

## Study suggests uncertainty in e-cigarettes' usefulness for quitting smoking

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An analysis of data from a previous study of more than 1,350 smokers intending to quit after a hospitalization found that those who reported using electronic cigarettes (e-cigarettes) during the study period were less likely to have successfully quit smoking 6 months after entering the



study. The authors caution, however, that because of the study's design, it cannot support the conclusion that e-cigarettes are not useful smoking cessation aids and stress the need for further investigation of that question.

"Study participants who used e-cigarettes generally used them infrequently and not every day, a pattern that may not be an effective way to use them for quitting smoking," explains Nancy Rigotti, MD, director of the Tobacco Research and Treatment Center at Massachusetts General Hospital (MGH) and leader of the study published in *Annals of Internal Medicine*. "It does not prove that ecigarettes could not be of benefit if a smoker switches completely from tobacco cigarettes and uses them regularly, in the same way that FDAapproved <u>nicotine replacement products</u> are intended to be used."

While it is generally agreed that e-cigarettes - which deliver nicotine without many of the harmful products produced by burning tobacco reduce the health risks inherent in <u>smoking cigarettes</u>, few studies have directly investigated the usefulness of e-cigarettes in smoking cessation. The current study analyzed data from a <u>randomized clinical trial</u> that compared two approaches to support hospitalized adult smokers intending to quit after discharge - usual care, which involved recommendations regarding smoking cessation medications and support services, or the intervention, which provided participants with their choice of free FDA-approved smoking cessation medications for up to three months and automated phone calls providing advice and encouragement.

Participants in both study groups could use e-cigarettes, if they chose to, but were advised that their effectiveness as cessation aids was unknown. During follow-up calls, participants were asked if they'd used ecigarettes since discharge. More than one-quarter of patients had used ecigarettes in the three months after discharge, with more frequent use in



the usual care group than in the intervention group. But overall use was intermittent, with different participants using e-cigarettes at different times. Almost 70 percent of those who used e-cigarettes indicated doing so to help them quit smoking, and their frequency of use ranged from around once a week to daily.

At six months after discharge, participants were biochemically tested for signs of recent smoking. In both groups, participants who reported having used e-cigarettes in the three months after hospitalization were less likely than those who did not use e-cigarettes to have results indicating they were not <u>smoking</u>, an association that was stronger among those in the <u>intervention group</u>. Rigotti notes, however, that since <u>participants</u> chose whether to use e-cigarettes on their own, it could be that those who did so were already having more difficulty quitting.

"These results indicate the urgent need for randomized, controlled trials to investigate whether e-cigarettes can help smokers to quit, which have been difficult to do in the U.S. because of regulatory challenges," she says. "In the meantime, I would tell smokers who want to quit or cut down to use one of the FDA-approved <u>smoking cessation medications</u>, which are known to be safe and effective, as a first choice. If they do choose to try e-cigarettes, they should switch completely from <u>tobacco</u> cigarettes and use e-cigarettes daily, something the American Cancer Society has recently recommended."

Rigotti is a professor of Medicine at Harvard Medical School. The coauthors of the *Annals of Internal Medicine* report are Yuchiao Chang, PhD, Sara Kalkhoran, MD, MAS, Douglas Levy, PhD, Susan Regan, PhD, Jennifer Kelley, RN, MA, and Daniel Singer, MD, MGH Division of General Medicine; Hilary Tindle, MD, MPH, Vanderbilt University; and Esa Davis, MD, MPH, University of Pittsburgh Medical Center. The study was supported by National Heart, Lung and Blood Institute grant R01-HL11821.



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