

ASHES, Vol. 15(7) - Vape shops: Helpful or harmful?

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If you live in the United States or in a number of other countries, you might have noticed that [vape shops](#) are on the rise. In 2016, approximately [41% of e-cigarette users in the U.S.](#) purchased products from a vape shop, compared to 27% online and 30% elsewhere. Vape shops are unique from other options not only because they primarily sell vaping products, but also because employees often [encourage using e-cigarettes to quit smoking](#), a [controversial idea](#) in public health. This week, ASHES reviews a [study by Greta Hsu and colleagues](#) that investigated whether vaping product source predicts vaping frequency and successful smoking cessation.

What was the research question?

Is primary place of e-cigarette purchase related to e-cigarette use patterns and smoking cessation?

What did the researchers do?

The researchers analyzed responses of U.S. adult e-cigarette users from two online surveys distributed in 2014 (879 participants) and 2016 (743 participants), for a total of 1,622 participants.¹ Participants reported where they primarily purchased their e-cigarette products: vape shops, smoke shops,² the Internet, or retail stores (convenience stores, grocery stores, or pharmacies). Participants also reported if they smoked cigarettes and if so, whether they currently smoke frequently. For participants who reported smoking frequently, the survey asked whether they attempted to quit smoking in the previous 12 months, if they succeeded, and what aids (i.e., e-cigs and/or [FDA-approved aids](#)) they used to help quit. The researchers grouped participants by primary e-cigarette source and compared vaping and smoking behaviors using [difference in proportion tests](#).

What did they find?

Customers who purchased e-cigarette products primarily from vape stores and the Internet were [significantly](#) more likely to report using e-cigarettes daily than retail and smoke shop customers. Vape shop and Internet customers were also significantly more likely to be former smokers. Even though all customer groups

included about the same proportion of past-year daily smokers, vape shop customers were significantly more likely to have quit smoking within the past 12 months compared to retail and smoke shop customers. Vape shop customers were most likely to use e-cigarettes to help quit smoking, while retail customers were most likely to use FDA approved aids to help quit (see figure).

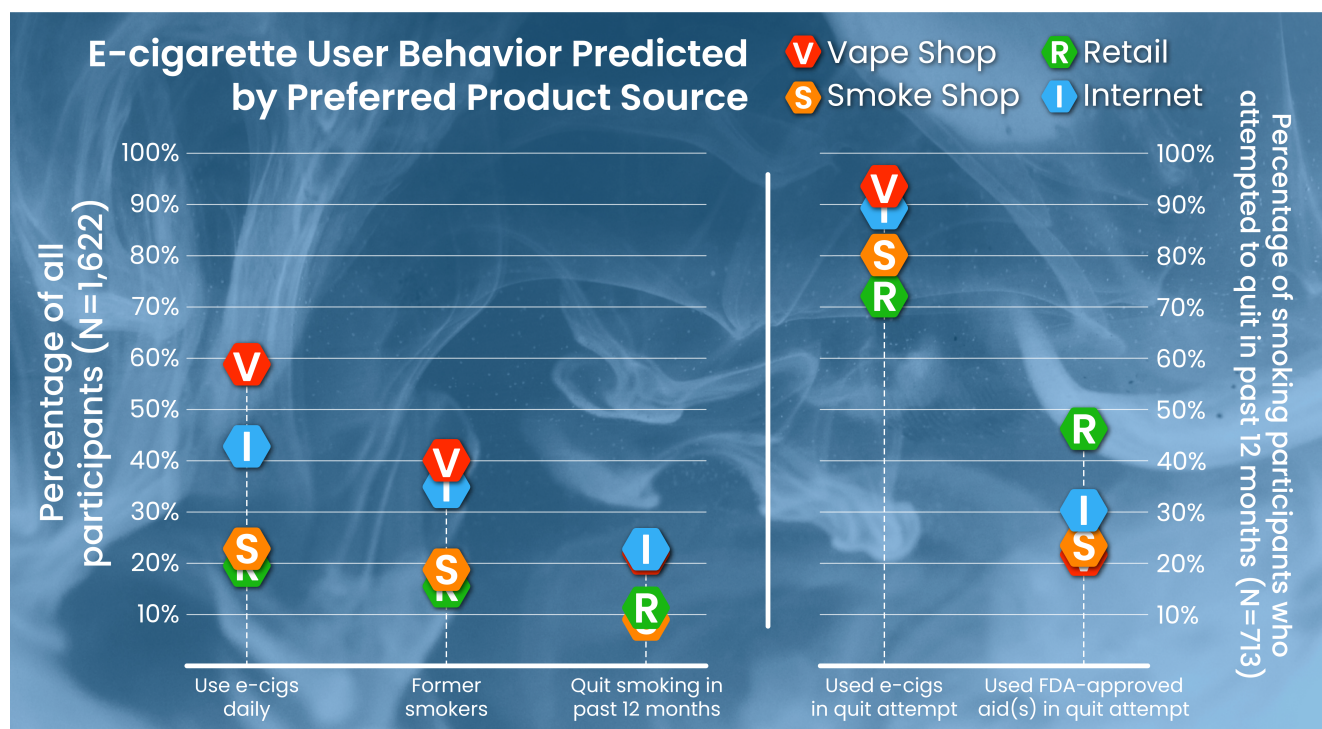


Figure. Left: The entire sample, broken down by primary e-cigarette product source and predicted vaping and smoking behavior. Right: Percentage of participants who used e-cigarettes and FDA-approved aids in a smoking quit attempt. Click image to enlarge.

Why do these findings matter?

These findings provide evidence that vaping frequency and successful smoking cessation differ by retail channel. We've [seen before](#) that vaping can help people quit smoking, sometimes with [even higher quit rates than FDA approved methods](#), and other factors could have influenced the relationship between vape shops and smoking cessation as well. Vape shop customers could be more serious about vaping, more motivated to quit smoking, and more willing to seek [guidance](#) and [social support](#) at these stores. However, vape shops and e-cigarettes might not be an ideal solution to smoking: mounting evidence shows that e-cigarettes are [harmful](#), [appealing to children](#), and can even [lead to smoking](#). As more vape shops open and their influence spreads, they must be considered when creating and enforcing e-cigarette health policies.

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

Participants [self-reported](#) their responses, which means they might have been dishonest about their habits. Participants indicated their main source of vaping products, but they may have bought products from multiple sources, meaning these results could be considered rough estimates of the market shares of different sources. Lastly, all results linking vaping, smoking, and place of purchase are [cross-sectional](#), so we can't determine which variables [cause](#) others.

For more information:

[SmokeFree](#) offers tools and tips quitting and maintaining abstinence from smoking tobacco. The [Center for Disease Control and Prevention](#) offers information, tips, and tools about e-cigarettes and how to quit. For additional tools, please visit the BASIS [Addiction Resources](#) page.

— Jamie Juviler

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

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1. Researchers combined the data from both surveys when conducting most analyses.
 2. Vape shops sell only vaping products, while smoke shops sell both vaping and smoking products. Vape shops are [more likely than smoke shops](#) to have anti-smoking views.