# **Disaggregating Breast Cancer Mortality trends across Asian American** Groups from 2005-2020

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## BACKGROUND

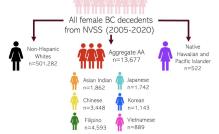
Breast cancer (BC) is the second leading cause of death among women.<sup>1</sup> Mortality trends for Asian American (AA) are often reported as an aggregate, masking heterogeneity.<sup>2</sup>

## **RESEARCH QUESTION**

How do BC mortality trends vary among the 6 major AA groups and Native Hawaiians and Pacific Islanders (NHPI) compared to non-Hispanic Whites (NHWs) from 2005-2020?

## METHODS

Breast cancer deaths → National Vital Statistics System, Cause of Death ICD-10 codes (C50/D05), race and ethnicity, state



**Population Estimates**  $\rightarrow$  American Community Health Survey for population estimates 2005-2020. US 2010 Census for population weighting

Calculated statistics:	PMR	AAMR
	Proportional Mortality Ratio	Age-Adjusted Mortality Rate*
		* reported per 100,000 person-years

## RESULTS

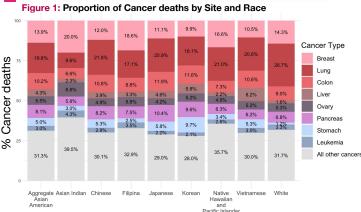
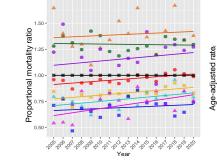
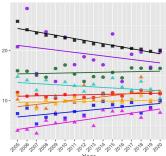


Figure 2: Change in BC Proportional

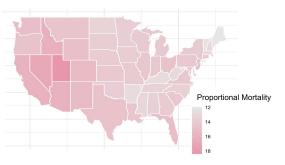
Mortality Ratios from 2005-2020



#### Figure 3: Change in BC Age-Adjusted Mortality Rates from 2005-2020



### Figure 4: Proportional BC Mortality by state for all races from 2005-2020



# DISCUSSION

- Breast cancer is the leading cause of cancer-related deaths in Asian Indians and Filipinas
- Proportion of BC deaths are increasing in all AA groups and NHPI compared to NHW
- Mortality trends are heterogeneous and converging
- Utah has the highest proportion of BC deaths ٠

## **Future Directions**

- Study mortality data in relation to incidence ٠
- Contextualize results to changes in screening and policy

#### Scan for abstract

#### References 1. Review: Introduction to Breast Cancer | SEER Training, Accessed August 14, 2023. https://training.seer.cancer.gov/breast/intro/review.html 2. Eden CM, Johnson J, Syrnioti G, Malik M, Ju T. The Landmark Series: The Breast Cancer Burden of the Asian American Population and the Need for Disaggregated Data, Ann Surg Oncol. 2023;30(4):2121-2127. doi:10.1245/s10434-023-13103-4





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