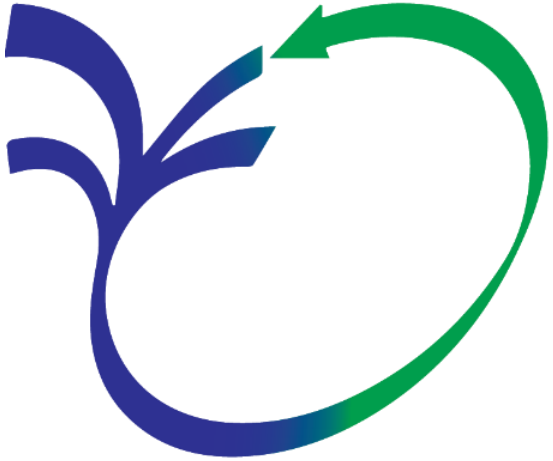
Health Trends

HEALTH FUND MEETING

SEPTEMBER 19, 2024

Helen Arthur
HPDP Section Chief, Division of Public Health
Department of Health and Social Services



BRFSS™

Behavioral Risk Factor Surveillance System

COSTS OF THE DELAWARE BRFSS

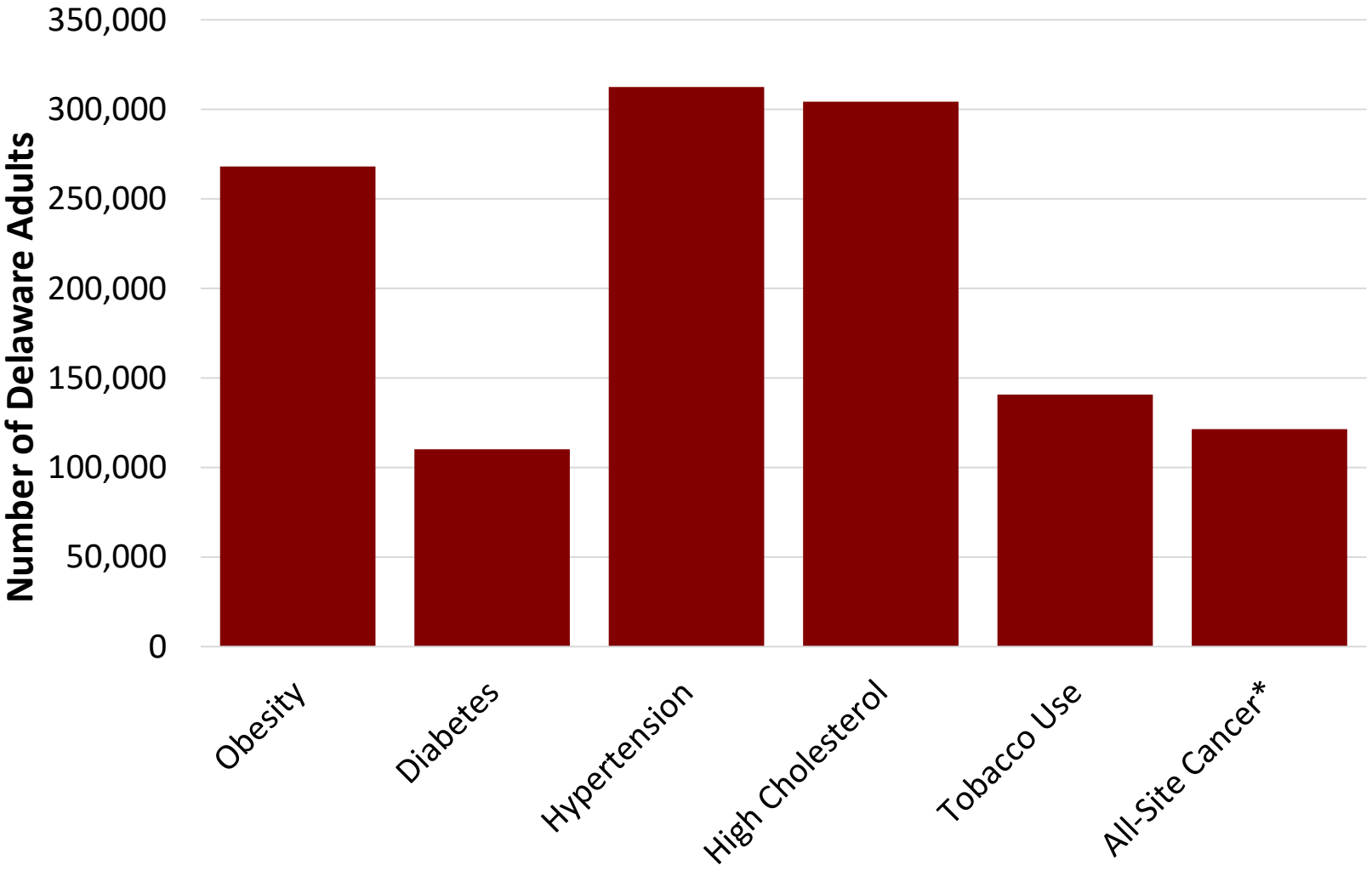
- Current sample target – 4000 surveys per year (CDC minimum)
- Current costs to administer the BRFS each year is @ $758,360/year
- Average amount of funding provided by CDC is $450,000.00/year

Current cost to administer survey	$758,360
Less funding provided by CDC	-$450,000
Supplemental funding needed	$308,360

BRFS ADMINISTRATION IN DELAWARE

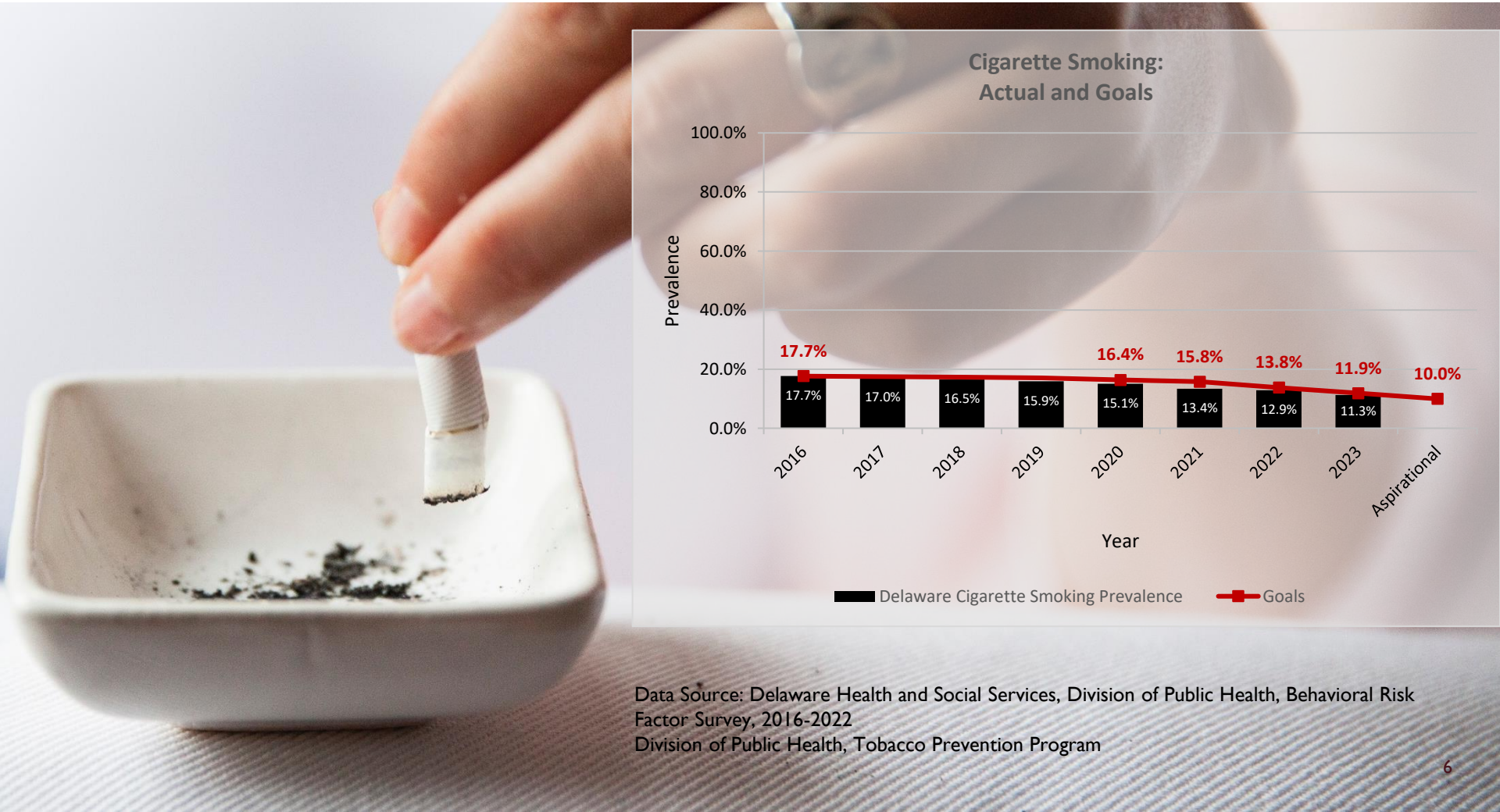
- Current target sample is 4000 (annually).
- Survey administration is contracted and conducted by a third-party vendor.
- Interview sampling method:
  - Cellphone – 75%
  - Landline – 25%
- CDC provides states a randomly selected monthly sample of survey participants.
- Survey participants are not compensated
- Participation is voluntary.

Number of Delaware Adults by Selected Chronic Disease



Chronic Diseases Data Source: Delaware Health & Social Services, Division of Public Health, Behavioral Risk Factor Survey (BRFS), 2023
*Cancer Data Source: Delaware Department of Health and Social Services, Division of Public Health, Delaware Cancer Registry, 2023

QUALITY BENCHMARK FOR TOBACCO USE



Data Source: Delaware Health and Social Services, Division of Public Health, Behavioral Risk Factor Survey, 2016-2022
Division of Public Health, Tobacco Prevention Program

11.3%

of adults smoke cigarettes

18.5%

of high school youth currently use any tobacco product

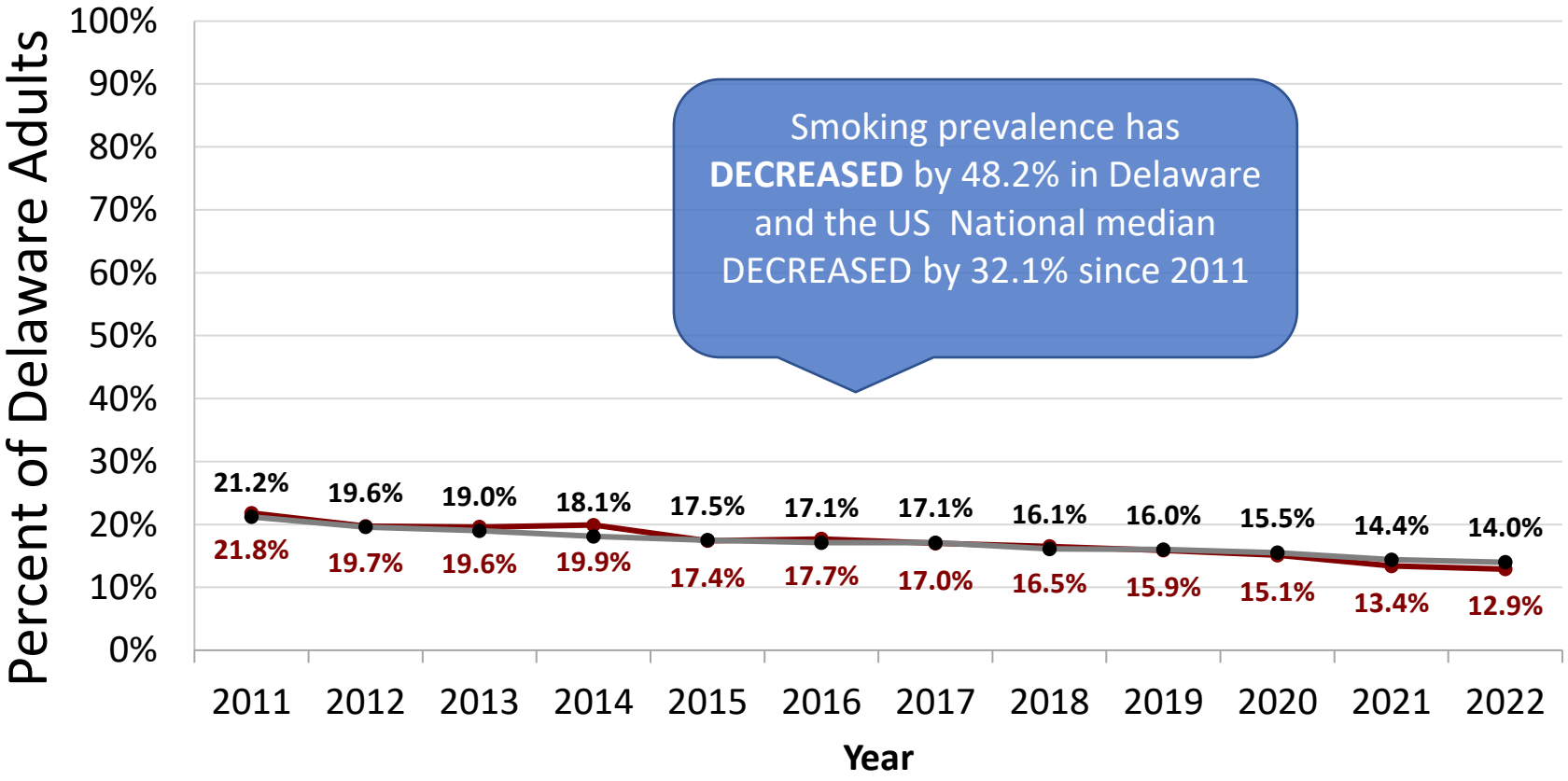
1,400

adults die from smoking-related illnesses each year

$300B

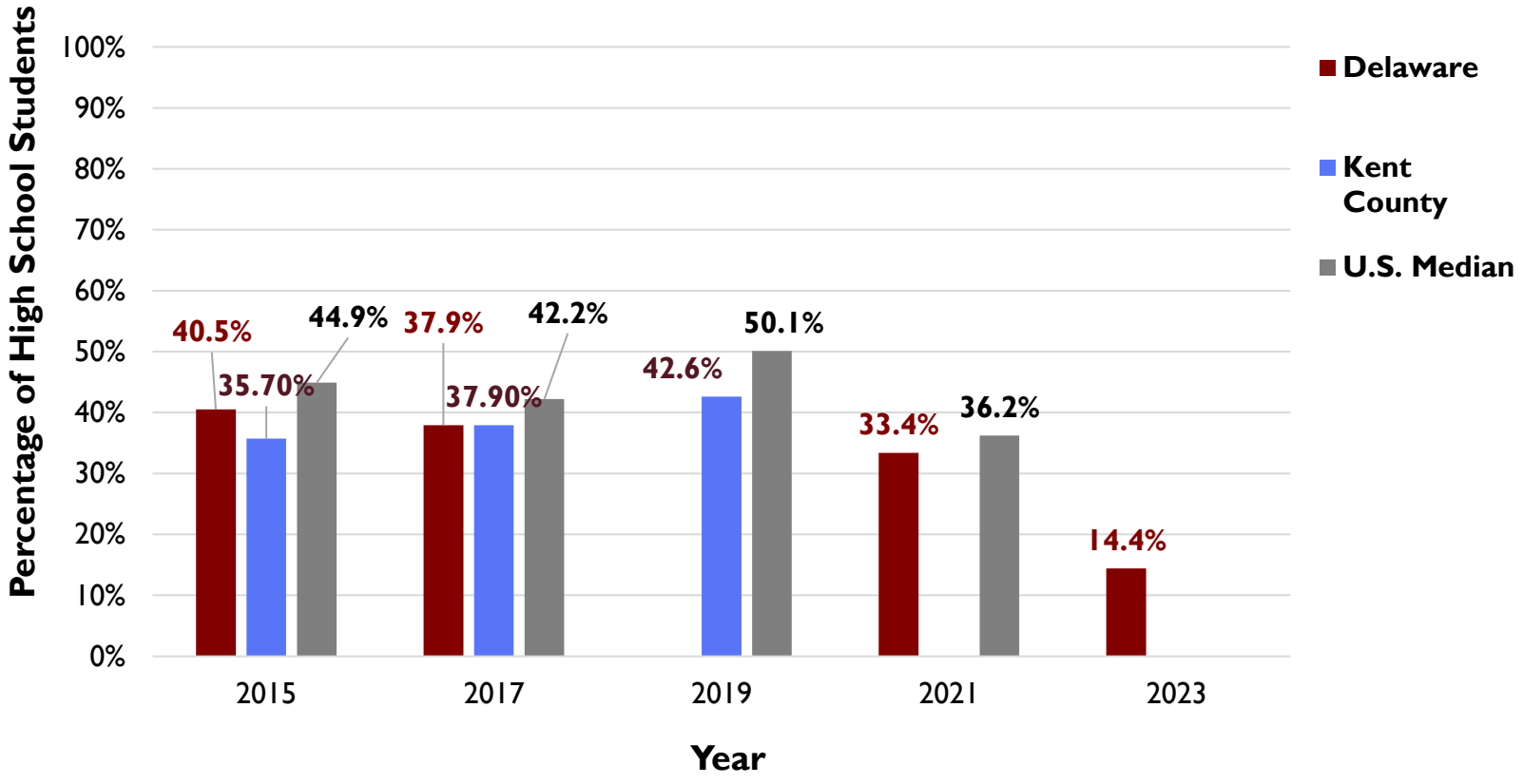
was spent on healthcare due to smoking annually

Delaware Adult Cigarette Smoking Prevalence, 2011-2022



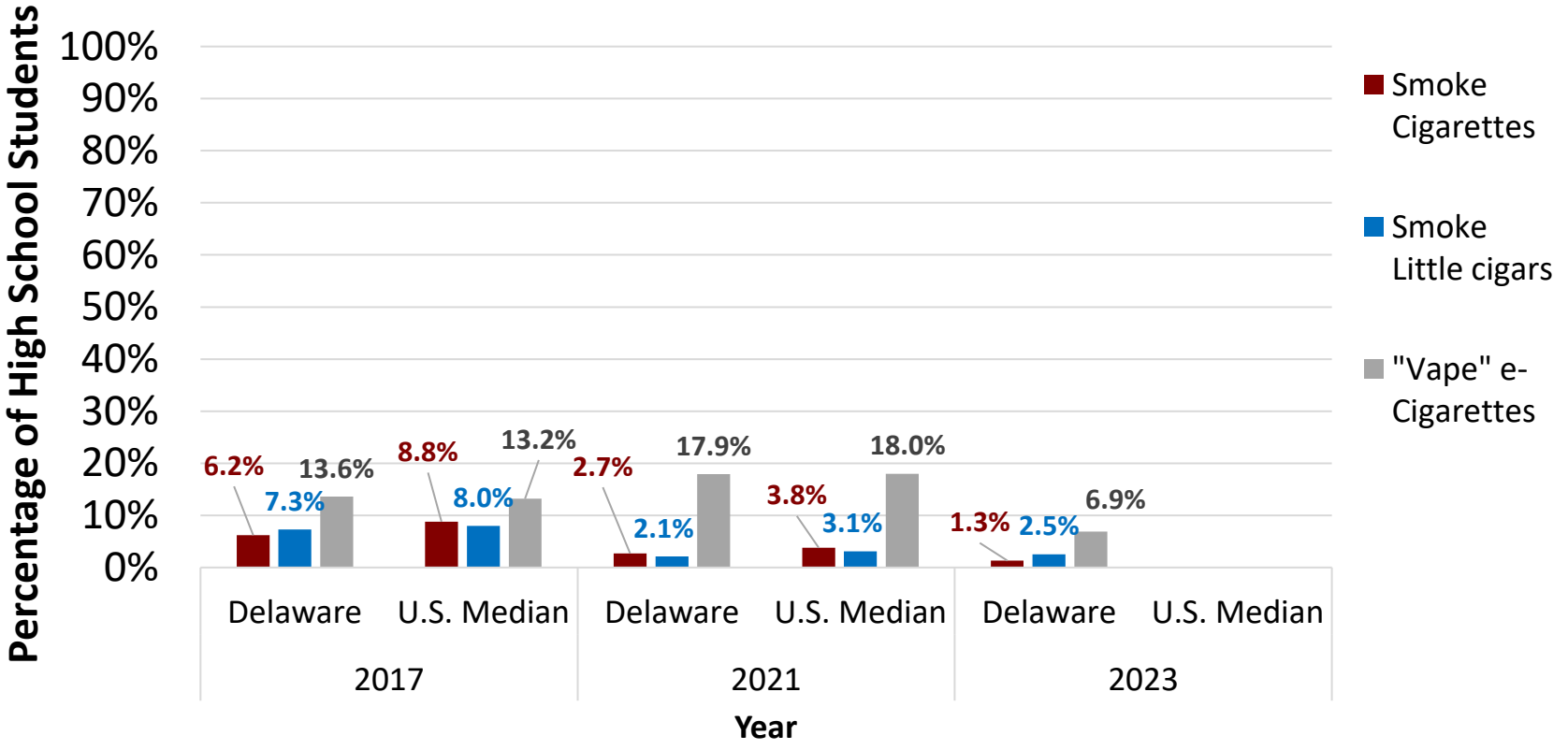
Source: Delaware Health & Social Services, Division of Public Health, Behavioral Risk Factor Survey (BRFS), 2011-2023

Percentage High School Students who EVER Used Electronic Vapor Products, Kent County, Delaware, and U.S., 2015-2023



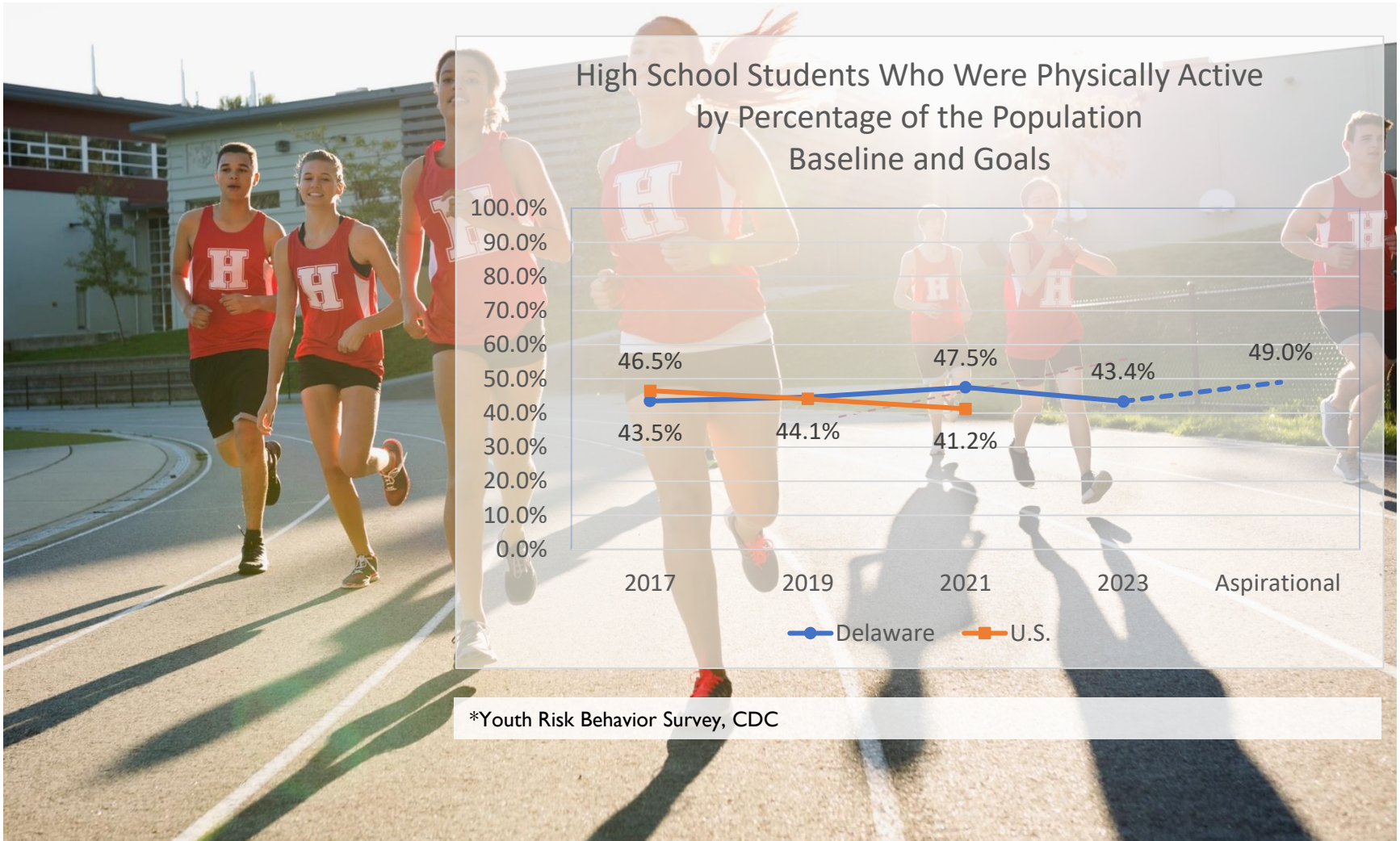
Source: Delaware Health & Social Services, Division of Public Health, Youth Risk Behavior Survey (YRBSS), 2015 - 2023
Note: Delaware statewide prevalence not available in 2019. Kent County prevalence not available in 2021 or 2023. U.S. Median has not been published for 2023.

Percentage of High School Students who Currently Use Different Tobacco Products, Delaware and U.S. National Median, 2017, 2021, and 2023



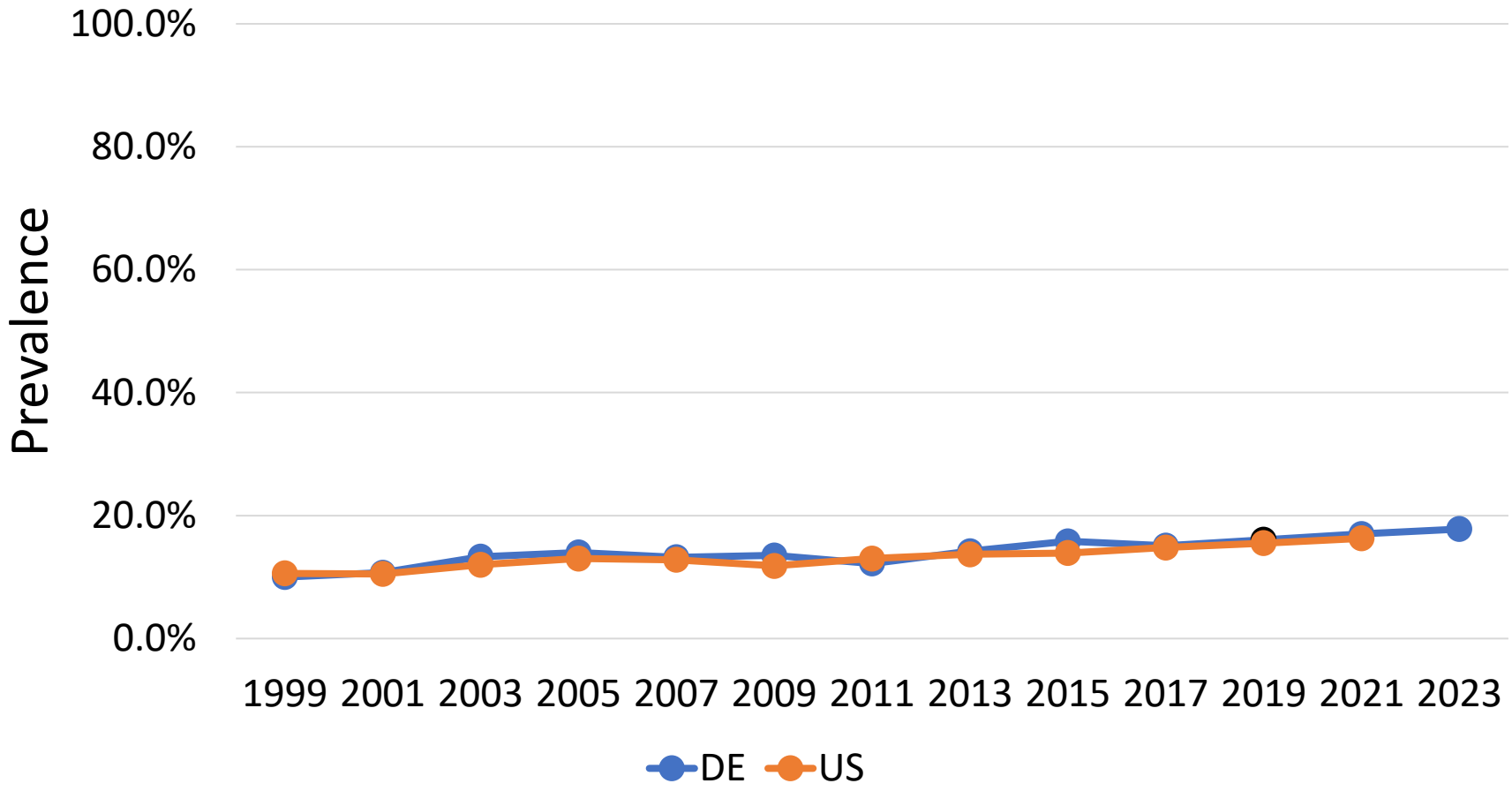
Source: Delaware Health & Social Services, Division of Public Health, Youth Risk Behavior Survey (YRBSS), 2017-2023
Note: U.S. YRBS data have not been made publicly available

QUALITY BENCHMARK FOR HIGH SCHOOL STUDENTS WHO WERE PHYSICALLY ACTIVE



*Youth Risk Behavior Survey, CDC

High School Students who were Obese, DE and US, 1999-2023



Source: Delaware Health & Social Services, Division of Public Health, Youth Risk Behavior Survey (YRBSS), 1999-2023

39.7%

of Delaware adults consume fruit less than once per day

20.5%

of Delaware adults consume vegetables less than once per day

11.5%

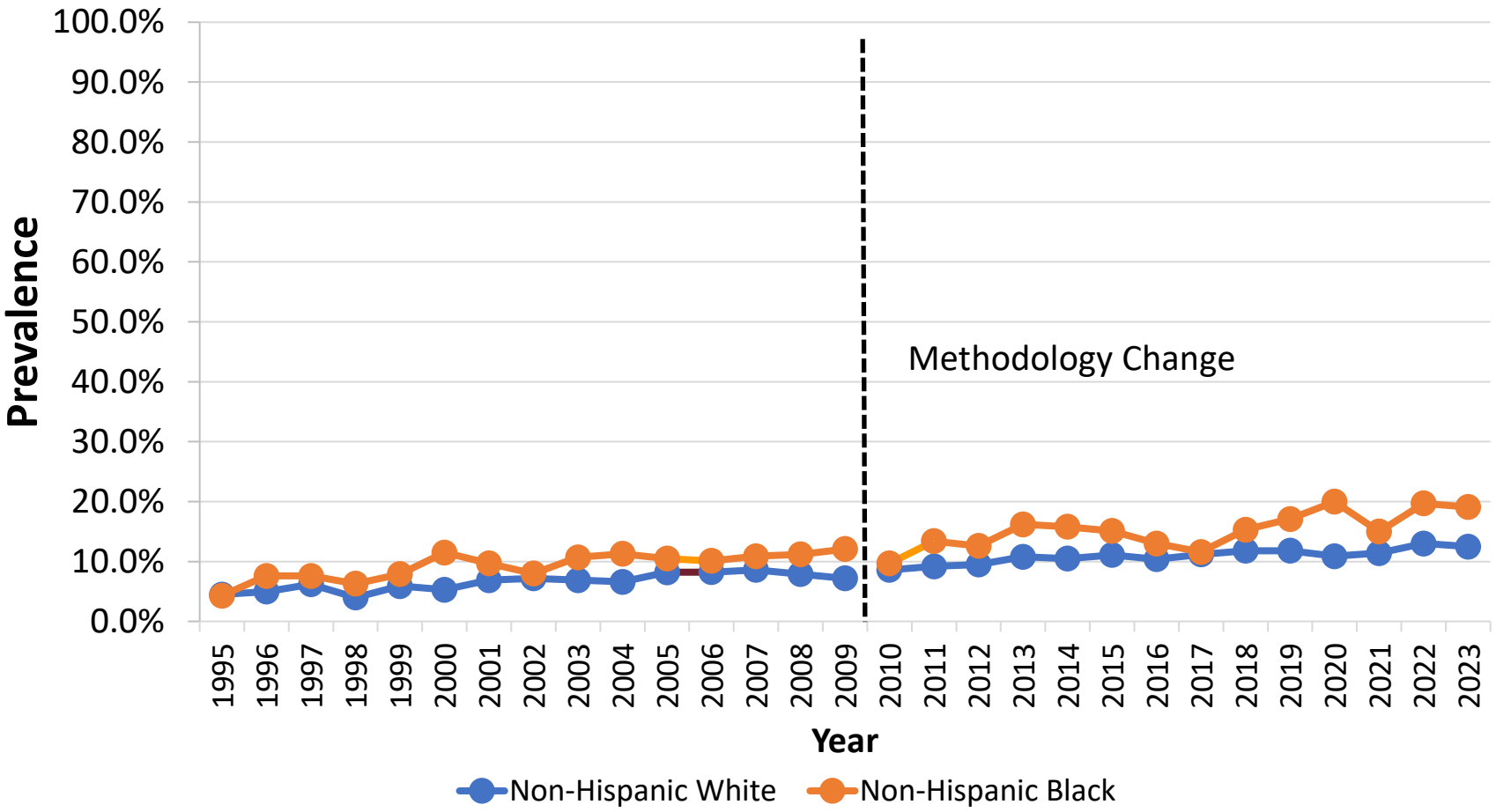
of Delaware households were food insecure

42%

of Delaware's population has low food access

CHRONIC DISEASES

Prevalence of Delaware Adults Diagnosed with Diabetes by Race, 2000-2023



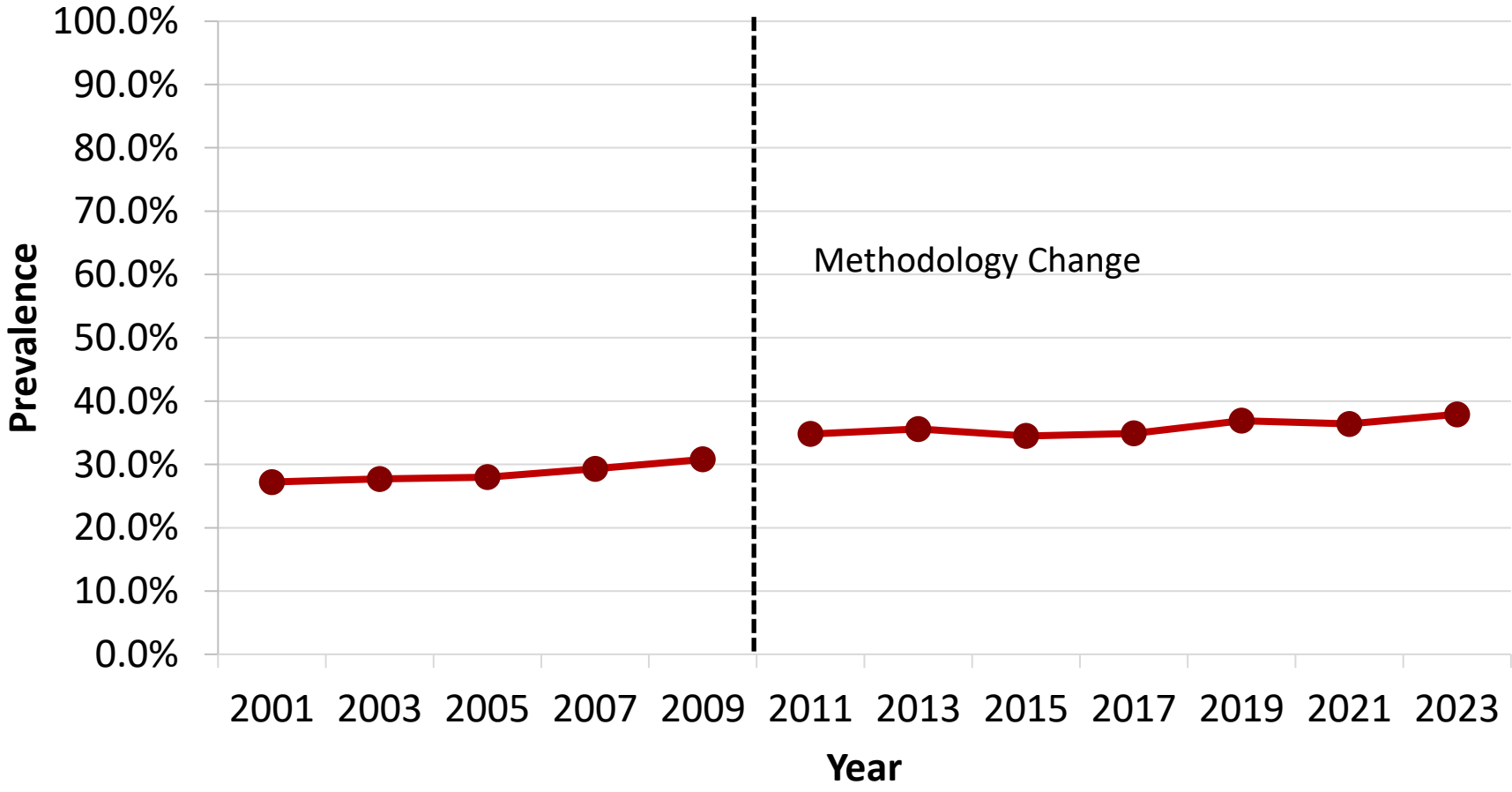
Source: Delaware Health & Social Services, Division of Public Health, Behavioral Risk Factor Survey (BRFS), 1995-2023

DIABETES BY OBESITY/OVERWEIGHT

- ***Obesity:*** 20 percent of obese Delaware adults have diabetes, compared to 6.2 percent of normal weight Delaware adults.
- ***Overweight:*** 13.3 percent of overweight Delaware adults have diabetes, compared to 6.2 percent of normal weight Delaware adults.

Source: Delaware Health and Social Services, Division of Public Health, Delaware Behavioral Risk Factor Survey, 2023.

Prevalence of Delaware Adults Diagnosed with Hypertension, 2001-2023



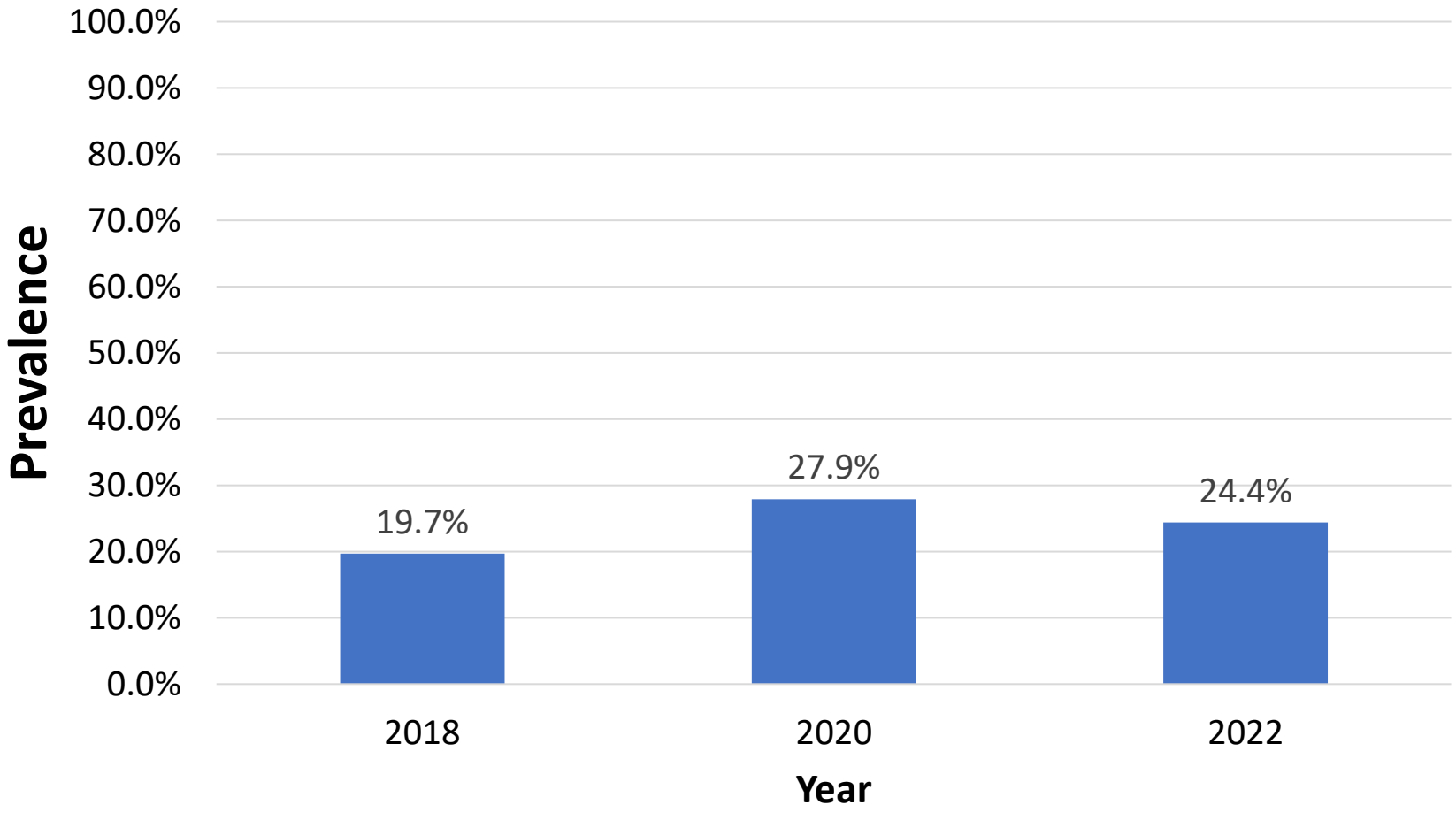
Source: Delaware Health & Social Services, Division of Public Health, Behavioral Risk Factor Survey (BRFS), 2001-2023

COVID-19 AND CHRONIC DISEASE

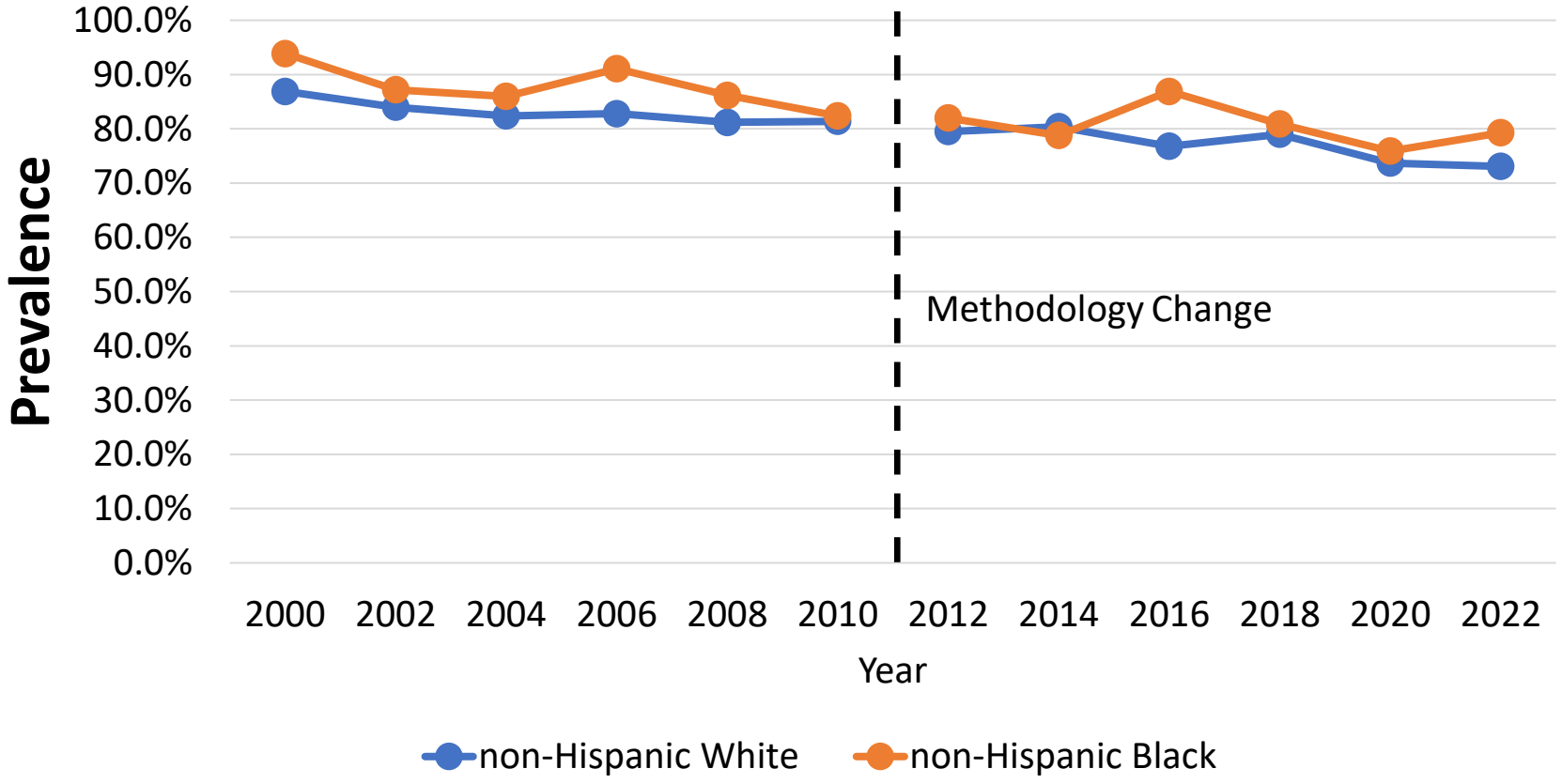
- Linked to increased severe illness and negative outcomes:
  - OBESITY
  - PREDIABETES
  - DIABETES
  - HYPERTENSION
- COVID-19 Illness is also linked to new onset diabetes
  - Could affect diabetes prevalence estimates in the upcoming years

CANCER SCREENING

Prevalence of Eligible Delaware Adults Who Have Been Screened for Lung Cancer, 2018-2022

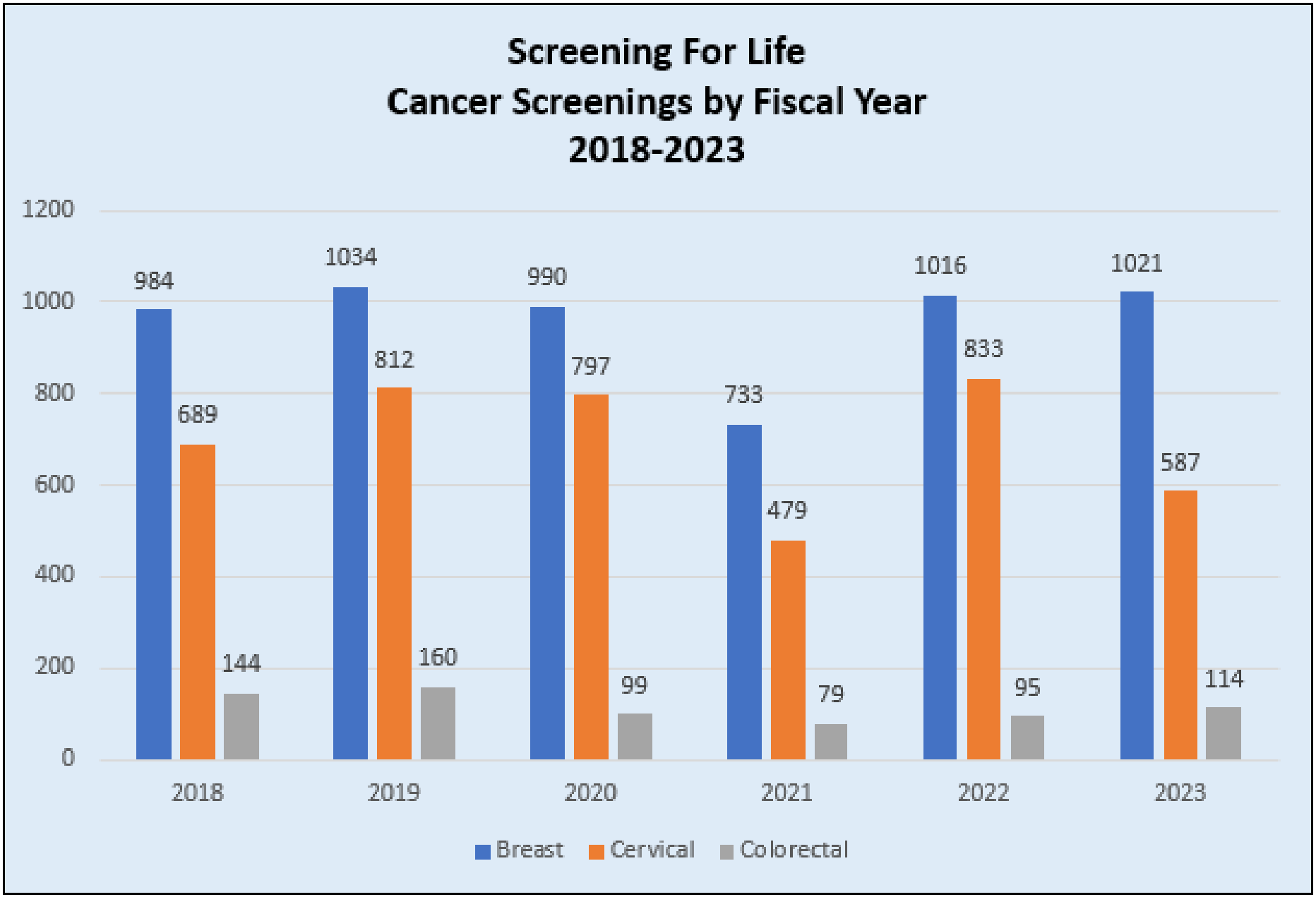


Prevalence of Delaware Women ages 40 and Older Who Have Received a Mammogram Within the Past Two Years, 2000-2022



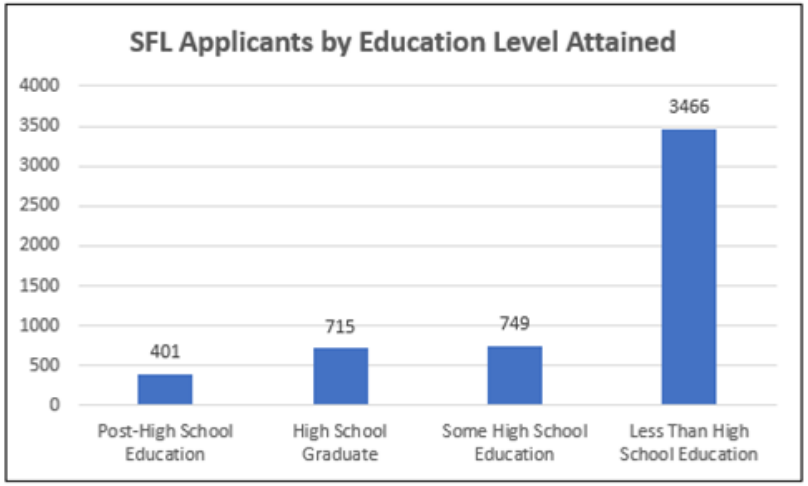
Source: Delaware Health & Social Services, Division of Public Health, Behavioral Risk Factor Survey (BRFS), 2014-2022

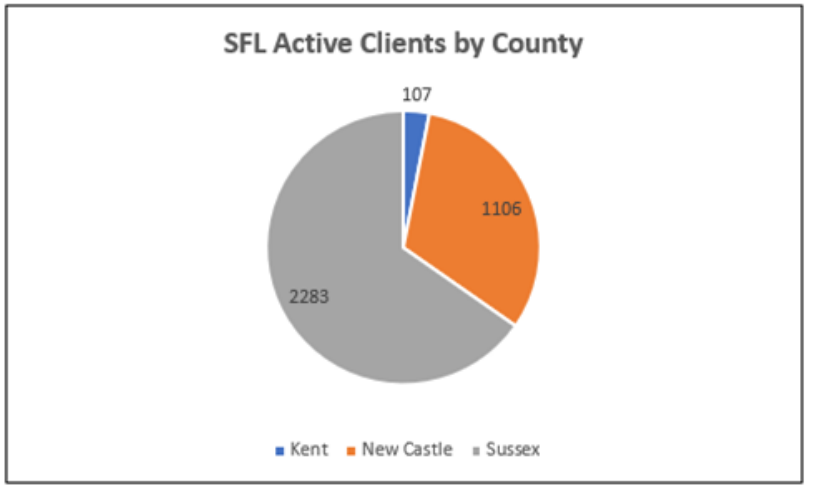
Screening For Life
Cancer Screenings by Fiscal Year
2018-2023

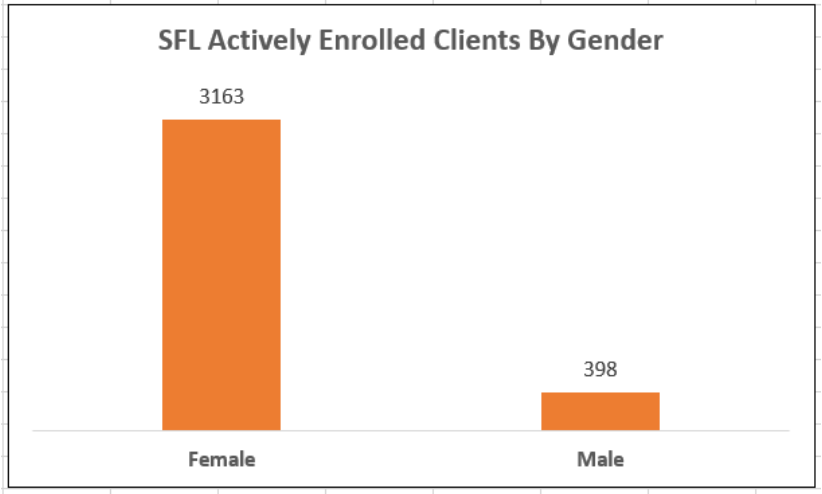


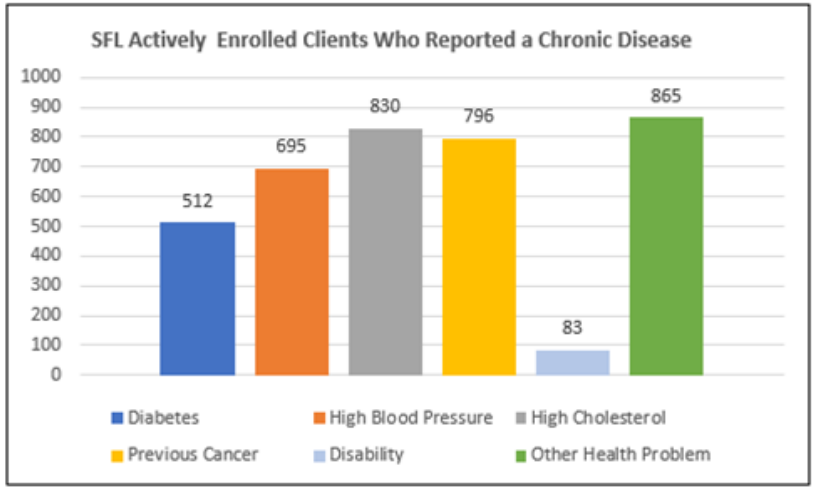
Source: Delaware Department of Health and Social Services, Division of Public Health, Screening For Life (SFL) program, August 2024

Screening for life (SFL) Demographics June 2023 to July 2024









Cancer DISPARITIES, 2016-2020

DELAWARE HEALTH AND SOCIAL SERVICES
Division of Public Health
Comprehensive Cancer Control Program

October 2023

Delaware Cancer Mortality Rates per 100,000 population by site and race, 2016-2020

Non-Hispanic White

Cancer Site	DE Rate (Both Sexes)	U.S. Rate (Both Sexes)	DE Cases (2016-2020)
All Sites	158.9	154.3	8,186
Lung and Bronchus	40.5	38.0	2,158
Female Breast ♀	20.3	19.7	542
Prostate ♂	15.7	17.8	355
Colon and Rectum	12.8	13.1	637
Pancreas	11.8	11.2	629
Leukemia	6.5	6.4	338
Ovary ♀	6.2	6.7	173
Liver/Intrahepatic Bile Duct	6.0	5.9	318
Urinary Bladder	5.6	4.6	296
Non-Hodgkin Lymphoma	5.5	5.4	282
Uterus ♀	4.9	4.6	142
Brain/Nervous System	4.7	5.1	216
Esophagus	4.5	4.3	231
Kidney and Renal Pelvis	3.7	3.6	190
Melanoma of the Skin	3.3	2.7	157
Myeloma	3.2	2.9	163
Stomach	2.8	2.1	132
Oral Cavity and Pharynx	2.4	2.7	127
Larynx	1.2	0.9	62
Cervix ♀	2.3	2.0	49
Thyroid	0.5	0.5	26
Hodgkin Lymphoma	--	0.3	--
Testis ♂	--	0.3	--

Non-Hispanic Black

Cancer Site	DE Rate (Both Sexes)	U.S. Rate (Both Sexes)	DE Cases (2016-2020)
All Sites	171.7	174.7	1,842
Lung and Bronchus	37.1	37.2	403
Prostate ♂	32.6	37.5	127
Female Breast ♀	26.8	27.6	163
Pancreas	15.8	13.6	168
Colon and Rectum	14.9	17.6	158
Liver/Intrahepatic Bile Duct	9.6	8.3	114
Uterus ♀	8.2	9.1	53
Myeloma	6.0	5.9	61
Ovary ♀	5.8	5.7	40
Leukemia	4.9	5.2	51
Stomach	4.6	5.0	48
Urinary Bladder	4.4	3.4	43
Non-Hodgkin Lymphoma	3.9	3.9	41
Kidney and Renal Pelvis	3.6	3.4	39
Brain/Nervous System	2.7	2.8	31
Oral Cavity and Pharynx	2.4	2.5	28
Esophagus	2.3	2.9	27
Cervix ♀	2.8	3.3	17
Larynx	1.6	1.5	18
Thyroid	--	0.5	--
Melanoma of the Skin	--	0.3	--
Testis ♂	--	0.2	--
Hodgkin Lymphoma	--	0.2	--

Hispanic

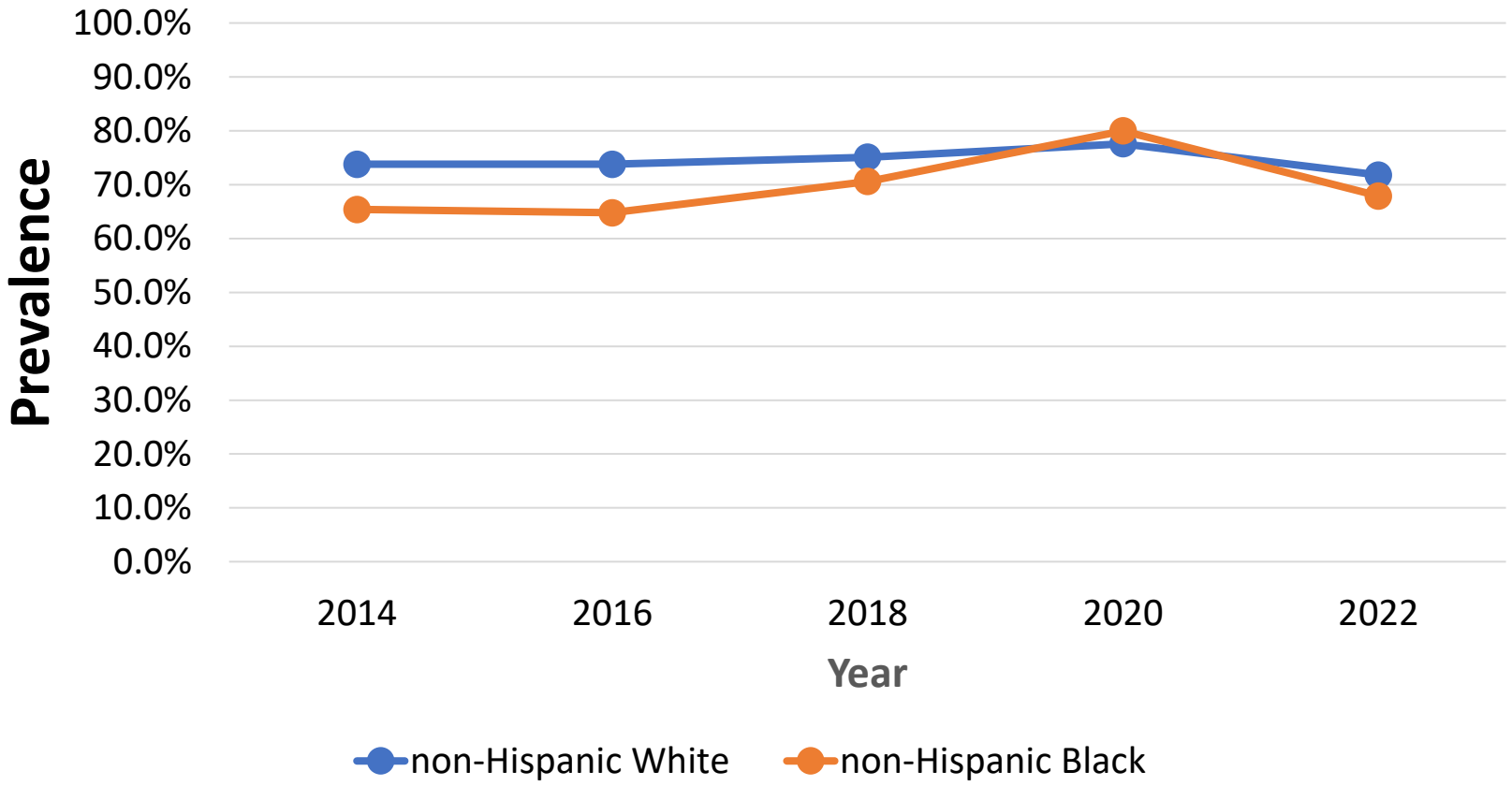
Cancer Site	DE Rate (Both Sexes)	U.S. Rate (Both Sexes)	DE Cases (2016-2020)
All Sites	110.0	108.2	242
Lung and Bronchus	18.1	15.4	38
Liver/Intrahepatic Bile Duct	9.5	9.2	24
Colon and Rectum	8.1	10.7	20
Stomach	7.7	4.8	19
Prostate ♂	--	15.3	--
Non-Hodgkin Lymphoma	--	4.5	--
Pancreas	--	8.8	--
Leukemia	--	4.3	--
Myeloma	--	2.6	--
Female Breast ♀	--	13.7	--
Kidney and Renal Pelvis	--	3.3	--
Oral Cavity and Pharynx	--	1.5	--
Urinary Bladder	--	2.3	--
Brain/Nervous System	--	3.1	--
Esophagus	--	1.9	--
Uterus ♀	--	4.3	--
Larynx	--	0.6	--
Ovary ♀	--	4.9	--
Hodgkin Lymphoma	--	0.3	--
Cervix ♀	--	2.5	--
Melanoma of the Skin	--	0.6	--
Testis ♂	--	0.3	--
Thyroid	--	0.6	--

Technical Notes: Rates are per 100,000 population and are age-adjusted to the 2000 U.S. standard population (19 age groups – Census P25–1130) and exclude basal cell and squamous cell skin cancers. Mortality data were coded using the International Classification of Disease Tenth Revision (ICD-10) coding system and were grouped into the same cancer sites used for cancer incidence reporting for consistency (https://seer.cancer.gov/codrecode/1969_d03012018/index.html). Delaware deaths include Delaware residents only at the time of death. Delaware rates are referenced as DE and U.S. references the United States.

♂ Rate includes only males.
♀ Rate includes only females.
-- Rates based on fewer than 16 deaths are not individually calculated.

Sources: Delaware: Delaware Department of Health and Social Services, Division of Public Health, Delaware Health Statistics Center, 2023
United States: Surveillance, Epidemiology, and End Results (SEER) Program, SEER*Stat Database: Mortality - All Cause of Death, Aggregated With State, Total U.S. (1990-2020), June 2022

Prevalence of Delaware Adults by Race Who Have Met the USPSTF Colorectal Cancer Screening Recommendations, 2014-2022



Source: Delaware Health & Social Services, Division of Public Health, Behavioral Risk Factor Survey (BRFS), 2014-2022

ESTIMATED ECONOMIC COSTS OF CANCER

- According to the National Institutes of Health, the projected National total cost of cancer care in 2030:
  - $245 Billion
    - 30% increase from 2015
  - Lung Cancer, Prostate Cancer and Breast Cancer estimated to have the largest expenditures.
  - Thyroid cancer, melamona, kidney cancer are projected to increase by at least 50% between 2019 and 2030.

Mariotto AB, Yabroff KR, Shao Y, Feuer EJ, Brown ML. Projections of the cost of cancer care in the United States: 2010-2020 [published correction appears in J Natl Cancer Inst. 2011 Apr 20;103(8):699]. *J Natl Cancer Inst*. 2011;103(2):117-128. doi:10.1093/jnci/djq495