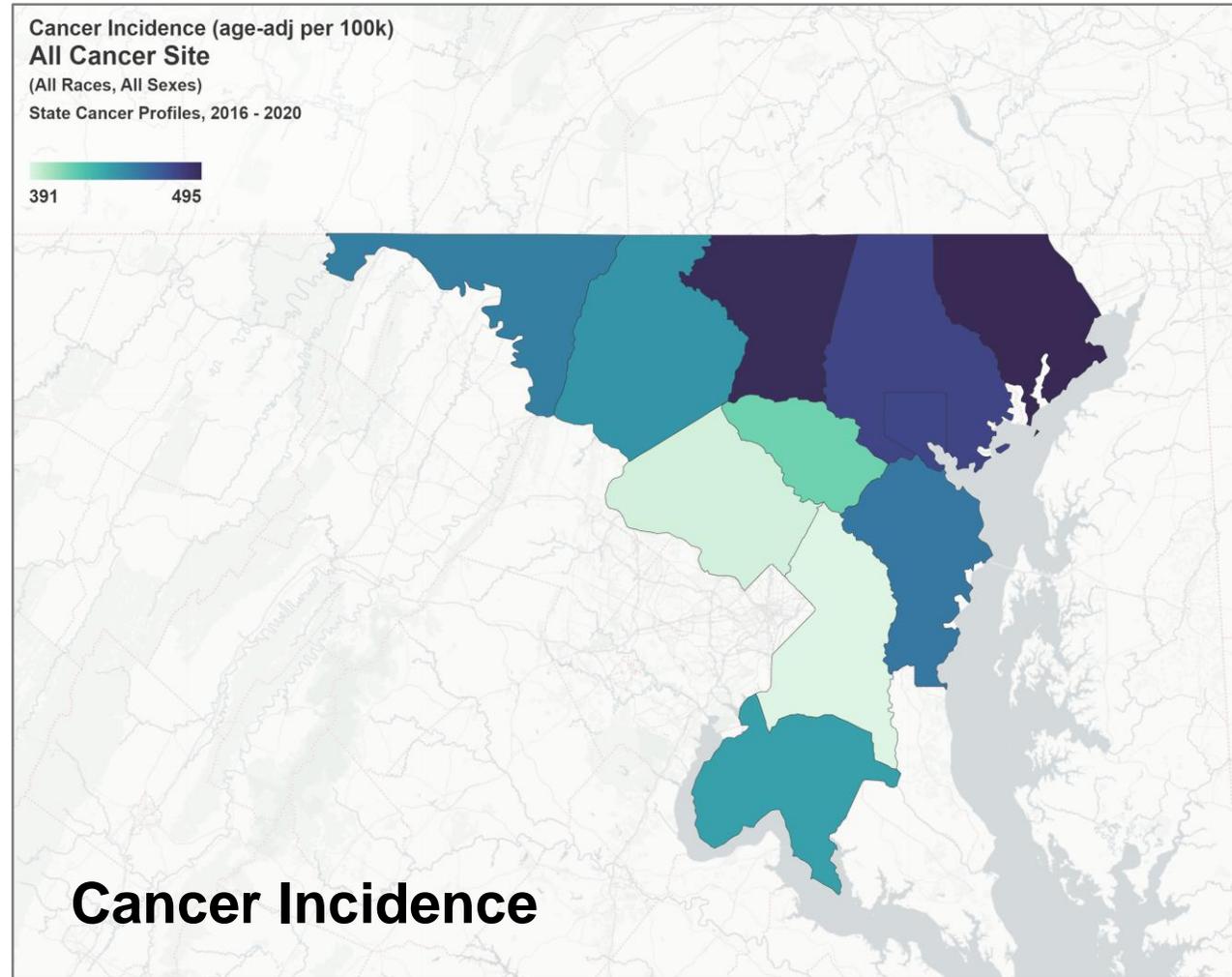
Catchment area cancer incidence and mortality have decreased slightly

2011-2015

Table 2. Cancer incidence/mortality	Incidence				Mortality			
	BC	CA*	MD	US	BC	CA	MD	US
All	492.4	444.4	452.9	449.2	223	160.6	162.3	163.5
Lung	80.2	55.1	57.4	60.2	61.1	40.0	41.5	43.4
Prostate	144.5	126.2	125.7	109.0	31.4	20.7	20.1	19.5
Breast	124.2	131.3	131.7	124.7	27.2	22.6	22.4	20.9
Colorectal	43.8	36.5	37.0	39.2	20.8	14.3	14.2	14.5
Cervix	10.4	6.3	6.4	7.5	4.4	1.7	2.0	2.3
Oral + Pharynx	12.6	10.2	10.8	11.6	3.8	2.2	2.3	2.5
Melanoma	9.7	20.7	22.4	21.3	1.7	2.2	2.3	2.6

BC=Baltimore City; CA= Catchment area; MD=Maryland; US=United States  
 Note: rates are per 100,00 people and are age-adjusted to 2000 US standard population.  
 \*Calculation is weighted based on County Weight=County Population/Total Population

Decreases appear to be driven in part by lung and colorectal



# Health Indicators & Cancer Risk Factors

2020

<b>Table 3. Catchment area and Baltimore City health and cancer risk factors</b>	<b>Baltimore City</b>	<b>Catchment Area*</b>	<b>Maryland</b>	<b>US</b>
Smoking/tobacco use (%)	20.0	11.0	11.1	15.5
Obesity (%)	40.9	31.5	31.1	31.9
HIV infected rate (rate/100,000)	2,089.7	615.0	655.4	379.7
Mammography within 2 years (%) <sup>a</sup>	77.7	76.3	81.3	78.3
Life expectancy (years)	71.8	79.1	77.3	77.0

<sup>a</sup> among Maryland women ages 50 to 74 years

\*Calculation is weighted based on County Weight=County Population/Total Population

2016

<b>Table 3. Catchment area and Baltimore City health and cancer risk factors</b>	<b>Baltimore City</b>	<b>Catchment Area*</b>	<b>Maryland</b>	<b>US</b>
Smoking/tobacco use (%)	20.5	13.9	13.8	17.1
Obesity (%)	32.5	30.7	29.9	29.9
HIV infected rate (rate/100,000)	2,395.2	636.3	642.8	365.5
Mammography within 2 years (%) <sup>a</sup>	83.8	78.4	81.1	77.6
Life expectancy (years)	73.4	78.0	79.1	78.7

<sup>a</sup> among Maryland women ages 50 to 74 years

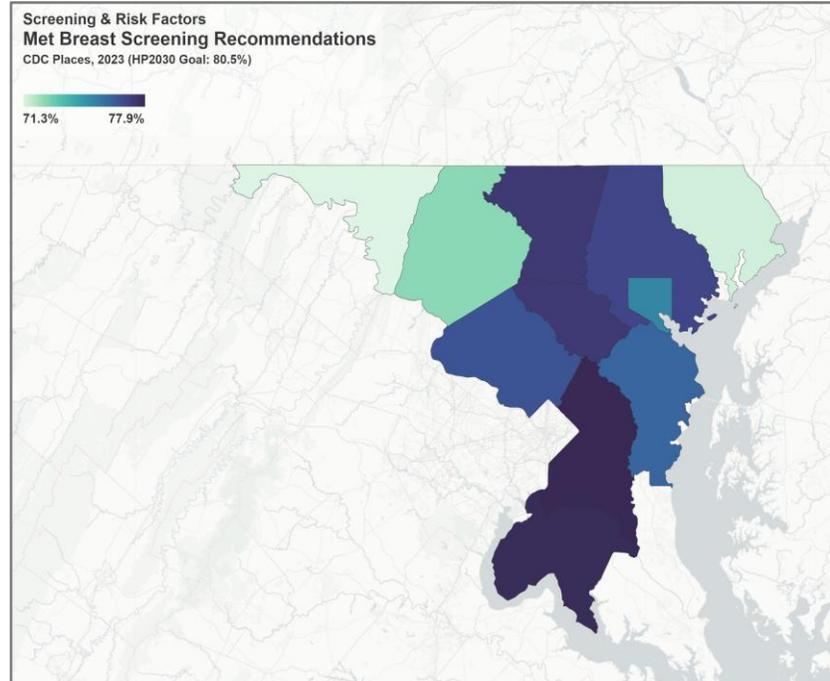
\*Calculation is weighted based on County Weight=County Population/Total Population

Key cancer risk factors: smoking (Baltimore City), obesity, HIV infection

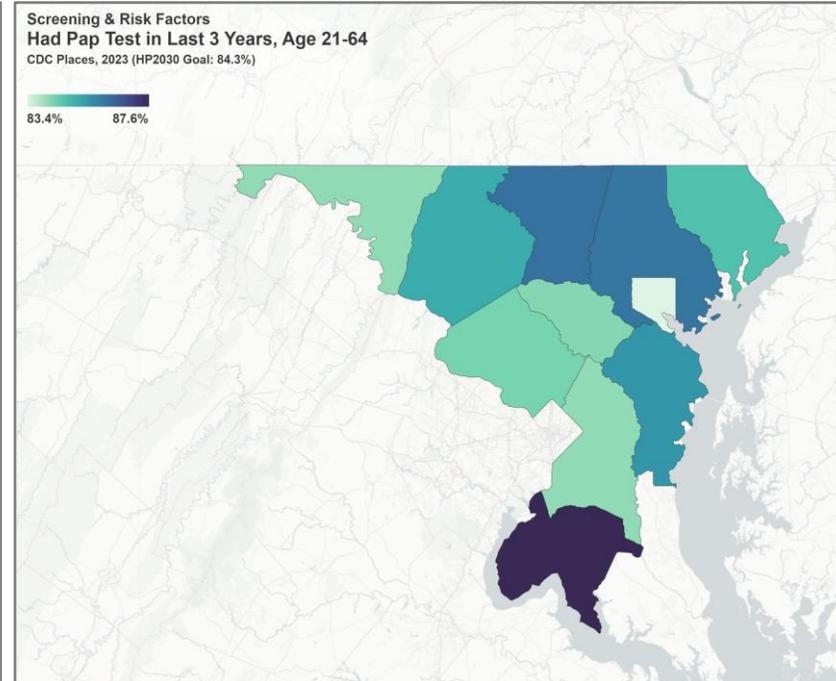
Catchment area smoking has decreased yet rates in Baltimore are relatively stable

Obesity and HIV rates in Baltimore have decreased

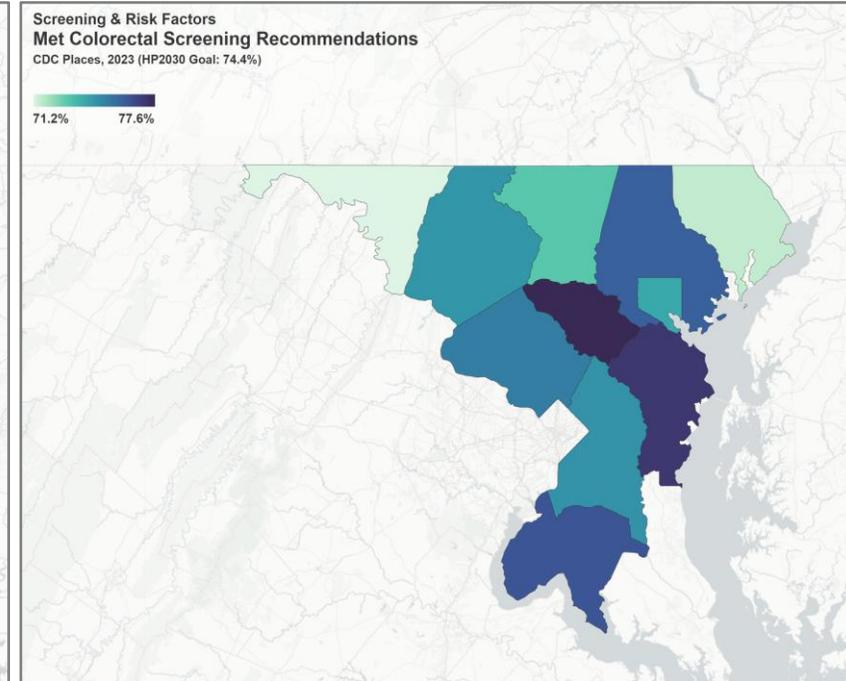




**Breast Cancer Screening**



**Cervical Cancer Screening**



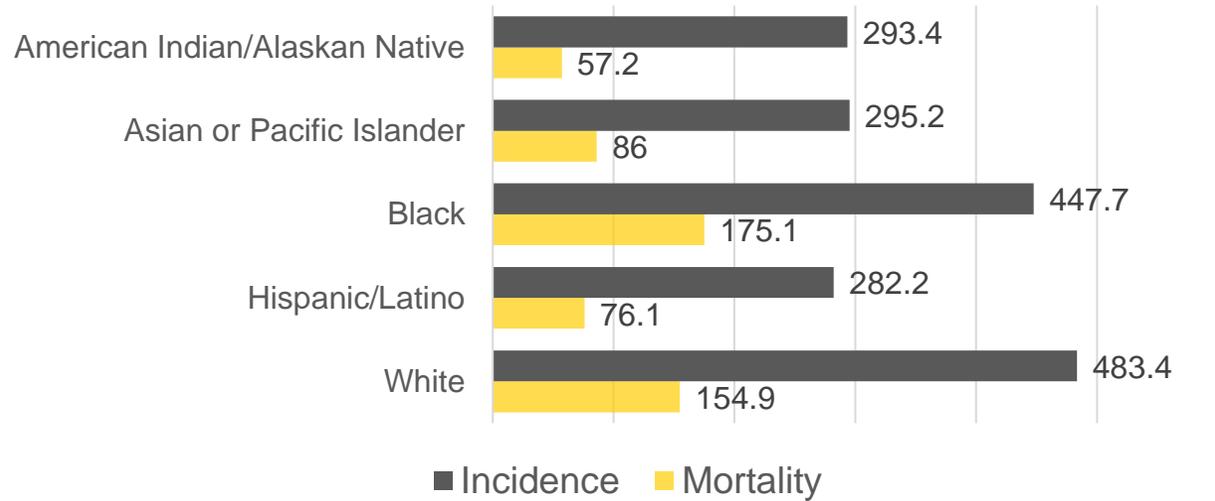
**Colorectal Cancer Screening**

# Cancer Health Inequities– Race/Ethnicity

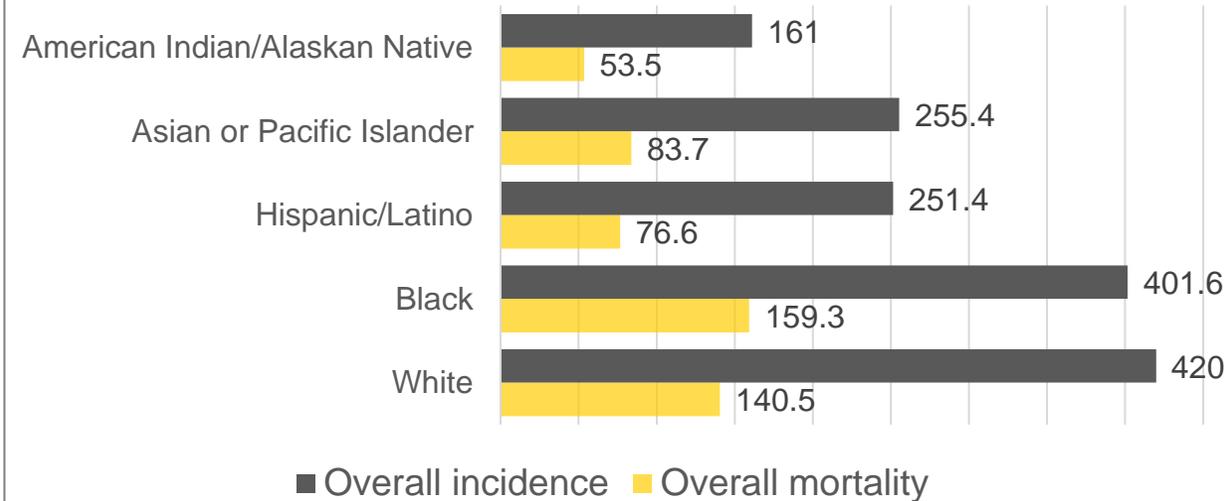
Incidence is greatest in Whites;  
Mortality is greatest in Blacks.

Black-White gap in incidence has decreased.  
Mortality gap is slightly decreased.

Maryland Cancer Incidence and Mortality by Race (2016)



Maryland Cancer Incidence and Mortality by Race (2020)



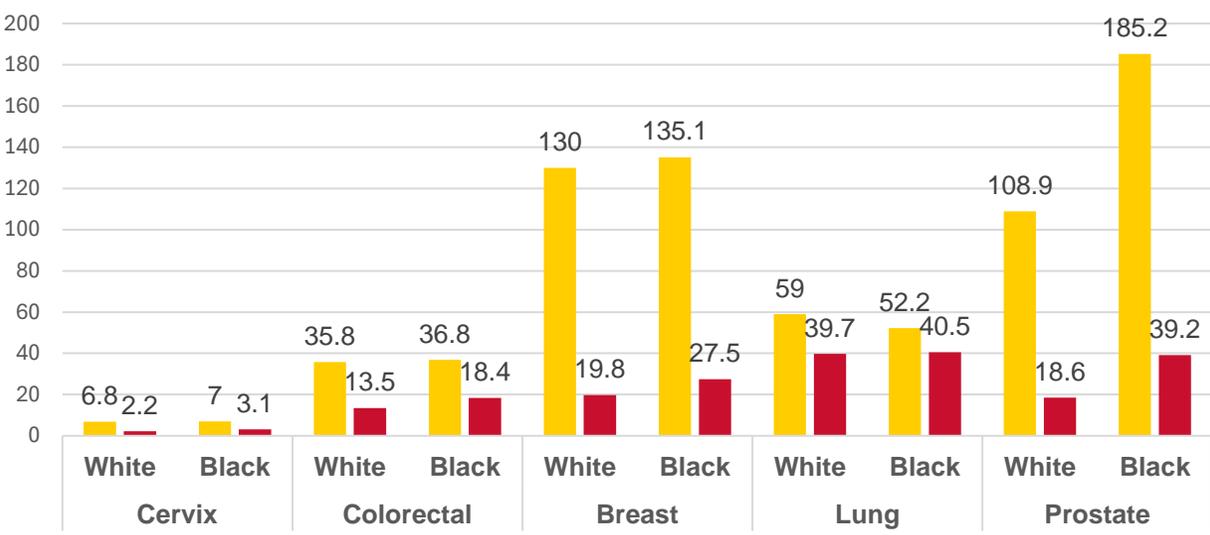
# Cancer Health Inequities by Race

Greatest inequities in mortality for breast and prostate, followed by colorectal

Mortality inequities slightly decreasing in prostate, breast, and colorectal

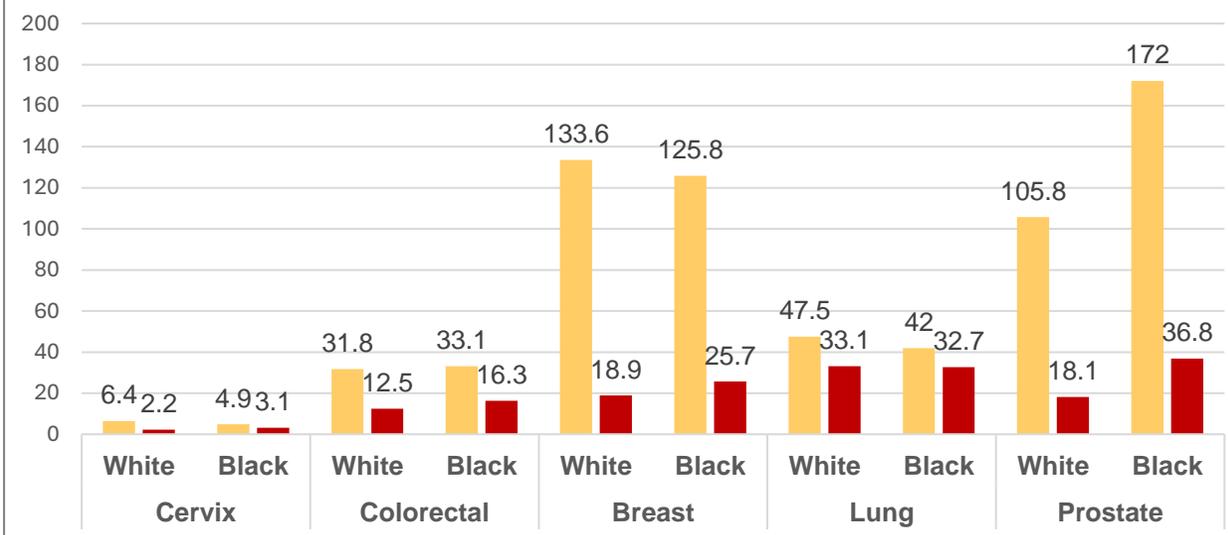
Maryland cancer disparities by site (2016)

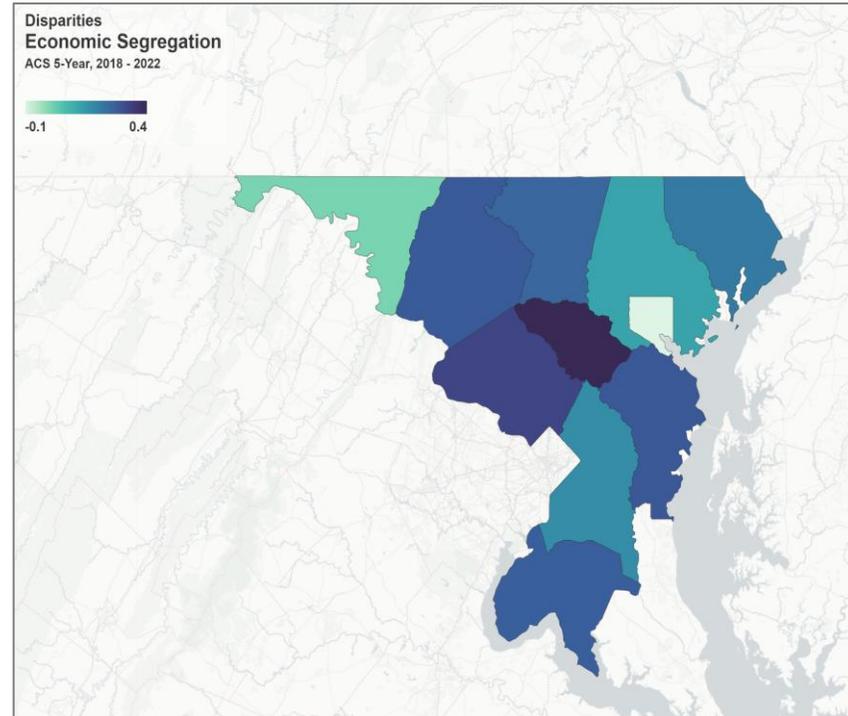
■ Incidence ■ Mortality



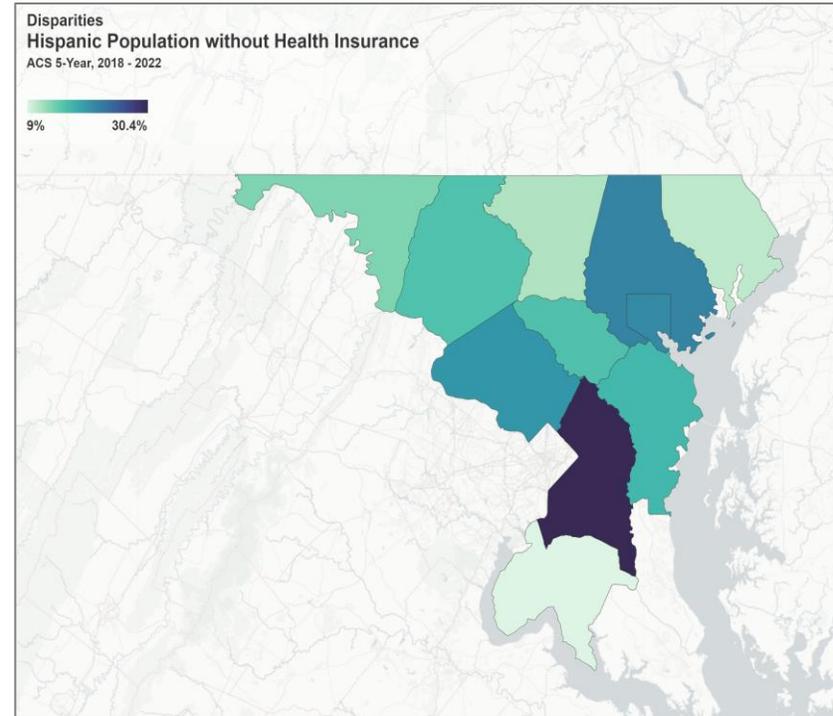
Maryland cancer disparities by site (2020)

■ Incidence ■ Mortality

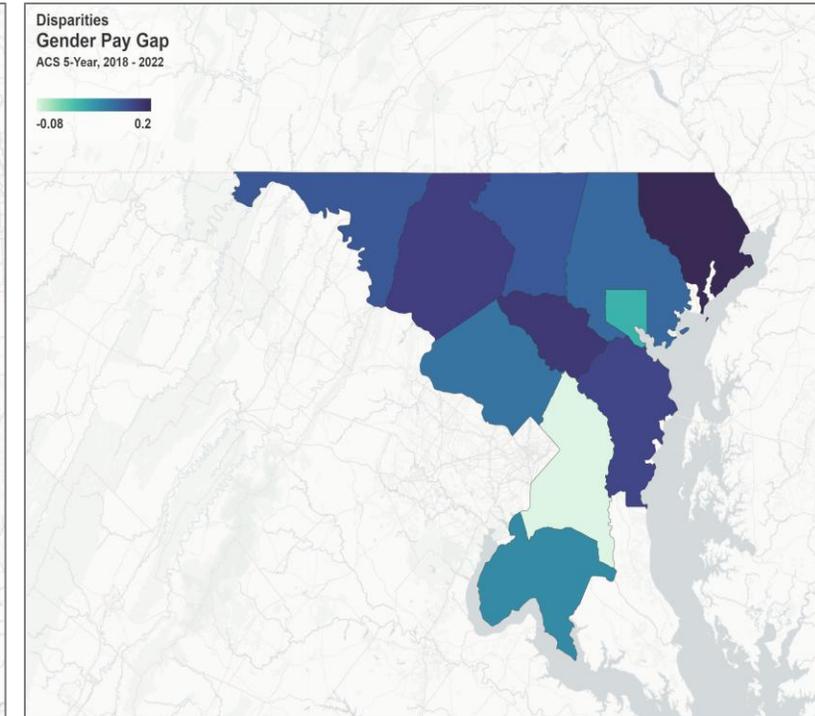




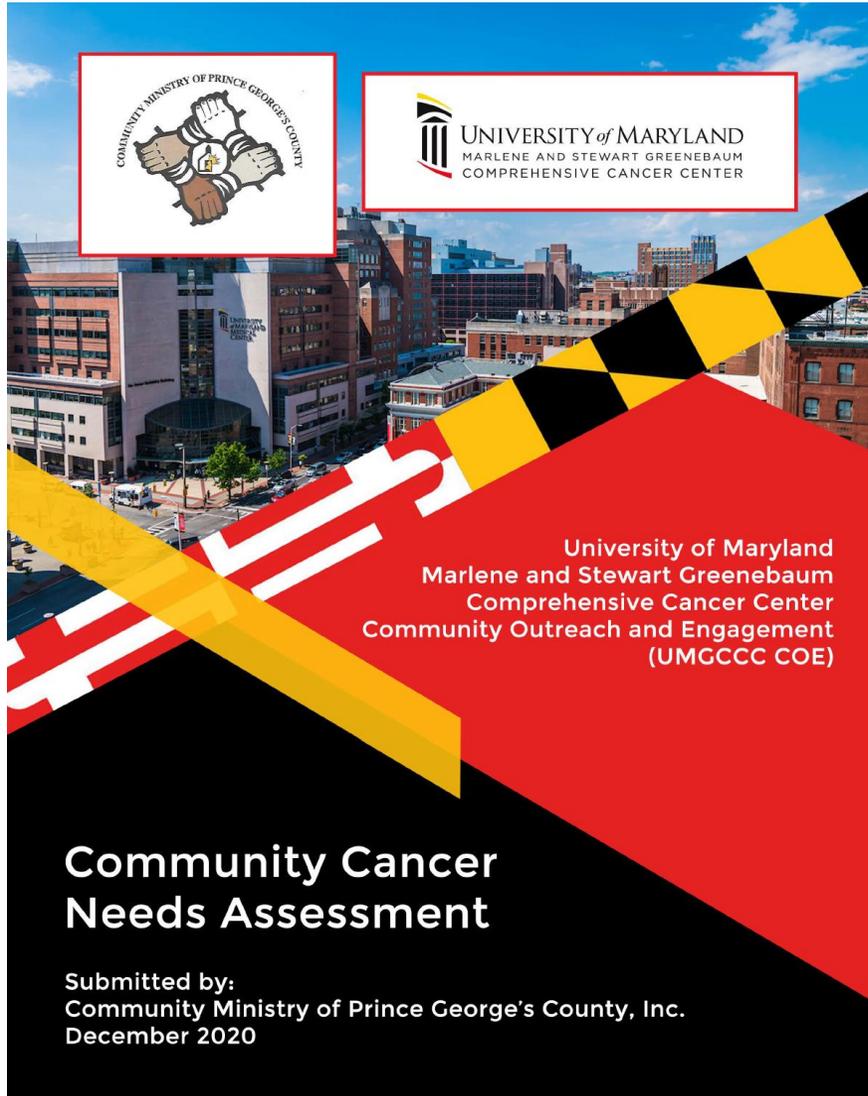
**Economic segregation**



**Hispanic population w/o  
health insurance**



**Gender pay gap**



**Purpose:** Identify cancer priorities in our catchment area

Survey responses from a diverse sample of 577 Marylanders

50+ responses from each catchment area county

Read the Report →



Findings from this community health survey are based on 577 survey responses from individuals in the UMGCCC catchment area. A minimum of 50 surveys were collected from each county (see Table 1). The average age of participants was 43 (standard deviation of 12), 59% were female, and 42% had completed a 4-year college degree or greater.

County	Frequency (%)
Anne Arundel	53 (9.2%)
Baltimore City/County	64 (11.1%)
Carroll	50 (8.7%)
Charles	50 (8.7%)
Frederick	67 (11.6%)
Harford	54 (9.4%)
Howard	62 (10.7%)
Montgomery	73 (12.7%)
Prince George's	52 (9.0%)
Washington	52 (9.0%)

The survey sample was intended to reflect racial and ethnic diversity of the UMGCCC catchment area

**59% Female**

**52% White**

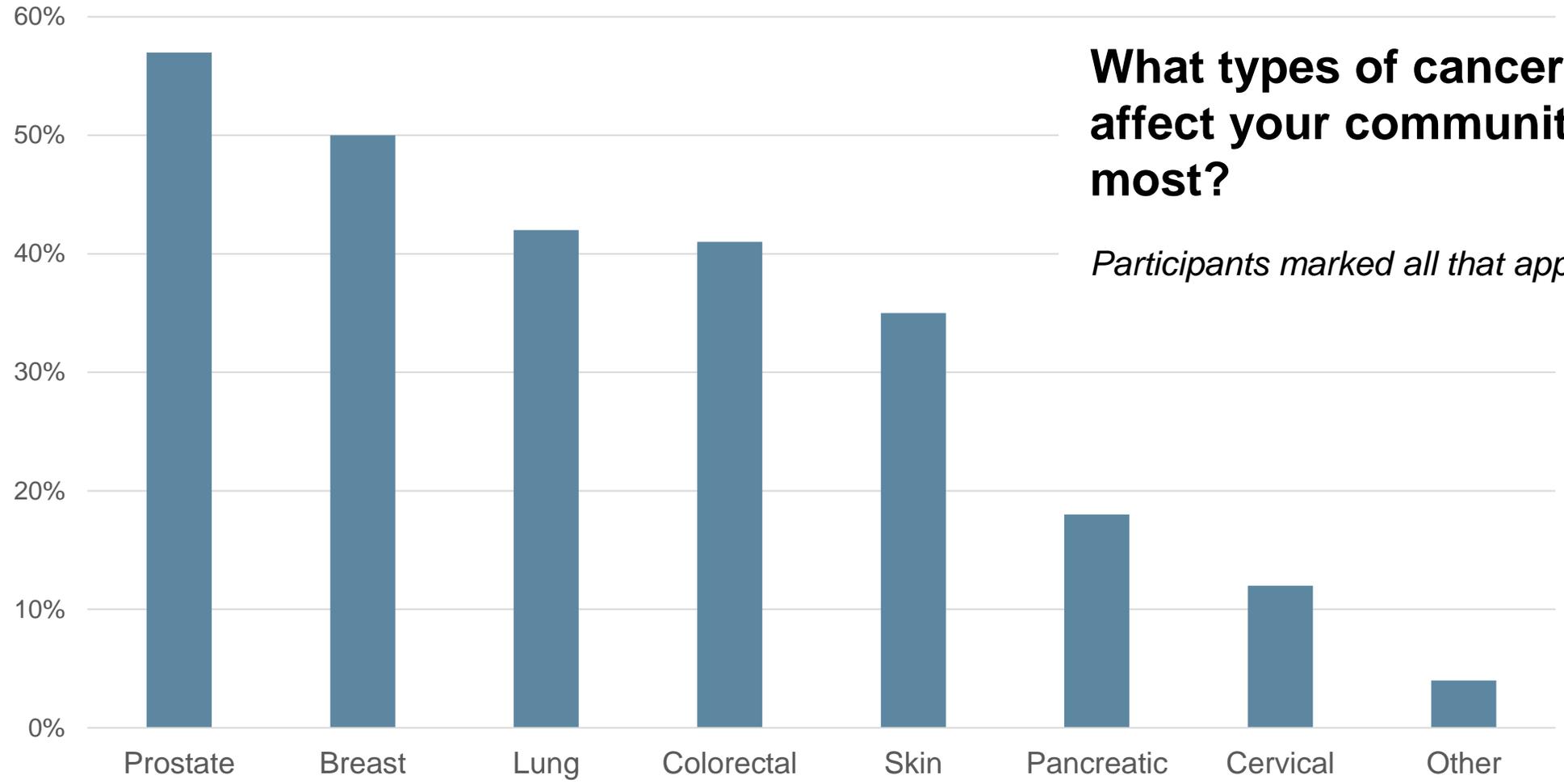
**11% Hispanic/Latino**

**26% Have had cancer**

	Frequency (%)
Age <sup>M</sup>	42.7 (12.4)
Gender <sup>Δ</sup>	
Female	339 (59.2%)
Male	234 (40.8%)
Race*	
White	298 (51.6%)
Black or African American	206 (35.7%)
American Indian or Alaska Native	23 (4.0%)
Asian	46 (8.0%)
Native Hawaiian or Pacific Islander	3 (0.5%)
Another race	13 (2.3%)
Hispanic, Latino	62 (10.7%)
Education	
Some high school or less	2 (0.3%)
High school or GED	37 (6.4%)
Some college	131 (22.7%)
2 year technical or trade school	168 (29.1%)
4-year college degree	121 (21.0%)
Master's degree or higher	118 (20.5%)
Employment	
Unemployed prior to COVID-19	75 (13.0%)
Unemployed due to COVID-19	137 (23.7%)
Receiving disability	5 (0.9%)
Retired	25 (4.3%)
Work part time	135 (23.4%)
Work full time	200 (34.7%)

\*Percentages may not sum to 100, as participants were able to select multiple racial categories.  
 •Percentage is of those diagnosed with cancer. Percentages may not sum to 100; participants were able to select multiple cancer diagnoses.  
<sup>M</sup> Mean (SD) are presented instead of frequency (%).  
<sup>Δ</sup>Four participants responded 'prefer not to answer' to this item.

# UMGCCC Community Cancer Needs Assessment

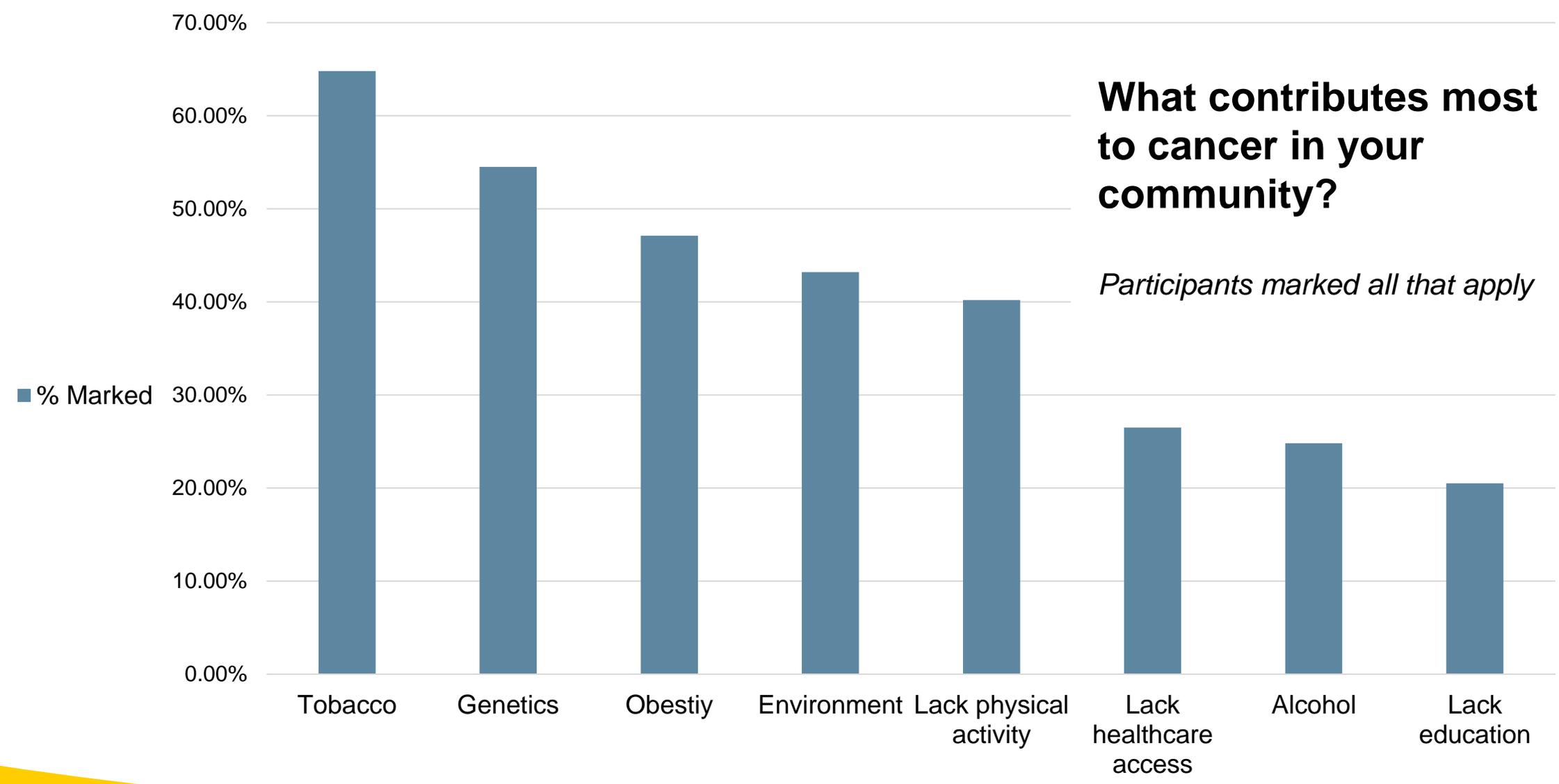


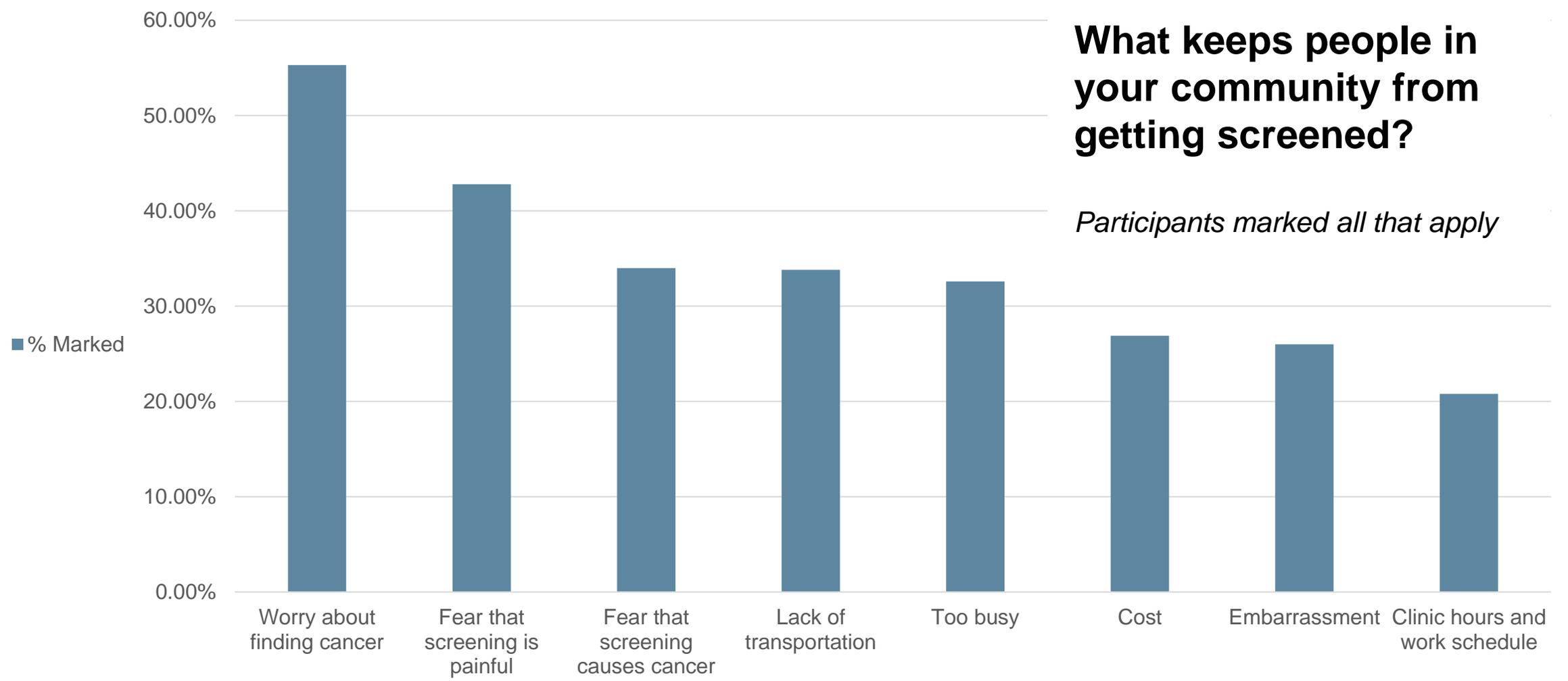
**What types of cancer affect your community most?**

*Participants marked all that apply*

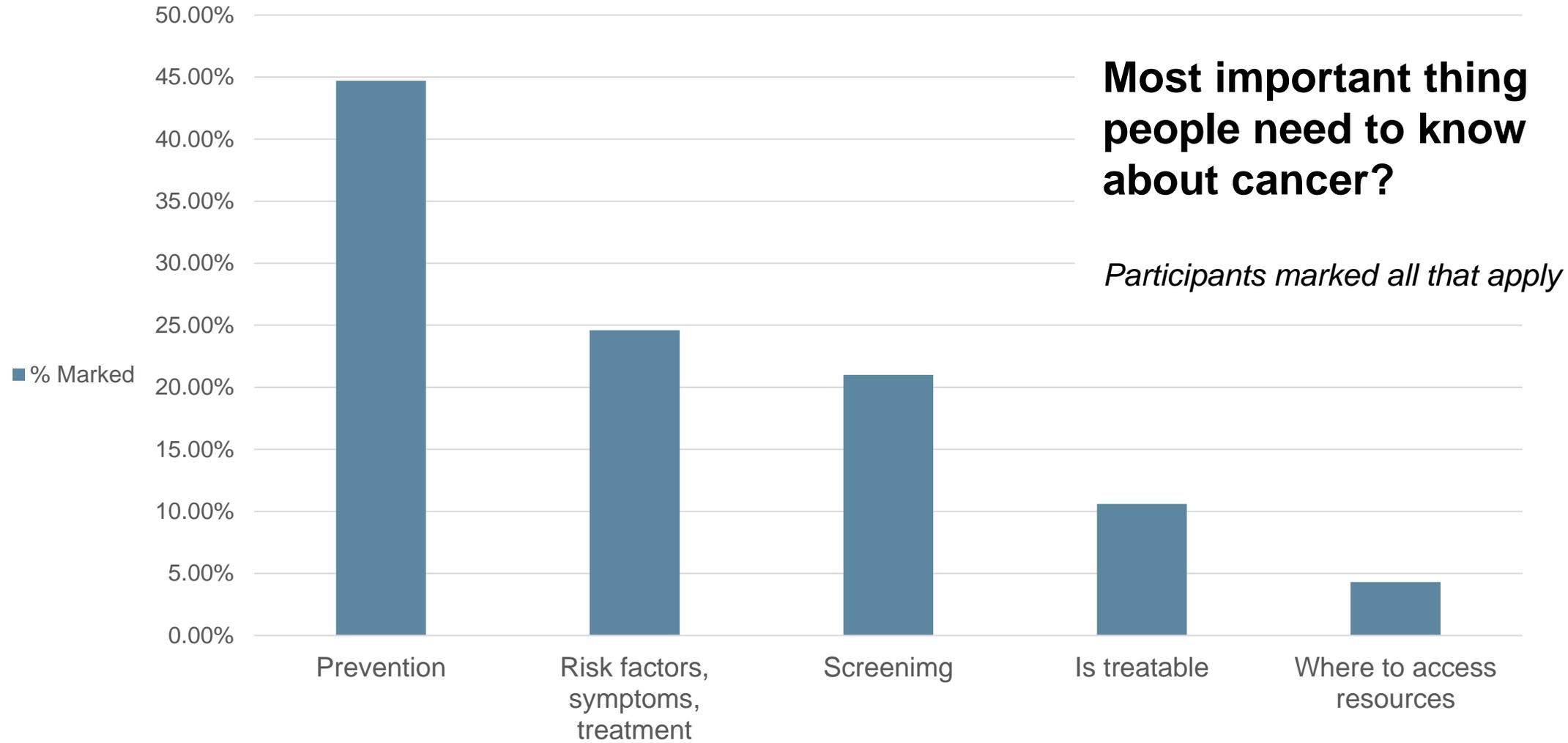
■ % Marked

# UMGCCC Community Cancer Needs Assessment

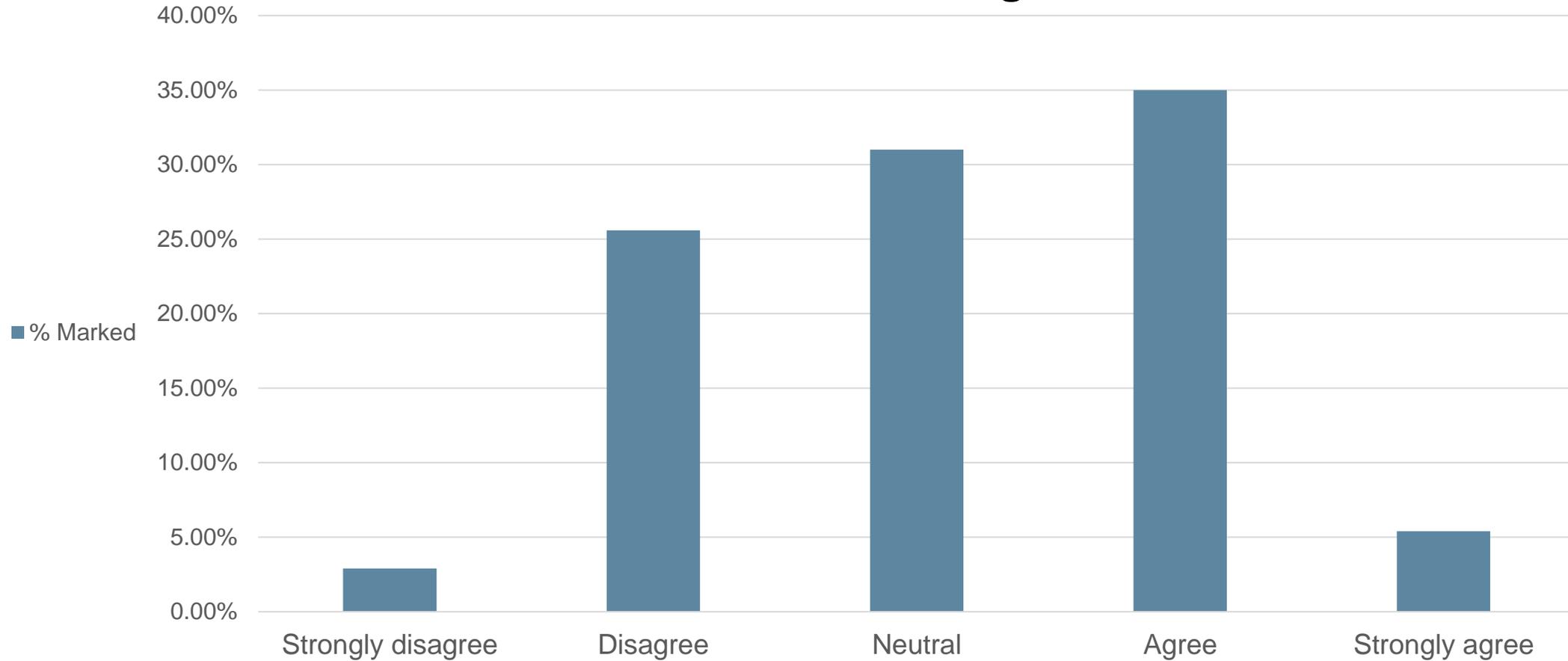




# UMGCCC Community Cancer Needs Assessment



## Likelihood of participating in a clinical trial to test a new cancer drug



Visit our website: [www.umgccc.org/community](http://www.umgccc.org/community)

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**Dr. Ntiri (sntiri@som.umaryland.edu)**

**Kathleen Lynch (klynch27@umd.edu)**



## Educational Attainment

U.S. Census Bureau. (2016). EDUCATIONAL ATTAINMENT . *American Community Survey, ACS 5-Year Estimates Subject Tables, Table S1501*. Retrieved August 20, 2024, from [https://data.census.gov/table/ACSST5Y2016.S1501?q=educational attainment&g=050XX00US24003,24005,24013,24017,24021,24025,24027,24031,24033,24043,24510&y=2016](https://data.census.gov/table/ACSST5Y2016.S1501?q=educational%20attainment&g=050XX00US24003,24005,24013,24017,24021,24025,24027,24031,24033,24043,24510&y=2016).

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U.S. Census Bureau. (2020). EDUCATIONAL ATTAINMENT. *American Community Survey, ACS 5-Year Estimates Subject Tables, Table S1501*. Retrieved August 20, 2024, from [https://data.census.gov/table/ACSST5Y2020.S1501?q=educational attainment&g=040XX00US24&y=2020](https://data.census.gov/table/ACSST5Y2020.S1501?q=educational%20attainment&g=040XX00US24&y=2020).

U.S. Census Bureau. (2020). EDUCATIONAL ATTAINMENT. *American Community Survey, ACS 5-Year Estimates Subject Tables, Table S1501*. Retrieved August 20, 2024, from [https://data.census.gov/table/ACSST5Y2020.S1501?q=educational attainment&y=2020](https://data.census.gov/table/ACSST5Y2020.S1501?q=educational%20attainment&y=2020).

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## Population

U.S. Census Bureau. (2016). ACS DEMOGRAPHIC AND HOUSING ESTIMATES. *American Community Survey, ACS 5-Year Estimates Data Profiles, Table DP05*. Retrieved August 20, 2024, from <https://data.census.gov/table/ACSDP5Y2016.DP05?q=population&g=050XX00US24003,24005,24013,24017,24021,24025,24027,24031,24033,24043,24510&y=2016>.

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## 65 and over/Female/Black/Hispanic/Asian

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## Median Income

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## Rural

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