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

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Abstract

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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.

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Topic: Tobacco Products | Nicotine | Cigarette e-cigarette

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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*

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- 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

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-

- 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
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-
- 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
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-
- 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
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-
- 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>
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