Snapshot is a publication that demonstrates the uses of Behavioral Risk Factor Surveillance System (BRFSS) data to illustrate various health behaviors among adult Californians. BRFSS is the largest, ongoing, telephone health survey in the world. Established in 1984, the California BRFSS is an annual effort by the California Department of Public Health (CDPH), Chronic Disease Surveillance and Research Branch, in collaboration with the U.S. Centers for Disease Control and Prevention (CDC), to assess the prevalence of and trends in health-related behaviors and to monitor preventable risk factors for chronic diseases and other leading causes of death in the California adult population.

BREAST CANCER SCREENING DISPARITIES AND ASSOCIATED RISK FACTORS **AMONG CALIFORNIA WOMEN, 2012-2018**

Mammography is the most effective screening tool used today to find breast cancer in women. Yet, some sociodemographic and behavioral risk factors are known to affect women's ability to meet cancer screening guidelines. As described in <u>Snapshot: Breast Cancer Screening Among California Adult Women, 2012-2018</u>, BRFSS breast cancer screening data indicate that the overall proportion of California women, aged 50 to 74 years, meeting United States Preventive Services Task Force (USPSTF) guidelines¹ for breast cancer screening was 81.6 percent. While the prevalence of meeting screening guidelines was 8.6 percent greater among Black non-Hispanic women (90.9 percent) than among White non-Hispanic women (82.3 percent), Black non-Hispanic women are still more likely than White non-Hispanic women to die from breast cancer.²

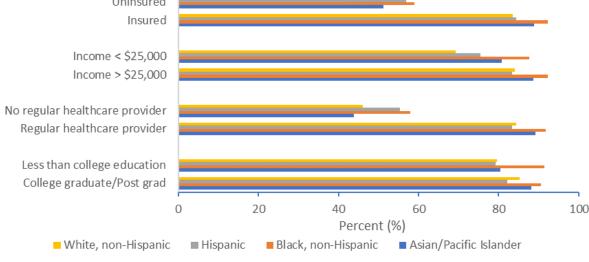
California BRFSS Breast Cancer Screening Questions:

- 1) A mammogram is an x-ray of each breast to look for breast cancer. Have you ever had a mammogram? [If 'yes' to 1] ...
- 2) How long has it been since you had your last mammogram?

California BRFSS data pooled from 2012 to 2018 show that breast cancer screening disparities are persistent among women without health insurance, with lower incomes, without a regular healthcare provider, and with lower achieved levels of education. Moreover, these sociodemographic factors that influence screening disparities vary across racial groups.



Sociodemographic Disparities for Mammography Among Women Aged 50 to 74 Years, BRFSS 2012-2018



Among California women aged 50 to 74 years, 52.9 percent without health insurance had a mammogram in the past two years, while 83.7 percent with health insurance had a mammogram in the past two years. Among the uninsured, only 40.4 percent of White non-Hispanic women reported having had a mammogram in the past two years compared to 83.6 percent with health insurance.

Among women aged 50 to 74 years reporting an annual household income of less than \$25,000, White non-Hispanics were the least likely to have had a mammogram in the past two years (69.3 percent), followed by Hispanics (75.4 percent), Asian and Pacific Islanders (80.8 percent), and Black non-Hispanics (87.7 percent).

Among women aged 50 to 74 years without a regular healthcare provider, only 49.9 percent reported having a mammogram in the past two years, while 84.1 percent with one or more healthcare providers met the recommended breast cancer screening guidelines. Among women aged 50 to 74 years, the largest disparity for meeting breast cancer screening guidelines among those without a regular healthcare provider compared to those with a regular healthcare provider was seen among Asian and Pacific Islander women (43.8 percent vs 89.2 percent, respectively).

a mammogram in the past two years compared to those with a college or post-graduate degree (91.4 percent vs 90.6 percent, respectively).

Interestingly, Black non-Hispanic women with less than a college education were slightly more likely to have had

All women have some risk of developing breast cancer. Some of these factors such as age and genetics can't be altered. However, lifestyle factors such as physical activity, being overweight, cigarette smoking, and alcohol intake, all known to be associated with increased risk for breast cancer, are modifiable.

24.1

100

80

70

60

86.0

White, non-Hispanic

Hispanic

Obese and screened in past two years

Breast Cancer Screening Practices and Associated Risk Factors

breast cancer than inactive women.3 Among women aged 50 to 74 years, Hispanics report the highest proportion of not having leisure time physical activity in the last 30 days (26.5 percent), however, White non-Hispanics reported a lower proportion of not having leisure time physical activity in the last 30 days while also having a mammogram in the past two years compared to Hispanics (73.0 percent vs 76.6 percent, respectively).

91.6

100

90

40

30

20

10 0

70

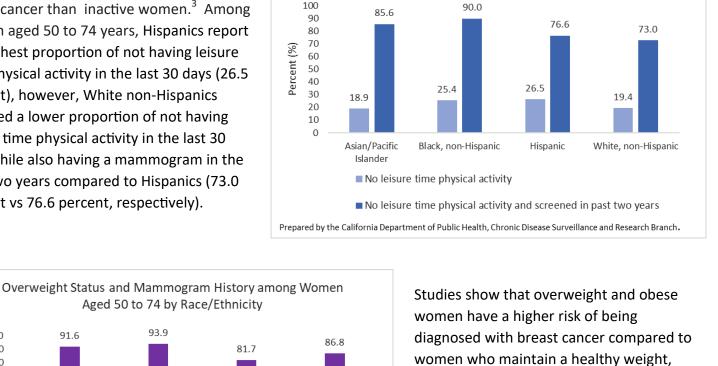
10.0

Asian/Pacific

Islander

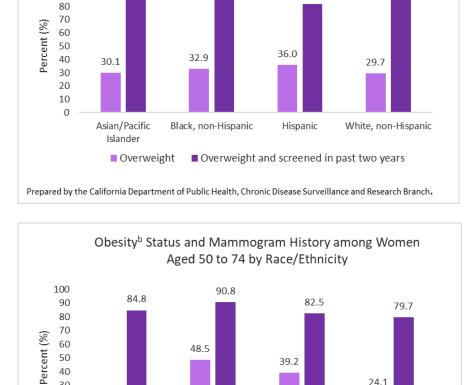
Many studies have demonstrated that women

who are physically active have a lower risk of



No Leisure Time Physical Activity^a and Mammogram History

among Women Aged 50 to 74 by Race/Ethnicity



Black, non-Hispanic

Prepared by the California Department of Public Health, Chronic Disease Surveillance and Research Branch.

93.9

compared to Black non-Hispanic (48.5 percent) and Hispanic (39.2 percent) women, yet BRFSS data show White non-Hispanic obese women reported the lowest proportion of having had a mammogram in the past two years (79.7 percent) compared to other racial groups.

74.9

59.3

especially after menopause. Among

women aged 50 to 74 years, Hispanics

appear to have the highest proportion of

being overweight (36.0 percent) and yet,

prevalence of having had a mammogram

White non-Hispanic women have a lower

prevalence for obesity (24.1 percent)

of those overweight, report the lowest

in the past two years (81.7 percent)

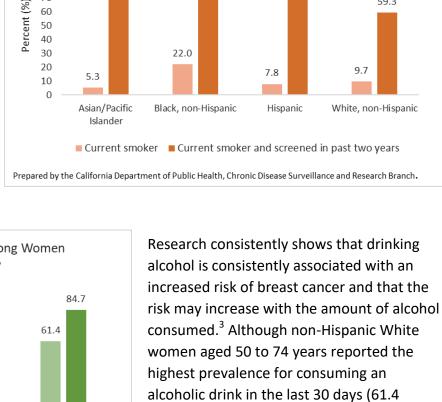
compared to other racial groups.

indicate that Black non-Hispanic women aged 50 to 74 years reported a higher prevalence for cigarette smoking (22.0 percent) compared to White non-Hispanic women (9.7 percent). Conversely, White non-Hispanic women that are current smokers reported the lowest prevalence for having a mammogram in the past two years (59.3 percent), while Black non-Hispanic women that are current smokers reported the highest prevalence (93.7 percent). Alcohol used and Mammogram History among Women Aged 50 to 74 by Race/Ethnicity 100 85.9 85.4 90 80

Cigarette smoking has been known to cause

risk of breast cancer in women.³ BRFSS data

several diseases and is linked to a higher



Cigarette smoking^c and Mammogram History among Women

Aged 50 to 74 by Race/Ethnicity

Percent (%) 60 45.3 50 33.3 40 24.4 30 20 10 0 Asian/Pacific Black, non-Hispanic Hispanic White, non-Hispanic ■ Alcohol use in last 30 days ■ Alcohol use in last 30 days and screened in past two years $Prepared \ by \ the \ California \ Department \ of \ Public \ Health, Chronic \ Disease \ Surveillance \ and \ Research \ Branch.$ women regarding breast cancer, breast cancer prevention, and the benefits of routine screening together play key roles in the fight against this disease.

mammogram in the past two years (84.7 percent) compared to other racial groups.

percent); inversely, these women reported

the lowest prevalence for having had a

While sociodemographic disparities and environmental risk factors may affect women's ability to meet breast cancer screening guidelines, behavioral modifications such as keeping a healthy weight, engaging in regular physical activity, and limiting alcohol intake can help reduce the risk of breast cancer. Greater awareness among

¹https://www.uspreventiveservicestaskforce.org/uspstf/recommendation/breast-cancer-screening ²California all cause mortality 1970-2018, 03/15/2021, California Department of Public Health, Center for Health Statistics Death Master

Files 1970-2018. DOF population estimates for 1970-1987, benchmarked DOF population estimates for 1988-1989, and NCHS population estimates for 1990-2018. https://www.cancer.org/cancer/breast-cancer/risk-and-prevention.html

Technical Notes: a) No leisure time physical activity is defined as having not participated in any leisure time physical activities or exercises during the past month, such as running, calisthenics, golf, gardening, or walking for exercise; b) Obesity is defined as body

mass index (BMI) greater than or equal to 30.0. BMI is defined as weight (in kilograms) divided by height (in meters) squared. Weight and height are self-reported; d) Current smoking is defined as an adult who reported having ever smoked at least 100 cigarettes (five packs) in their life and that they smoke cigarettes now, either every day or on some days; and d) Alcohol use is defined as the consumption of at least one drink in the last 30 days.

Center for Healthy Communities