Predictors of HIV Testing among Asian American and Non-Hispanic White Americans (2006-2018)

Mitchell Han, Jonathan Lung MPH, Bin He, Miguel E.V. Rodriguez MD, Nicholas Kikuta, George Hung, Malathi Srinivasan MD, Adrian Bacong PhD, Robert Huang MD, Gloria Kim MD, Latha Palaniappan MD MS, Armaan Jamal
Stanford University School of Medicine, Center for Asian Health Research and Education, Stanford, CA, USA

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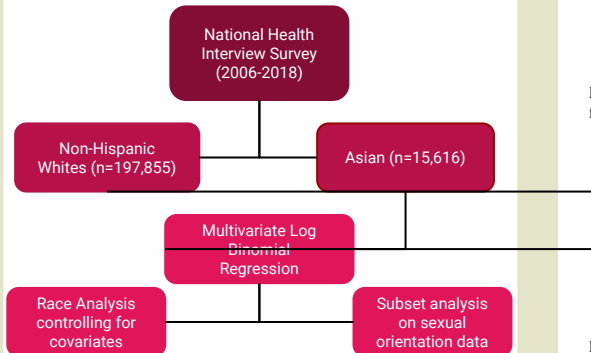Center for Asian Health Research and Education

Background

- Asian Americans living with undiagnosed HIV is estimated to be around 19.6%
- Asian Americans have similar rates of HIV infections to Non-Hispanic Whites (NHW) (CDC, 2015)
- Only few studies that study predictors of HIV testing among the Asian American populations (Lee and Zhou, 2018)
- HIV testing= early diagnosis= reduce medical cost = longer life expectancy (Lo et al., 2018)

Objective: To estimate the **association between HIV testing** and **demographic, socioeconomic and health-related factors** in both **White** and **Asian** populations

Methods

Study Design: Observational, cross-sectional study

National Health Interview Survey (2006-2018)
→ Non-Hispanic Whites (n=197,855)
→ Asian (n=15,616)
Multivariate Log Binomial Regression
Race Analysis controlling for covariates
Subset analysis on sexual orientation data
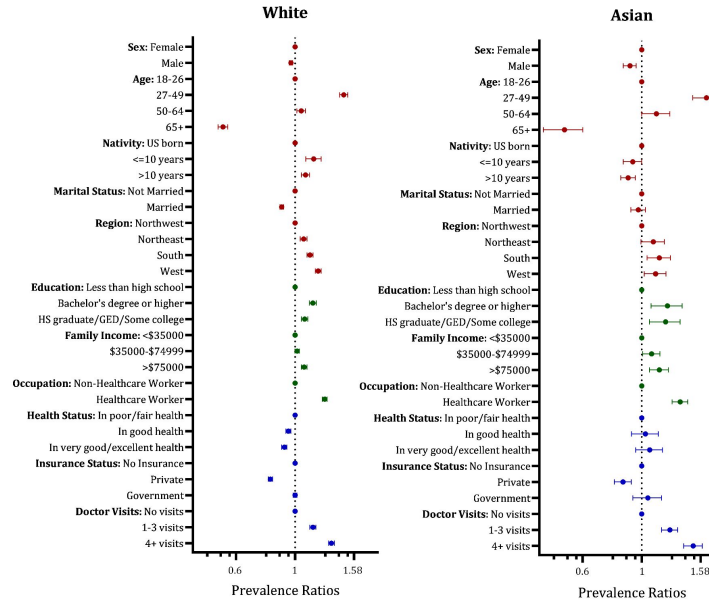
Results

Fig. 1 Adjusted factors associated with HIV testing among NHW and Asians. Colors correspond to factor type: Red (Demographic), Green (Socioeconomic), Blue (Health)
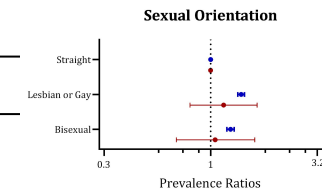

Fig. 2 Sensitivity Analysis on Sexual Orientation between Non-Hispanic Whites (blue) and Asians (red)

HIV Tested	White	Asian
No	127566 (64.5%)	10179 (65.2%)
Yes	70289 (35.5%)	5437 (34.8%)

Tab. 1 Number/Percentage of HIV Testing between Asian and NWH

Discussion

Race	Strongest Predictors of HIV Testing
White	Female, Age 27-49, **Nativity (<= 10 years)**, **Married**, **Western Region**, **Better Health Status**, Better Education, Healthcare Worker, Private Insurance, 4+ Doctors Visits, **Lesbian or Gay**
Asian	Female, Age 27-49, **Southern Region**, Better Education, Healthcare Worker, Private Insurance, 4+ Doctors Visits

Tab. 2 Strongest significant predictors of HIV testing among Whites and Asians. Boldface signifies a racial difference in that predictor.

Limitations/Next Steps

Limitations
- Sexual orientation data is limited to 2013-2018
- Low counts of Asians in respect to NHW
- Language Barrier to Survey

Next Steps
- Analysis HIV testing predictors for Asian subgroups
- Annual trends of HIV testing

References/Acknowledgement