

Population Based Evaluation of Nasopharyngeal Carcinoma Mortality Trends in the United States

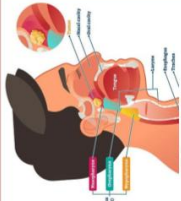


Center for Asian Health Research and Education

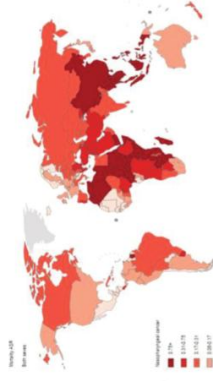
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Introduction



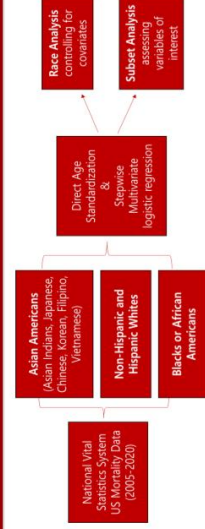
- Nasopharyngeal Cancer
- Risk Factors
 - Epstein-Barr Virus
 - Alcohol, Smoking, Tobacco Use
 - Diet (Salted, Cured, Fermented Foods)
- Global Mortality Rate: < 1 per 100,000
- Mortality Rates Differ by Race: Asians have **not** been Disaggregated in Literature



Objective

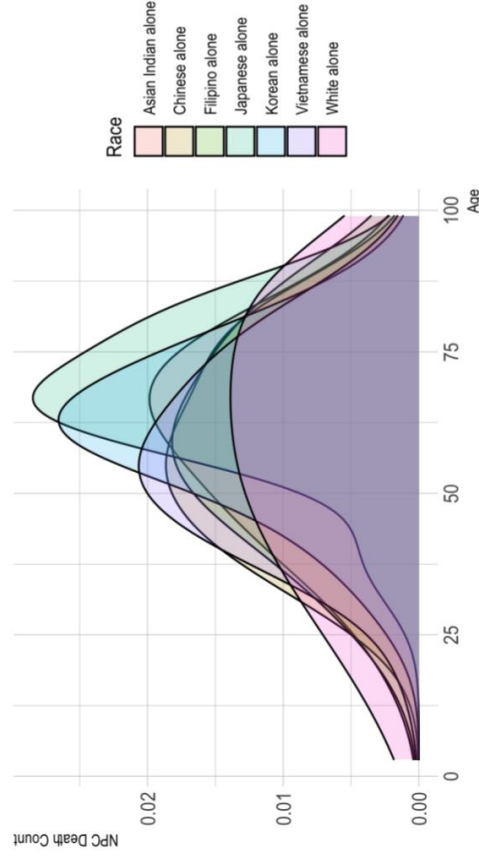
- To characterize NPC mortality trends by **race, nativity, sex, and age**

Methods

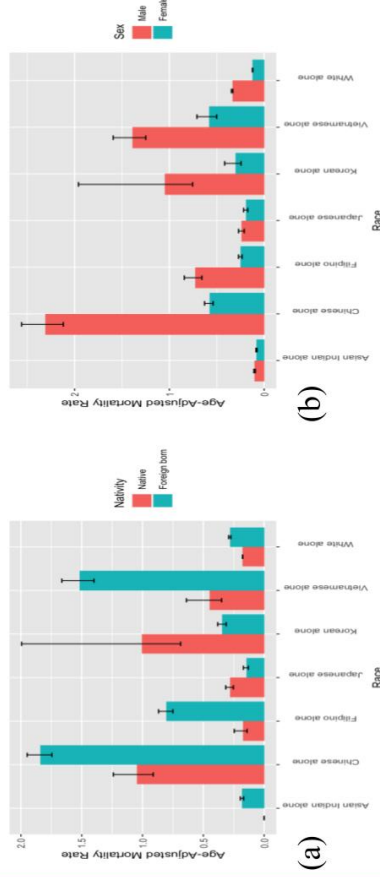


Results

Crude Mortality Counts by Race and Age



Age-Adjusted Mortality Rates by Race and (a) Nativity (b) Sex



Discussion

Comparison of AAMR: US vs Asia

Race	US AAMR (per 100,000 person-years)		Asian Country AAMR (per 100,000 person-years)	
	Male	Female	Male	Female
Asian Indian	0.103 [0.093-0.109]	0.081 [0.075-0.087]	0.5	0.2
Chinese	2.311 [2.119-2.559]	0.578 [0.538-0.629]	2.7	1.1
Filipino	0.730 [0.657-0.843]	0.250 [0.233-0.271]	3.2	1.3
Japanese	0.237 [0.210-0.270]	0.192 [0.173-0.217]	0.4	0.1
Korean	1.049 [0.755-1.959]	0.302 [0.244-0.417]	1.8	0.8
Vietnamese	1.388 [1.249-1.593]	0.579 [0.500-0.709]	7.7	3.4
Non-Hispanic White	0.336 [0.330-0.346]	0.124 [0.120-0.125]		

Table from "Epidemiology and Incidence in the Incidence and Mortality of Nasopharyngeal Cancer in Asia" (Makitieva et al., 2016)

Future Work

- Missing Data: Asian Subgroup Classification
- Asian Countries with Highest AAMR

Country	Age-Adjusted Mortality rate (per 100,000 person-years)
Indonesia	3.3
Vietnam	3.3
Singapore	2.8
Malaysia	2.5

Table from "Epidemiology and Incidence in the Incidence and Mortality of Nasopharyngeal Cancer in Asia" (Makitieva et al., 2016)

- Confounding Variables
- Socioeconomic factors in diagnosis/treatment
- National Vital Statistics System Mortality Data (Restricted)
- Surveillance, Epidemiology, and End Results (SEER)

References

