



Document details

< Back to results | 1 of 1

Export Download Print E-mail Save to PDF Add to List More... >

Full Text

View at Publisher

Asia-Pacific Journal of Public Health
Volume 31, Issue 7_suppl, 1 October 2019, Pages 95-215

The Prevalence of E-Cigarette Use Among Adults in Malaysia (Article)

Ab Rahman, J.^a, Mohd Yusoff, M.F.^b, Nik Mohamed, M.H.^a, Mahadir Naidu, B.^b, Lim, K.H.^c, Tee, G.H.^b, Mohamad, M.S.^b, Kartiwi, M.^a, Draman, S.^a, Ab Rahman, N.S.^a, Aris, T.^b

^aInternational Islamic University Malaysia, Kuantan, Malaysia

^bInstitute for Public Health, Ministry of Health, Kuala Lumpur, Malaysia

^cInstitute for Medical Research, Ministry of Health, Kuala Lumpur, Malaysia

Abstract

View references (26)

Electronic cigarettes (e-cigarettes) are a new method for the consumption of nicotine. A nationwide survey among 4288 Malaysian adults was conducted in 2016 to measure the prevalence and to describe the population characteristics of e-cigarette users. A complex sampling design was used, and data were collected using a face-to-face questionnaire. The overall prevalence of current, ever, former, and dual users of e-cigarettes in Malaysia were 3.2% (95% confidence interval [CI] = 2.5-4.1), 11.9% (95% CI = 10.5-13.5), 8.6% (95% CI = 7.5-9.8), and 2.3% (95% CI = 1.8-3.1), respectively. The prevalence of all type of e-cigarette use was higher in urban than in rural areas. Current e-cigarette users were likely to be younger, males, and with higher education level. Among current e-cigarette users, 74% (95% CI = 64-82) also smoked conventional cigarettes (dual user). E-cigarette use is prevalent in Malaysia. It is common among younger adults, males, and cigarette smokers. © 2019 APJPH.

SciVal Topic Prominence ⓘ

Topic: Tobacco Products | Nicotine | Cigarette e-cigarette

Prominence percentile: 99.880 ⓘ

Author keywords

complex sampling electronic cigarette Malaysia population survey

Funding details

Funding sponsor	Funding number	Acronym
Universiti Sains Malaysia		
Ministry of Health		MOH
Universiti Teknologi Malaysia	NIH/IPH/16-002	

Funding text

Metrics ⓘ View all metrics >

2 Citations in Scopus



PlumX Metrics

Usage, Captures, Mentions, Social Media and Citations beyond Scopus.

Cited by 2 documents

The Emergence of New Nicotine Products in Malaysia

Gartner, C. , Yusoff, H.M. (2019) *Asia-Pacific Journal of Public Health*

Prevalence and Factors Associated With Attempts to Quit and Smoking Cessation in Malaysia

Lim, K.H. , Heng, P.P. , Nik Mohamed, M.H. (2019) *Asia-Pacific Journal of Public Health*

View all 2 citing documents

Inform me when this document is cited in Scopus:

Set citation alert >

Set citation feed >

Related documents

Electronic cigarette use in Greece: An analysis of a representative population sample in Attica prefecture

Farsalinos, K.E. , Siakas, G. , Poulas, K. (2018) *Harm Reduction Journal*

Prevalence of e-cigarette use from a nationally representative sample in New Zealand

We would like to thank the Government of Malaysia, in particular, the Ministry of Health Malaysia and National Institute of Health, for the provision of a research grant. We also would like to thank the Director General of the Ministry of Health for the permission to publish this article. Our special thanks also goes to all the Zone Coordinators from Universiti Sains Malaysia, Universiti Malaysia Sabah, Universiti Malaysia Sarawak, and Universiti Teknologi Malaysia for coordinating the data collection process. The author(s) disclosed receipt of the following financial support for the research, authorship, and/or publication of this article: The grant for this project was awarded by the National Institute of Health, Ministry of Health Malaysia (NIH/IPH/16-002).

Oakly, A. , Edwards, R. , Martin, G.

(2019) *Addictive Behaviors*

Electronic cigarette use among Korean adults

Lee, J.A. , Kim, S.H. , Cho, H.-J. (2016) *International Journal of Public Health*

View all related documents based on references

Find more related documents in Scopus based on:

Authors > Keywords >

ISSN: 10105395

Source Type: Journal

Original language: English

DOI: 10.1177/1010539519834735

PubMed ID: 30880403

Document Type: Article

Publisher: SAGE Publications Inc.

References (26)

View in search results format >

All Export Print E-mail Save to PDF Create bibliography

- 1 Lee, S., Grana, R.A., Glantz, S.A.
Electronic cigarette use among Korean adolescents: A cross-sectional study of market penetration, dual use, and relationship to quit attempts and former smoking

(2014) *Journal of Adolescent Health*, 54 (6), pp. 684-690. Cited 167 times.

www.elsevier.com/locate/jadohea

doi: 10.1016/j.jadohealth.2013.11.003

[View at Publisher](#)

- 2 Yamin, C.K., Bitton, A., Bates, D.W.
E-cigarettes: A rapidly growing internet phenomenon

(2010) *Annals of Internal Medicine*, 153 (9), pp. 607-609. Cited 131 times.

<http://www.annals.org/content/153/9/607.full.pdf+html>

doi: 10.7326/0003-4819-153-9-201011020-00011

[View at Publisher](#)

- 3 McMillen, R.C., Gottlieb, M.A., Whitmore Shaefer, R.M., Winickoff, J.P., Klein, J.D.
Trends in electronic cigarette use among U.S. adults: Use is increasing in both smokers and nonsmokers

(2015) *Nicotine and Tobacco Research*, 17 (10), pp. 1195-1202. Cited 268 times.

<http://ntr.oxfordjournals.org/>

doi: 10.1093/ntr/ntu213

[View at Publisher](#)

- 4 Li, J., Newcombe, R., Walton, D.
The prevalence, correlates and reasons for using electronic cigarettes among New Zealand adults

(2015) *Addictive Behaviors*, 45, pp. 245-251. Cited 42 times.

www.elsevier.com/locate/addictbeh

doi: 10.1016/j.addbeh.2015.02.006

[View at Publisher](#)

- 5 Dockrell, M., Morrison, R., Bauld, L., McNeill, A.
E-cigarettes: Prevalence and attitudes in great britain (Open Access)
(2013) *Nicotine and Tobacco Research*, 15 (10), pp. 1737-1744. Cited 189 times.
doi: 10.1093/ntr/ntt057
View at Publisher
-
- 6 *Adult smoking habits in the UK: 2017*. Cited 7 times.
Accessed February 28, 2018
<https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/healthandlifeexpectancies/bulletins/adultsmokinghabitsingreatbritain/2017>
-
- 7 Wilson, F.A., Wang, Y.
Recent Findings on the Prevalence of E-Cigarette Use Among Adults in the U.S.
(2017) *American Journal of Preventive Medicine*, 52 (3), pp. 385-390. Cited 24 times.
www.elsevier.com/locate/amepre
doi: 10.1016/j.amepre.2016.10.029
View at Publisher
-
- 8 Palipudi, K.M., Mbulo, L., Morton, J., Mbulo, L., Bunnell, R., Blutcher-Nelson, G., Kosen, S., (...), Asma, S.
Awareness and current use of electronic cigarettes in Indonesia, Malaysia, Qatar, and Greece: Findings from 2011-2013 global adult tobacco surveys
(2016) *Nicotine and Tobacco Research*, 18 (4), pp. 501-507. Cited 25 times.
<http://ntr.oxfordjournals.org/>
doi: 10.1093/ntr/ntv081
View at Publisher
-
- 9 Gravely, S., Fong, G.T., Cummings, K.M., Yan, M., Quah, A.C., Borland, R., Yong, H.-H., (...), Hummel, K.
Awareness, trial, and current use of electronic cigarettes in 10 countries: Findings from the ITC project (Open Access)
(2014) *International journal of environmental research and public health*, 11 (11), pp. 11691-11704. Cited 85 times.
doi: 10.3390/ijerph111111691
View at Publisher
-
- 10 Cahn, Z., Siegel, M.
Electronic cigarettes as a harm reduction strategy for tobacco control: A step forward or a repeat of past mistakes? (Open Access)
(2011) *Journal of Public Health Policy*, 32 (1), pp. 16-31. Cited 246 times.
doi: 10.1057/jphp.2010.41
View at Publisher
-
- 11 Callahan-Lyon, P.
Electronic cigarettes: Human health effects (Open Access)
(2014) *Tobacco Control*, 23 (SUPPL. 2), pp. ii36-ii40. Cited 217 times.
http://tobaccocontrol.bmj.com/content/23/suppl_2/ii36.full.pdf+html
doi: 10.1136/tobaccocontrol-2013-051470
View at Publisher

- 12 Caponnetto, P., Campagna, D., Cibella, F., Morjaria, J.B., Caruso, M., Russo, C., Polosa, R.
Efficiency and Safety of an eElectronic cigarette (ECLAT) as Tobacco Cigarettes Substitute: A Prospective 12-Month Randomized Control Design Study ([Open Access](#))
- (2013) *PLoS ONE*, 8 (6), art. no. e66317. Cited 457 times.
<http://www.plosone.org/article/abstract?uri=info%3Adoi%2F10.1371%2Fjournal.pone.0066317&representation=PDF>
doi: 10.1371/journal.pone.0066317
- [View at Publisher](#)
-
- 13 Hajek, P., Etter, J.-F., Benowitz, N., Eissenberg, T., McRobbie, H.
Electronic cigarettes: Review of use, content, safety, effects on smokers and potential for harm and benefit
- (2014) *Addiction*, 109 (11), pp. 1801-1810. Cited 300 times.
doi: 10.1111/add.12659
- [View at Publisher](#)
-
- 14 *Glossary: Household*
Accessed October 11, 2018
https://www.dosm.gov.my/v1/index.php?r=column/cglossary2&menu_id=eWd2VFdIZ2xpdzBmT2Y0a0pweDcwQT09&keyword=TG5oZlhpRWWhEaFM5VWdVemt1dkxrZz09&release=1
-
- 15 Schoenborn, C.A., Gindi, R.M.
Electronic Cigarette Use Among Adults: United States, 2014
- (2015) *NCHS data brief*, (217), pp. 1-8. Cited 173 times.
-
- 16 (2009) *Global Adult Tobacco Survey (GATS): indicator guidelines: definition and syntax*. Cited 12 times.
June, Accessed February 28, 2018, Published
https://www.who.int/tobacco/surveillance/en_tfi_gats_indicator_guidelines.pdf
-
- 17 Asma, S., Mackay, J., Song, S.Y.
(2015) *The GATS Atlas: Global Adult Tobacco Survey*. Cited 48 times.
Atlanta, GA, CDC Foundation
-
- 18 (2012) *Report of the Global Adult Tobacco Survey (GATS) Malaysia, 2011*. Cited 29 times.
Kuala Lumpur, Malaysia, Institute for Public Health, Ministry of Health Malaysia
-
- 19 (2015) *National Health and Morbidity Survey 2015—Report on Smoking Status Among Malaysian Adults*. Cited 127 times.
Kuala Lumpur, Malaysia
-
- 20 Pearson, J.L., Hitchman, S.C., Brose, L.S., Bauld, L., Glasser, A.M., Villanti, A.C., McNeill, A., (...), Cohen, J.E.
Recommended core items to assess e-cigarette use in population-based surveys
- (2018) *Tobacco control*, 27 (3), pp. 341-346. Cited 23 times.
doi: 10.1136/tobaccocontrol-2016-053541
- [View at Publisher](#)
-

- 21 Farsalinos, K.E., Poulas, K., Voudris, V., Le Houezec, J.
Electronic cigarette use in the European Union: analysis of a representative sample of 27 460 Europeans from 28 countries
(2016) *Addiction (Abingdon, England)*, 111 (11), pp. 2032-2040. Cited 90 times.
[http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1360-0443](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1360-0443)
doi: 10.1111/add.13506
[View at Publisher](#)
-
- 22 Brown, J., West, R., Beard, E., Michie, S., Shahab, L., McNeill, A.
Prevalence and characteristics of e-cigarette users in Great Britain: Findings from a general population survey of smokers (Open Access)
(2014) *Addictive Behaviors*, 39 (6), pp. 1120-1125. Cited 130 times.
www.elsevier.com/locate/addictbeh
doi: 10.1016/j.addbeh.2014.03.009
[View at Publisher](#)
-
- 23 Zhuang, Y.-L., Cummins, S.E., Sun, J.Y., Zhu, S.-H.
Long-term E-cigarette use and smoking cessation: A longitudinal study with US population (Open Access)
(2016) *Tobacco Control*, 25, pp. i90-i95. Cited 57 times.
<http://tobaccocontrol.bmj.com/content/by/year>
doi: 10.1136/tobaccocontrol-2016-053096
[View at Publisher](#)
-
- 24 Levy, D.T., Yuan, Z., Luo, Y., Abrams, D.B.
The relationship of e-cigarette use to cigarette quit attempts and cessation: Insights from a large, nationally representative U.S. Survey
(2018) *Nicotine and Tobacco Research*, 20 (8), pp. 931-939. Cited 29 times.
<http://ntr.oxfordjournals.org/>
doi: 10.1093/ntr/ntx166
[View at Publisher](#)
-
- 25 Levy, D.T., Yuan, Z., Li, Y.
The prevalence and characteristics of E-cigarette users in the U.S (Open Access)
(2017) *International Journal of Environmental Research and Public Health*, 14 (10), art. no. 1200. Cited 37 times.
<http://www.mdpi.com/1660-4601/14/10/1200/pdf>
doi: 10.3390/ijerph14101200
[View at Publisher](#)
-
- 26 Amato, M.S., Boyle, R.G., Levy, D.
How to define e-cigarette prevalence? Finding clues in the use frequency distribution (Open Access)
(2016) *Tobacco Control*, 25 (E1), pp. e24-e29. Cited 75 times.
<http://tobaccocontrol.bmj.com/content/25/e1/e24.full.pdf>
doi: 10.1136/tobaccocontrol-2015-052236
[View at Publisher](#)

About Scopus

[What is Scopus](#)
[Content coverage](#)
[Scopus blog](#)
[Scopus API](#)
[Privacy matters](#)

Language

[日本語に切り替える](#)
[切换到简体中文](#)
[切换到繁體中文](#)
[Русский язык](#)

Customer Service

[Help](#)
[Contact us](#)

ELSEVIER

[Terms and conditions ↗](#) [Privacy policy ↗](#)

Copyright © Elsevier B.V. ↗. All rights reserved. Scopus® is a registered trademark of Elsevier B.V.

We use cookies to help provide and enhance our service and tailor content. By continuing, you agree to the use of cookies.

 RELX