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ASHES, Vol. 17(4) - Neighborhood influences on intent to quit smoking among Asian-American males

Some [subpopulations in the United States](#), including [Asian-American men](#) with limited English proficiency, smoke at troublingly high rates. Asian Americans are not a monolith; a [previous study](#) found that Chinese-American smokers had less desire to quit smoking than Vietnamese-American smokers. While individual-level factors like language, education, and immigration status [play a role](#) in Asian Americans' intent to quit smoking tobacco, environmental factors, such as tobacco retail density and median neighborhood household income, might be influential as well. This week, STASH reviews a cross-sectional study by [Priyanka Vyas and colleagues](#) that looked at both individual and environmental-level factors on intent to quit smoking among Chinese- and Vietnamese-American male smokers.

What was the research question?

How are individual and environmental (neighborhood) factors associated with intention to quit smoking among Chinese and Vietnamese male daily smokers?

What did the researchers do?

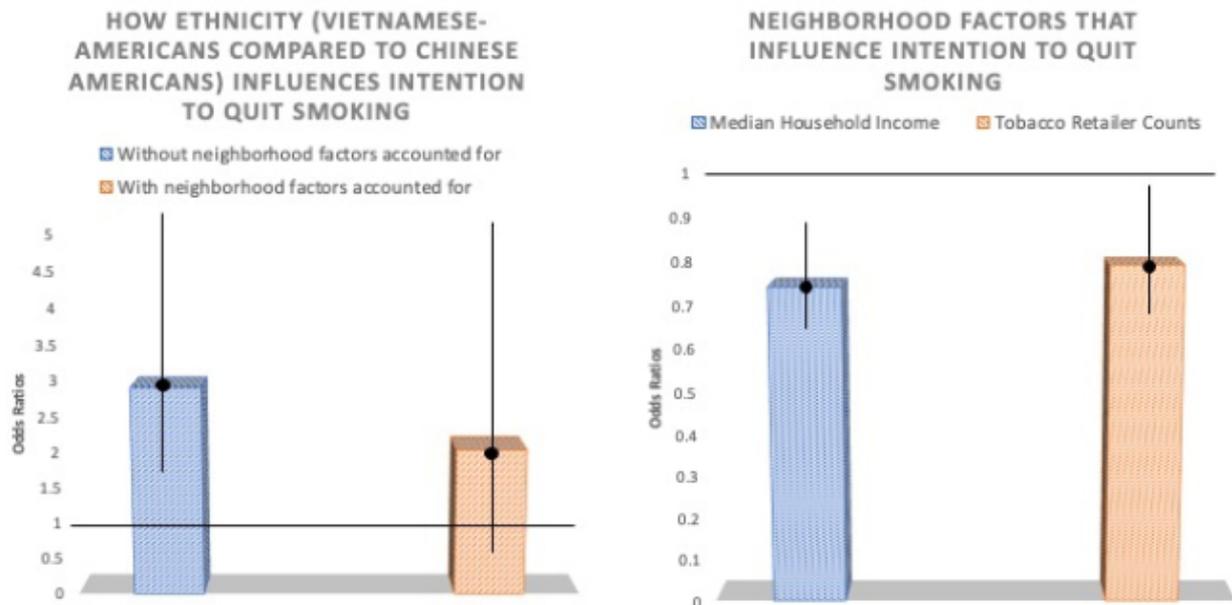
Vyas and her colleagues examined baseline data from a [smoking intervention research trial](#) of 340 Chinese and Vietnamese male daily smokers. Participants were largely recruited from two populous counties in the Greater San Francisco Bay Area. At baseline, participants were asked whether or not they intended to quit smoking in the next 30 days. In addition, participants answered questions about their sociodemographics, education, annual income, years lived in the U.S., and various smoking characteristics (e.g., nicotine dependence and intensity of daily smoking). The researchers obtained neighborhood measures by [geocoding](#) the residential addresses of the participants. They coded for neighborhood median household income, percent of Chinese or Vietnamese residents, and number of tobacco retailers.

The researchers conducted two logistic regression models to compare the effects of individual factors vs. neighborhood factors on intention to quit smoking. They reported their results in [odds ratios](#).

What did they find?

Nearly half of the participants smoked at least 10 cigarettes a day, but only 25% indicated an intention to quit within 30 days. Participants who intended to quit smoking in the next 30 days had lived longer in the U.S. When neighborhood level factors weren't accounted for, Vietnamese-American participants reported intending to quit smoking at [significantly](#) higher rates than Chinese-American participants. However, people who lived in neighborhoods with higher median household income and higher percentages of Chinese in the neighborhoods were less likely to report intention to quit. For every \$10,000 increase in median neighborhood income, and for every 5 additional tobacco retailers in the neighborhood, participants were less likely to report intention to quit smoking (see Figure). Once these and other neighborhood variables were accounted for, the association between ethnicity and intention to quit became non-significant.

Intention to Quit Smoking in 30 Days



Vyas et al. 2020

Figure. Figure on the left shows the [odds ratios](#) and [confidence intervals](#) for the individual-level factor of Vietnamese ethnicity, both with and without neighborhood factors accounted for. Figure on the right shows the odds ratios and confidence intervals for the neighborhood-level factors significantly associated with intention to quit. Confidence intervals that do not intersect with a value of 1 indicate statistically significant differences. Click image to enlarge.

Why do these findings matter?

By including a focus on environmental factors, this study shows how neighborhood characteristics play a role in reinforcing individual behavior. Notably, the study's findings suggests that the differences in intent to quit smoking between Chinese- and Vietnamese-Americans were mainly based on neighborhood factors rather than individual characteristics. These findings demonstrate the need to further understand the environmental factors that contribute to disparities within and between certain groups. Addressing tobacco-related health disparities solely by changing individual behaviors should be challenged and changed to include environmental and neighborhood factors. It is important for stakeholders to take a multi-faceted approach to holistically change peoples' smoking habits and characteristics.

Every study has limitations. What are the limitations in this study?

This study was based on a subset of participants of a larger study that focused specifically on Chinese and Vietnamese men in two California counties. While the research team was recruiting participants, they introduced the study as being about smoking cessation and other health behaviors. Participants who decided to join the study could have been especially interested in quitting, leading to a [non-representative sample](#). Additionally, the restricted recruitment means this study's results are not generalizable to the national Asian-American male population.

For more information:

[SmokeFree](#) offers tools and tips for quitting and maintaining abstinence from smoking tobacco. The [Centers for Disease Control and Prevention](#) also provides research and tips about cigarettes and how to quit. For more details about addiction, visit our [Addiction Resources](#) page.

-- Karen Amichia

What do you think? Please use the comment link below to provide feedback on this article.

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