Electronic cigarettes and youth: a gateway that must be shut

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A new study by Khoury and colleagues report that 10% of a representative cohort of grade 9 students in Ontario had tried electronic cigarettes (e-cigarettes). This finding is likely an underestimate of rates across Canada: a 2013 study found substantial interprovincial variation in e-cigarette initiation among youth, with rates in Quebec double those in Ontario. Khoury and colleagues found that most were motivated to try e-cigarettes by their novelty and “coolness” — rarely did youth use e-cigarettes to quit smoking, arguably their only defensible use. E-cigarette use was highest among the most vulnerable youth, as reflected by poor health, high stress or low socioeconomic status. The study also confirmed that most were not substituting e-cigarettes for cigarettes: instead, the odds of e-cigarette use were 12-fold higher in youth who also smoked cigarettes (i.e., “dual users”).

These findings add to mounting evidence associating use of e-cigarettes with tobacco use. A recent study involving US youth found that never-smokers in grades 11–12 who used e-cigarettes had sixfold higher odds of becoming cigarette smokers a year and a half later when they reached the legal age to purchase tobacco. Although this study, like previous ones, found that e-cigarette users were more likely to be identified on a validated measure as being inherently susceptible to smoking, susceptibility did not explain the association. Instead, lack of susceptibility magnified it: e-cigarette users not inherently susceptible to smoking had nearly 10-fold higher odds of becoming smokers. These results are consistent with those of prior studies involving students in grades 9–10 and together leave little doubt that e-cigarette use can function as a gateway to tobacco smoking.

The spread of e-cigarettes to youth is not merely an innocent consequence of adolescents’ natural inclination to experiment. It has been driven by aggressive marketing tactics by the industry — the same tactics that have long been used to promote tobacco to youth, including provocative ads and celebrity endorsements. Whereas Canada’s official prohibition on nicotine-containing e-cigarettes has largely kept advertisements out of traditional media here, they are rampant on Internet and social media sites, where youth can be exposed to them readily. The typical fruit and candy flavourings of e-cigarette liquids are the number one reason they entice youth and many are inherently harmful. Advertising restrictions currently in place for tobacco products must be explicitly extended to e-cigarettes. At an individual level, we all have an important role to play in engaging our youth in a conversation about the harms of e-cigarettes, lest we lose the progress against tobacco that we have worked so hard for decades to achieve.

References


Competing interests: See www.cmaj.ca/site/misc/cmaj_staff.xhtml.

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