

## ORIGINAL RESEARCH

## Patient Perspectives on Discussions of Electronic Cigarettes in Primary Care

Mark P. Doescher, MD, MSPH, Ming Wu, MD, PhD, Elizabeth Rainwater, MD, Ali S. Khan, and Dorothy A. Rhoades, MD, MPH

**Purpose:** Patient preferences regarding the role of the primary care provider (PCP) in discussing electronic cigarette (e-cigarette) use are unknown.

**Methods:** We administered a cross-sectional survey to 568 adult patients in a family medicine clinic to explore e-cigarette use, sources of information on e-cigarettes, perceived knowledge about e-cigarette health effects, views regarding PCP knowledge of e-cigarettes, interest in discussing e-cigarettes with PCPs and preferred format for e-cigarette information. We performed  $\chi^2$  testing with a 2-tailed  $P < .05$  to assess associations between e-cigarette use and these measures.

**Results:** The prevalence of e-cigarette use was 10% for recent ( $\leq 30$  days) use and 29% for nonrecent ( $> 30$  days) use. Prevalence was significantly higher among those who were younger, less educated, or smoked cigarettes, but did not vary by sex or self-reported health status. Roughly one quarter of participants believed they were knowledgeable about the health effects of e-cigarettes, secondhand smoke, and quitting cigarettes. Sources of e-cigarette information included television advertisements (56.6%), friends and family (49.9%), or e-cigarette shops (25.5%), but included physician offices much less frequently (6.0%). Although 30.2% disagreed that their PCP knew a lot about e-cigarettes, 62.0% were comfortable discussing e-cigarettes with their PCP. However, only 25% of all patients wanted their PCP to discuss e-cigarettes with them, but 62.0% of recent e-cigarette users wanted such a discussion. Most preferred a brief discussion or handout to a lengthy discussion.

**Conclusion:** PCPs were infrequent sources of information for patients regarding e-cigarette use. PCPs need evidence-based strategies to help them address e-cigarettes in primary care. (J Am Board Fam Med 2018;31:73–82.)

**Keywords:** Cross-Sectional Studies, Electronic Cigarettes, Patient Preference, Primary Health Care, Secondhand Smoke, Self Report, Tobacco Products

Electronic cigarettes (e-cigarettes), which are non-combustible, battery-operated devices that deliver aerosolized nicotine, have become increasingly

popular.<sup>1–5</sup> In 2014, 12.6% of adults in the United States reported that they had tried an e-cigarette at least once and 47.6% of current smokers had done so.<sup>1</sup> Even among adults who had never smoked cigarettes, 3.2% reported that they had ever tried an e-cigarette. This figure rose to 9.7% among never smokers ages 18 to 24 years.<sup>1</sup>

Many people who use e-cigarettes, also known as vaping, may do so to reduce their exposure to the harmful constituents of conventional tobacco or to help them quit smoking tobacco products.<sup>6–9</sup> Although some evidence indicates that e-cigarettes may be less harmful than combustible tobacco products, e-cigarettes may still cause adverse health effects.<sup>10–12</sup> E-cigarettes also typically contain nicotine, and could lead to nicotine addiction, raising the concern that they may serve as a gateway to

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From the Department of Family and Preventive Medicine, Stephenson Cancer Center, University of Oklahoma Health Sciences Center, Oklahoma City, OK (MPD); Saint Anthony Shawnee Hospital, Shawnee, OK (MW); Variety Care, Oklahoma City (ER); University of Oklahoma, Norman, OK (ASK); University of Oklahoma Health Sciences Center, Oklahoma City, OK (DAR).

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**Corresponding author:** Mark P. Doescher, MD, MSPH, 655 Research Parkway, Room 448, Oklahoma City, OK 73104 (E-mail: mdoesche@ouhsc.edu).

more damaging tobacco products among youth and young adults.<sup>13–17</sup>

As has been the case for cigarettes and other tobacco products, patient views on e-cigarettes may be influenced by marketing. The vast majority of e-cigarette manufacturers and retailers market online, and 65% of online advertisements made at least 1 health-related claim in 1 study<sup>18</sup> and 77% in another.<sup>19</sup> Among these claims, the reduction in secondhand smoke compared with combustible tobacco was most often cited, with an average of 2 claims per Web site.<sup>20</sup>

Given the emergence of widespread use of e-cigarettes and the frequency of health claims being made by the e-cigarette industry, surprisingly little is known about how patients and primary care providers (PCPs) discuss e-cigarettes during clinic visits. PCPs are in an ideal position to counsel patients about e-cigarette use, as 83% of US adults in 2013 reported having a physician office visit in the preceding 12 months and 53% of these visits were with PCPs.<sup>21</sup> Furthermore, many PCPs routinely discuss tobacco use with their patients by following the United States Preventive Services Taskforce guideline recommending that clinicians ask all adults about tobacco use, advise them to stop using tobacco, and provide behavioral interventions and approved pharmacotherapy for cessation to adults who use tobacco. However, the Taskforce also concludes that evidence currently is insufficient to recommend e-cigarettes for tobacco cessation in adults and this group has not yet made a statement on screening for e-cigarette use.<sup>22</sup> Thus, the role of PCPs in advising patients regarding the health risks or potential benefits of using e-cigarettes remains unclear at the same time that many patients are using these products and undoubtedly asking their PCPs about them.

A few studies have begun to explore how e-cigarettes are being addressed in primary care. In 1 study, 86% of PCPs reported that they screened for tobacco use regularly among adolescents, but only 14.5% of them screened for e-cigarette use.<sup>23</sup> PCPs were also much less likely to discuss e-cigarette avoidance (18%) than tobacco avoidance (78%).<sup>24</sup> One study showed that an informational and motivational group intervention resulted in a significant increase in perceived harm and reduced intention to use e-cigarettes and other tobacco products.<sup>24</sup> However, this was a group intervention that took about 40 minutes, so does not directly apply to the typical

primary care setting. A study in an Alaska Native health care setting showed that community members felt that PCPs were failing to address e-cigarettes and that the standard screening asked only about conventional tobacco products.<sup>25</sup> The same study showed that patients generally felt that use of e-cigarettes is a safer alternative than use of conventional tobacco products. On the other hand, providers interviewed in that same study felt that switching from cigarettes to e-cigarettes was merely substituting “1 negative health behavior for another” without a positive impact on health.<sup>25</sup>

Because evidence-based recommendations about how to address e-cigarettes in primary care are lacking and studies investigating patients’ preferences in counseling about use of e-cigarettes by their PCPs are quite limited, we conducted a clinic-based survey of adult primary care patients to investigate patients’ perceived knowledge about e-cigarettes, patient impressions regarding PCP knowledge about e-cigarettes and views on the role of the PCP in counseling about these products. We hypothesized that more patients than not would perceive their PCPs as having limited knowledge about e-cigarettes, and that many patients would want their PCPs to discuss e-cigarettes with them.

## Methods

### *Design and Study Population*

This study was conducted during the summer of 2016 at the Family Medicine Center of the University of Oklahoma Health Sciences Center. This clinic is a large, university-based, full-spectrum family medicine practice with 36 resident physicians, 17 supervising faculty members, a sports medicine fellowship, physician assistants, and nurse practitioners. In fiscal year 2015 the clinic recorded over 50,000 physician visits. Roughly 60% of the patients had health insurance coverage through Medicaid, 20% had coverage through Medicare, and the remainder had coverage through private coverage or no insurance coverage. Resident physicians accounted for 70% of the visits. Almost all the clinic patients speak English as their primary language. The study was approved by the University of Oklahoma Health Sciences Center Institutional Review Board.

Over a 3-month period, adult patients waiting for their clinic appointment were approached in the waiting room by a member of the study team (AK).

Efforts were made to approach all patients regardless of sex. Patients who agreed to participate were included if they were 18 years of age and spoke English. The final sample size was 568. We did not measure how many potential participants declined to complete the survey, so the overall response rate could not be determined; however, nearly all patients in the waiting rooms who were approached about the study agreed to participate. Participants did not receive payment or any other form of compensation for completing the survey.

The survey was a brief, approximately 10-minute, anonymous, self-completed instrument written at the sixth grading reading level. To ensure that all participants were aware that the survey focused on e-cigarettes and related nicotine vapor devices (as opposed to marijuana or other substances), the description of the survey that was given to all potential participants included the sentence, "This survey is about electronic cigarettes and related nicotine vapor ('vaping') devices."

### Measures

The authors searched the e-cigarette literature for previously validated questions pertinent to discussing e-cigarettes in primary care. However, no suitable questions were identified. Thus the authors created the survey and iteratively pilot tested it on 10 participants. The final version of the survey included 18 questions (Appendix) that used a Likert scale when appropriate, and included the following domains 1) E-cigarette use status categorized as: recent (use of e-cigarettes within the preceding 30 days), nonrecent (prior use of e-cigarettes, but not within the preceding 30 days), or never; 2) sociodemographic and lifestyle factors (age, sex, educational attainment, self-reported health status (excellent, very good, good, fair poor), and cigarette smoking status; 3) sources of information on e-cigarettes (television, family or friends, e-cigarette/vape shops, radio, magazines, physician offices); 4) perceived knowledge about effects of e-cigarettes on health, secondhand smoke, and quitting cigarettes; 5) perceptions regarding PCP's knowledge about e-cigarettes; 6) level of comfort or interest in having the PCP discuss e-cigarettes with them; and, 7) how such a discussion might be formatted (no discussion, brief discussion, pamphlet/handout, dedicated office visit, group discussion, other or did not respond).

### Data Analysis

To test for associations between the independent measures and e-cigarette status,  $\chi^2$  analyses were completed setting a 2-tailed cutoff for statistical significance at  $P < .05$  using SPSS software suite (v23; IBM Corp., Armonk, NY). Missing data were excluded for individual variables, and noted when this occurred.

### Results

Women comprised 72.5% of the sample, and 50.3% of the sample was aged 18 to 44 years and 49.7% aged 45 years or older. Most (93%) of the respondents had heard about e-cigarettes. Table 1 shows that 10% of respondents were recent e-cigarette users, while 29% were nonrecent users. Table 1 also reveals statistically significant differences in e-cigarette status by age ( $P < .001$ ), education ( $P = .008$ ), and cigarette-smoking status ( $P < .001$ ), but not by sex ( $P = .680$ ) or self-reported health ( $P = .539$ ). Younger participants were most likely to report recent e-cigarette use. Participants with lower levels of educational attainment were most likely to report recent or nonrecent e-cigarette use. Cigarette smoking status was strongly associated with e-cigarette use ( $P < .001$ ). Among the 28.4% of the participants classified as currently smoking cigarettes, 74.5% had tried e-cigarettes, and 21.7% reported recent use of e-cigarettes. Among the 22.0% who formerly smoked cigarettes, 36.8% had ever used e-cigarettes and 11.2% had recently used them. However, even among the 49.6% classified as never having smoked cigarettes, 15.7% were nonrecent users of e-cigarettes and 2.5% were recent users of e-cigarettes.

Table 2 shows that 27.3% of respondents agreed with the statement that they were knowledgeable about the effects of e-cigarettes on health, 30.7% endorsed that they felt knowledgeable about secondhand smoke emitted from these devices, and 27% agreed that they felt knowledgeable about effects of e-cigarettes on quitting cigarettes. No statistically significant differences were observed by e-cigarette use category for any of these measures of e-cigarette knowledge (effects on health,  $P = .335$ ; secondhand smoke,  $P = .069$ ; effect on quitting cigarettes,  $P = .33$ ).

Respondents were asked where they had heard about e-cigarettes and Figure 1 shows that advertisements on television and word of mouth from

**Table 1. Selected Demographic Characteristics by e-Cigarette Use Status**

	When Was the Last Time You Smoked an Electronic Cigarette/, Even One or Two Puffs?			Total, N (%)	P-Value
	Recent Users, N (%)	Nonrecent Users, N (%)	Never Users, N (%)		
Age, years (missing = 2)					
18 to 29	17 (30.4)	43 (26.1)	59 (17.1)	119 (21.0)	<.001
30 to 44	14 (25.0)	62 (37.6)	90 (26.1)	166 (29.3)	
45 to 64	22 (39.3)	48 (29.1)	106 (30.7)	176 (31.1)	
65+	3 (5.4)	12 (7.3)	90 (26.1)	105 (18.6)	
Sex (missing = 5)					
Male	16 (28.6)	49 (29.9)	90 (26.2)	155 (27.5)	.68
Female	40 (71.4)	115 (70.1)	253 (73.8)	408 (72.5)	
Educational attainment (missing = 2)					
Grade 11 or Less	9 (16.1)	17 (10.2)	44 (12.8)	70 (12.4)	.008
Grade 12 or GED	23 (41.1)	66 (39.8)	91 (26.5)	180 (31.8)	
Some college	18 (32.1)	53 (31.9)	115 (33.4)	186 (32.9)	
College grad +	6 (10.7)	30 (18.1)	94 (27.3)	130 (23.0)	
Self-reported general health (missing = 0)					
Excellent	5 (8.8)	15 (9.1)	39 (11.3)	59 (10.4)	.539
Very good	12 (21.1)	27 (16.4)	75 (21.7)	114 (20.1)	
Good	20 (35.1)	64 (38.8)	134 (38.7)	218 (38.4)	
Fair	14 (24.6)	48 (29.1)	82 (23.7)	144 (25.4)	
Poor	6 (10.5)	11 (6.7)	16 (4.6)	33 (5.8)	
Cigarette smoking (missing = 4)					
Current	35 (62.5)	88 (53.7)	38 (11.0)	161 (28.4)	<.001
Former	14 (25.0)	32 (19.5)	79 (22.8)	125 (22.0)	
Never	7 (12.5)	44 (26.8)	230 (66.3)	281 (49.6)	

friends and family represented the 2 largest sources of this information (56.6% and 49.9%, respectively). Respondents also obtained information about these devices from e-cigarette (vape) shops fairly often (25.5%). Fewer respondents reported hearing about e-cigarettes from radio or print advertisements (18% and 16%, respectively). Only 6% of respondents obtained information from a physician's office.

Table 3 presents participants' perspectives on the role of the PCP in discussing e-cigarettes. Roughly one third (30.2%) of the respondents agreed with the statement that their PCP knew a lot about e-cigarettes, yet nearly two thirds (62.0%) agreed with the statement that they felt comfortable talking with their PCP about e-cigarettes. Roughly one quarter (24.7%) wanted their PCP to talk with them about these products, although the percentage of patients who wanted their PCP to talk with them about e-cigarettes increased to nearly two thirds (62.0%) among recent e-cigarette users ( $P < .001$ ). Respondents were additionally

asked about their preferred mode of receiving e-cigarette information (data not shown). For those who wanted information from PCP, a brief discussion and pamphlets/handouts were the preferred formats. Very few respondents (< 5%) wanted a dedicated clinic visit to discuss e-cigarettes, either in a private or group visit setting.

## Discussion

Despite the rising popularity of e-cigarettes, research on how the primary care setting could provide information to patients regarding e-cigarettes has been strikingly limited. More than one third of our primary care respondents had previously tried or were currently using e-cigarettes, consistent with the rising use of e-cigarettes use in the US.<sup>1-5,26</sup> However, 18% of the e-cigarette users had never smoked cigarettes, suggesting that some adults may be trying e-cigarettes for reasons other than to stop or reduce smoking.

Despite the fact that the effects of e-cigarettes on health and smoking cessation are not yet well

**Table 2. Self-Rated Knowledge Regarding e-Cigarette Effects by Vaping Status**

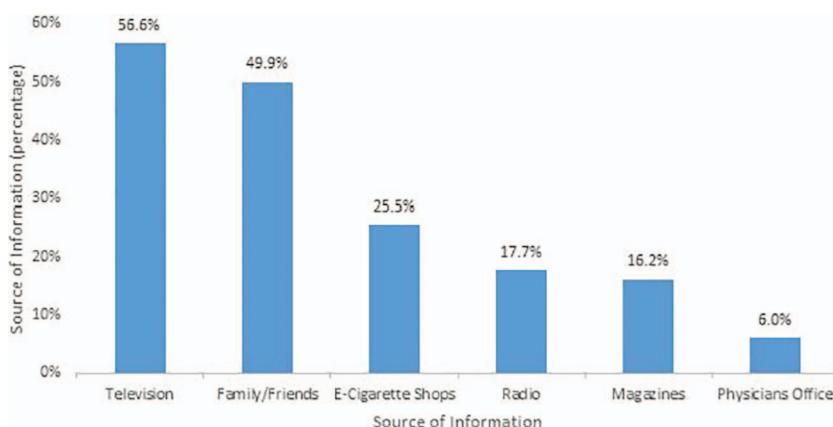
	When Was the Last Time You Smoked an Electronic Cigarette, Even One or Two Puffs?			Total
	Recent Users, N (%)	Nonrecent Users, N (%)	Never Users, N (%)	
	57 (10.0)	165 (29.0)	346 (60.9)	568 (100)
I am knowledgeable about the effect of electronic cigarettes on users' health (missing = 40)				
Strongly or somewhat agree	15 (29.4)	52 (32.1)	77 (24.4)	144 (27.3)
Neither agree nor disagree	14 (27.5)	40 (24.7)	75 (23.8.)	129 (24.4)
Somewhat or strongly disagree	22 (43.1)	70 (43.2)	163 (51.7)	255 (48.3)
I am knowledgeable about secondhand smoke from electronic cigarettes (missing = 40)				
Strongly or somewhat agree	18 (35.3)	61 (37.4)	83 (26.4)	162 (30.7)
Neither agree nor disagree	14 (27.4)	35 (21.5)	70 (22.3)	119 (22.5)
Somewhat or strongly disagree	19 (37.3)	67 (41.1)	161 (51.3)	247 (46.8)
I am knowledgeable about the effects of electronic cigarettes on quitting cigarettes (missing = 56)				
Strongly or somewhat agree	16 (31.4)	48 (30.2)	74 (24.5)	138 (27.0)
Neither agree nor disagree	8 (15.7)	40 (25.2)	82 (27.2)	130 (25.3)
Somewhat or strongly disagree	27 (52.9)	71 (44.6)	146 (48.3)	244 (47.7)

understood<sup>27</sup>, roughly one quarter of the participants agreed that they were knowledgeable about the health effects of e-cigarettes, and similar percentages agreed that they were knowledgeable about secondhand smoke from e-cigarettes and their effects on quitting cigarettes. This is consistent with findings from another study in which roughly one quarter to one half of e-cigarette users reported the belief that e-cigarettes have no health risks.<sup>26</sup> Marketing contributes to perceived knowledge regarding the health and safety of e-ciga-

rettes<sup>28</sup>, and in our sample, participants heard about e-cigarettes from the media, family or friends, and e-cigarette (vape) shops, but very few heard about them from physician offices, which is consistent with other research.<sup>29</sup> These findings underscore the need for PCPs to be able to provide patients with accurate information on these products rather than relying on potentially biased and profit-driven sources of information.

Despite the lack of information on e-cigarettes obtained by patients from physicians, one fourth of

**Figure 1. Patients' reported sources of information about e-cigarettes in 2016 (N = 532).**



**Table 3. Perceived Role of Primary Care Provider in Discussing e-Cigarettes by Vaping Status**

	When Was the Last Time you Smoked an e-Cigarette, Even One or Two Puffs?			Total, N (%)	P-Value
	Recent Users, N (%)	Nonrecent Users, N (%)	Never Users, N (%)		
My primary care provider knows a lot about electronic cigarettes (missing = 71)					
strongly or somewhat disagree	8 (16.3)	22 (14.3)	38 (12.9)	68 (13.7)	.905
neither disagree nor agree	27 (55.1)	89 (57.8)	163 (55.5)	279 (56.1)	
somewhat or strongly agree	14 (28.6)	43 (27.9)	93 (31.6)	150 (30.2)	
I am comfortable discussing electronic cigs with my primary care provider (missing = 49)					
strongly or somewhat disagree	4 (7.8)	28 (17.5)	49 (15.9)	81 (15.6)	.161
neither disagree nor agree	8 (15.7)	32 (20.0)	76 (24.7)	116 (22.4)	
somewhat or strongly agree	39 (76.5)	100 (62.5)	183 (59.4)	322 (62.0)	
Would you want your PCP to discuss cigarettes electronic with you during your clinic visits? (missing = 47)					
Yes	31 (62.0)	50 (30.9)	53 (16.1)	134 (24.7)	<.001
No	19 (38.0)	112 (69.1)	276 (83.9)	407 (75.3)	

PCP, primary care provider.

all participants would want PCPs to discuss e-cigarettes with them, a figure that rises to nearly two thirds of recent e-cigarette users. Yet less than one third of respondents agreed with the statement that their PCP knows a lot about e-cigarettes. The few reports on e-cigarette counseling by PCPs indicate that when counseling occurs, it tends to be in the context of recommended e-cigarettes as a cigarette cessation aid<sup>29-31</sup>, despite the fact that little evidence exists that e-cigarettes are effective in smoking cessation<sup>7,8</sup> and may even be associated with fewer quit attempts in “real-world” clinical settings.<sup>32</sup> It seems inevitable that PCPs will increasingly discuss e-cigarettes with patients, so efforts to better characterize the possible role of e-cigarettes on smoking behaviors, such as cigarette cessation are needed, as is research to help provide PCPs with evidence-based information on these products. However, given the uncertainty about e-cigarette benefits versus harms, e-cigarette counseling should perhaps be predominately educational, at least for now. The counseling could explain that currently there is very little evidence-based information regarding the relative benefits versus harms of e-cigarettes regarding their effectiveness as smoking cessation aids or their role in serving as a gateway to more harmful tobacco products. Respondents who were interested in hearing about e-cigarettes strongly preferred brief discussion or pamphlets/handouts to dedicated office visits or group

discussions. If used for e-cigarettes, the approach of screening patients and providing brief counseling would align well with a variety of evidence-based, health behavior interventions delivered in the primary care setting, including screening for depression<sup>33</sup>, alcohol misuse<sup>34</sup>, and smoking/tobacco use.<sup>35</sup> For those with positive screens for e-cigarette use, brief conversations in the primary care setting or referral for specialized services could lead to effective behavior change, as has been demonstrated for a variety of health behaviors.

One limitation of the study is convenience sampling resulting in potential selection bias. To mitigate this issue, we attempted to recruit all patients meeting eligibility criteria who were present on the days in which recruitment occurred, most of whom agreed to participate. The age and sex distribution of the final sample reflects that of our clinic, which has high numbers of younger women with Medicaid insurance coverage. To help maximize survey participation and completion, we opted to keep the survey as brief as possible, so we did not include questions on several factors that might be related to patient perceptions regarding e-cigarettes, such as income, race and ethnicity, health literacy, past tobacco cessation attempts, use of e-cigarettes for tobacco cessation, length of time having been seen at the clinic, duration of relationship with PCP, etc. Our sampling frame included all adults being seen for primary care in our setting regardless of their

use of e-cigarettes or other tobacco/nicotine products. Additional research would be needed to gain an understanding of e-cigarette use among adolescents and to identify interventions for addressing e-cigarette use in this segment of the population. Additional research on the subset of patients who currently use e-cigarettes would be needed to explore the underlying reasons why individuals use these products and whether these reasons differ for those who additionally use other tobacco/nicotine products compared with those who use e-cigarettes exclusively. Also, we did not have sufficient sample size in this preliminary research to be able to perform detailed subgroup analysis by e-cigarette use category. Future research would be needed to explore patients' perception about the role of PCPs in e-cigarette counseling among specific groups of e-cigarette users. Some participants did not complete the entire survey because they were called in from the waiting room where the survey was being administered to their examination room before completing the survey. This explains the progressive decline in sample size presented in each table. Finally, the Midwest and South, including Oklahoma, have a high prevalence of e-cigarette use<sup>3</sup>, so the prevalence of e-cigarette uptake in our setting may not apply in other locations, although the upward trend in e-cigarette use nationally suggests that other locations in the United States may soon resemble this part of the country. This study did not collect information on adolescents.

This study has identified the high prevalence of e-cigarette use in a primary care setting and suggests the need for PCPs to assess for e-cigarette use and provide patients with accurate information about e-cigarettes. Given the increasing prevalence of e-cigarette use, we suggest that an approach in primary care that routinely screens for e-cigarette use and provides brief counseling to those who vape may be reasonable, although further research in this area is needed. It might also be reasonable to screen for those who intend to use e-cigarettes, including current smokers. Our findings suggest that patients may be receptive to this approach, which is consonant with what is done for cigarette smoking. However, the content and format of e-cigarette counseling need to be determined. Clearly, the discipline of primary care would benefit from a

concerted effort to develop, test, and implement evidence-based e-cigarette interventions.

To see this article online, please go to: <http://jabfm.org/content/31/1/73.full>.

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## Appendix

Today's Date: \_ / \_ / \_

ID# \_\_\_\_\_ (Office use only)

Below are a few questions aimed at better understanding what you, a patient in our clinic, know about e-cigarettes/vaping, as well as your views on the role your PCP plays in furthering that knowledge base. Please fill out all the questions on this survey to the best of your ability.

**1. How old are you?**

- 18 to 29
- 30 to 44
- 45 to 64
- 65+

**2. What is your sex?**

- Male
- Female

**3. Which of the following best describes your education level?**

- Grade 11 or less (elementary, middle or high school)
- Grade 12 or GED
- Some college
- College graduate/post-graduate degree

**4. What would you say is your general health?**

- Excellent
- Very good
- Good
- Fair
- Poor

**5. Have you smoked at least 100 cigarettes in your entire life?**

- Yes
- No

**6. How often do you currently smoke cigarettes?**

- Every day
- Some days
- Not at all
- 

**7. Have you heard about e-cigarettes or vaping?**

- Yes
- No

**8. Have you ever used an e-cigarette or vaped even one or two times?**

- Yes
- No

**9. When was the last time you smoked an e-cigarette/vaped, even one or two puffs?**

- I have never used an e-cigarette, not even one or two puffs
- Earlier today
- Not today but sometime during the past 7 days
- Not during the past 7 days but sometime during the past 30 days
- Not during the past 30 days but sometime during the past year
- 1 or more years ago

**10. Where have you obtained the information you have on e-cigarettes/vaping (check all that apply)?**

- Advertisements on TV
- Advertisements in magazines
- Radio
- Friends/Family
- Vape/E-cigarette shops
- Physician's office
- Other (please specify): \_\_\_\_\_

**SURVEY CONTINUES ON NEXT PAGE**

Today's Date: \_ / \_ / \_

ID# \_\_\_\_\_ (Office use only)

(MARK ONE BOX IN EACH ROW)	Strongly disagree	Somewhat disagree	Neither disagree nor agree	Somewhat agree	Strongly agree
11. I am knowledgeable about the effects of e-cigarettes/vaping on users' health.					
12. I am knowledgeable about secondhand smoke from e-cigarettes/vaping.					
13. I am knowledgeable about the effects of e-cigarettes/vaping on quitting cigarettes.					
14. I am comfortable discussing e-cigarettes/vaping with my friends/family.					
15. I am comfortable discussing e-cigarettes/vaping with my primary care provider.					
16. My primary care provider knows a lot about e-cigarettes.					

17. Would you want your primary care provider to discuss e-cigarettes/vaping with you during your clinic visits?

- Yes
- No

18. How would you prefer that your primary care provider discuss e-cigarettes/vaping with you?

- I would not want my primary care provider to discuss e-cigarettes/vaping with me
- Pamphlet/Handout
- Brief discussion (1-3 minutes) during office visit
- Dedicated office visit
- Group discussion with other interested parties
- Other (please specify): \_\_\_\_\_

19. Comments:

**THIS IS THE END OF THE SURVEY – THANK YOU!**