

Tobacco in Australia

Facts & Issues

Relevant news and research

3.34 Public perceptions of tobacco as a drug, and knowledge and beliefs about the health consequences of smoking

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Research:

Chambers, J, Keyhani, S, Ling, PM, Hoggatt, KJ, Hasin, D, Nguyen, N et al. (2023). Perceptions of Safety of Daily Cannabis vs Tobacco Smoking and Secondhand Smoke Exposure, 2017-2021. *JAMA Netw Open*, 6(8), e2328691. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37566411>

Hackworth, EE, Ntansah, CA, Henderson, KC, Pei, D, Reynolds, RM, Duong, HT et al (2023). "I Crave a Blunt, I Don't Crave a Cigarillo": A Focus Group Study on Perceptions of Nicotine and Addiction among US Adults Who Currently Smoke Little Cigars or Cigarillos. *Int J Environ Res Public Health*, 20(6). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36981995>

Venrick, SJ, Kelley, DE, O'Brien, E, Margolis, KA, Navarro, MA, Alexander, JP, & O'Donnell, AN. (2023). U.S. digital tobacco marketing and youth: A narrative review. *Prev Med Rep*, 31, 102094. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36813248>

Nivethitha, R, & Leelavathi, L. (2022). Awareness on ill effects of tobacco usage among tobacco users. *J Adv Pharm Technol Res*, 13(Suppl 1), S217-S222. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36643121>

Peterson, EB, Pitzer, L, & Zhao, X. (2022). Disparities in Nicotine Addictiveness and Cancer Harm Perceptions among U.S. Adults: A Trend Analysis Using the Health Information National Trends Survey (HINTS). *Nicotine Tob Res*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36271895>

Vedoy, TF, & Lund, KE. (2022). Beliefs about harms of cigarette smoking among Norwegian adults born from 1899 to 1969. Do variations across education, smoking status and sex mirror the decline in smoking? *PLoS One*, 17(8), e0271647. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35921379>

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Szymanski, J, Ostrowska, A, Pinkas, J, Giermaziak, W, Krzych-Falta, E, & Jankowski, M. (2022). Awareness of Tobacco-Related Diseases among Adults in Poland: A 2022 Nationwide Cross-Sectional Survey. *Int J Environ Res Public Health*, 19(9). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35565096>

Bazell, R, Koh, H, & Bloom, BR. (2022). The Tobacco Wars' Lessons for the Vaccination Wars. *N Engl J Med*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35417634>

Weiger, C, Moran, MB, Kennedy, RD, Limaye, R, & Cohen, J. (2022). Beliefs and Characteristics Associated With Believing Nicotine Causes Cancer: A Descriptive Analysis to Inform Corrective Message Content and Priority Audiences. *Nicotine Tob Res*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35385112>

Li, W, Osibogun, O, Li, T, Sutherland, MT, & Maziak, W. (2022). Changes in harm perception of ENDS and their predictors among US adolescents: findings from the population assessment of tobacco and health (PATH) study, 2013-2018. *Prev Med*, 155, 106957. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35065977>

Zarghami, F, Allahverdipour, H, & Jafarabadi, MA. (2021). Extended parallel process model (EPPM) in evaluating lung Cancer risk perception among older smokers. *BMC Public Health*, 21(1), 1872. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34657617>

Lin, W, & Muscat, JE. (2021). Knowledge and Beliefs Regarding Harm From Specific Tobacco Products: Findings From the H.I.N.T. Survey. *Am J Health Promot*, 8901171211026116. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34338002>

Lin, W, Martinez, SA, Ding, K, & Beebe, LA. (2021). Knowledge and Perceptions of Tobacco-Related Harm Associated with Intention to Quit among Cigarette Smokers, e-Cigarette Users, and Dual Users: Findings from the US Population Assessment of Tobacco and Health (PATH) Wave 1. *Subst Use Misuse*, 1-7. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33594931>

Do, EK, Nicksic, NE, Clifford, JS, Hayes, A, & Fuemmeler, BF. (2020). Perceived harms of and exposure to tobacco use and current tobacco use among reproductive-aged women from the PATH study. *Women Health*, 1-12. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32654622>

Filippidis, FT, Driezen, P, Kyriakos, CN, Katsaounou, P, Petroulia, I, Girvalaki, C et al (2020). Transitions from and to roll-your-own tobacco, perceptions and health beliefs among smokers: findings from the EUREST-PLUS ITC Europe Surveys. *Eur J Public Health*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32267933>

Assari, S, & Bazargan, M. (2020). Educational Attainment and Tobacco Harm Knowledge Among American Adults: Diminished Returns of African Americans and Hispanics. *Int J Epidemiol Res*, 7(1). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32219175>

Haddad, C, Sacre, H, Hajj, A, Lahoud, N, Akiki, Z, Akel, M et al. (2020). Comparing cigarette smoking knowledge and attitudes among smokers and non-smokers. *Environ Sci Pollut Res Int*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32212070>

Alraeesi, FH, Farzin, FJ, Abdouli, KA, Sherif, FY, Almarzooqi, KA, & AlAbdool, NH. (2020). Smoking behavior, knowledge, attitude, and practice among patients attending primary healthcare clinics in Dubai, United Arab Emirates. *J Family Med Prim Care*, 9(1), 315-320. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32110611>

Guilbeault, D, & Centola, D. (2020). Networked collective intelligence improves dissemination of scientific information regarding smoking risks. *PLoS One*, 15(2), e0227813. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32027656>

Pacek, LR, & McClernon, FJ. (2020). Risk perceptions regarding cigarette smoking in the United States continue to decline. *Drug Alcohol Depend*, 209, 107887. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32044588>

Xiao, Z, Lee, J, Zeng, L, & Ni, L. (2020). Information seeking in the context of cigarette smoking: predictors from the Comprehensive Model of Information Seeking (CMIS). *Psychol Health Med*, 1-19. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32077752>

Kaufman, AR, Twesten, JE, Suls, J, McCaul, KD, Ostroff, JS, Ferrer, RA et al. (2019). Measuring Cigarette Smoking Risk Perceptions. *Nicotine Tob Res*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31883013>

Villanti, AC, Naud, S, West, JC, Pearson, JL, Wackowski, OA, Hair, E et al. (2019). Latent Classes of Nicotine Beliefs Correlate with Perceived Susceptibility and Severity of Nicotine and Tobacco Products in US young adults. *Nicotine Tob Res*, 21(Supplement_1), S91-S100. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31867640>

King, B, Borland, R, Yong, HH, Gartner, C, Hammond, D, Lewandowsky, S, & O'Connor, R. (2019). Understandings of the component causes of harm from cigarette smoking in Australia. [S]. *Drug and Alcohol Review*, 38(7), 807–817. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31691407>

Kabwama, SN, Kadobera, D, & Ndyabangi, S. (2018). Perceptions about the harmfulness of tobacco among adults in Uganda: Findings from the 2013 Global Adult Tobacco Survey. *Tob Induc Dis*, 16, 59. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31516456>

El-Khoury, F, Bolze, C, Gomajee, R, White, V, & Melchior, M. (2019). Lower smoking rates and increased perceived harm of cigarettes among French adults one year after comprehensive tobacco control measures. *Drug Alcohol Depend*, 201, 65-70. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31195346>

Minh Dao, AT, Thi Thu Nguyen, H, Kim, GB, Phan, HT, Van Nguyen, H, Doan, HT et al. (2019). Knowledge and Determinants of Health Consequences of Cigarette Smoking Among Vietnamese Adults, 2015. *Asia Pac J Public Health*, 1010539519854878. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31189347>

Quintana, HK, Herrera, V, Nino, C, Gomez, B, & Roa, R. (2019). Assessing the knowledge, attitudes and perceptions of tobacco-associated diseases and how it is influenced by tobacco products advertisement, promotion and sponsorship while enforcing a strong and comprehensive ban in Panama: a cross-sectional study. *BMJ Open*, 9(6), e024373. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31171546>

Wainwright, K, Perrotte, JK, Bibriescas, N, Baumann, MR, & Garza, RT. (2019). Smoking expectancies and health perceptions: An analysis of Hispanic subgroups. *Addict Behav*, 98, 106008. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31238236>

Ghose, S, Sardar, A, Shiva, S, Mullan, BE, & Datta, SS. (2019). Perception of tobacco use in young adults in urban India: a qualitative exploration with relevant health policy analysis. *Ecancermedicalscience*, 13, 915. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31123498>

Krosnick, JA, Malhotra, N, Mo, CH, Bruera, EF, Chang, L, Pasek, J, & Thomas, RK. Correction: Perceptions of health risks of cigarette smoking: A new measure reveals widespread misunderstanding. *PLoS One*, 2019. 14(2), e0212705. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30768653>

O'Brien EK, Persoskie, A, & Tam, J. Multi-item Measures of Tobacco Health Perceptions: A Review. *Am J Health Behav*, 2019. 43(2), 266-278. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30808467>

Park, J, Lim, MK, Yun, EH, Oh, JK, Jeong, BY, Cheon, Y, & Lim, S. Influences of Tobacco-Related Knowledge on Awareness and Behavior towards Smoking. *J Korean Med Sci*, 2018.33(47), e302. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30450026>

Holmstrom, IK, Bohlin, S, Wanhainen, A, Bjorck, M, & Frojd, C. Swedish men and smoking: Views on screening-detected abdominal aortic aneurysm. *Nurs Health Sci*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30238675>

Sikjaer, MG, Hilberg, O, Floe, A, Dollerup, J, Lokke, A. Lack of awareness towards smoking-related health risks, symptoms related to COPD, and attitudinal factors concerning smoking: an Internet-based survey conducted in a random sample of the Danish general population. *Eur Clin Respir J*. 2018 Aug 14;5(1):1506235. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30128089>

Brennan, E, Dunstone, K, Wakefield, M. Population awareness of tobacco-related harms: implications for refreshing graphic health warnings in Australia. *Med J Aust*, Jul 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29976131>

Lillard, DR, Onder, Z. Health information and life-course smoking behavior: evidence from Turkey. *Eur J Health Econ*, June 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29934875>

Majeed, BA, Nyman, A, Sterling, KL, Slovic, P. Little cigars and cigarillos: Affect and perceived relative harm among U.S. adults, 2015. *Addict Behav*. 2018 Oct;85:107-112. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29886248>

Greillier, L, Cortot, AB, Viguier, J, Brignoli-Guibaudet, L, Lhomel, C, Eisinger, F, Morere, JF, Couraud, S. Perception of Lung Cancer Risk: Impact of Smoking Status and Nicotine Dependence. *Curr Oncol Rep*. 2018 Mar 5;20(Suppl 1):18. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29508085>

Pacek, LR, McClernon, FJ. Decline in the perceived risk of cigarette smoking between 2006 and 2015: Findings from a U.S. nationally representative sample. *Drug Alcohol Depend*. 2018 Feb 5. pii: S0376-8716(18)30024-3. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29496344>

Kaufman, AR, Persoskie, A, Twesten, J, Bromberg, J. A review of risk perception measurement in tobacco control research. *Tob Control*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29432136>

Mori, T, Tsuge, T. Best-worst scaling survey of preferences regarding the adverse effects of tobacco use in China. *SSM Popul Health*. 2017 Jul 28;3:624-632. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29349250>

Chen, LS, Kaphingst, KA, Tseng, TS, Zhao, S. How are lung cancer risk perceptions and cigarette smoking related?-testing an accuracy hypothesis. *Transl Cancer Res*. 2016 Oct;5(Suppl 5):S964-S971. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29147644>

Johnson, SE, Coleman, B, Tessman, GK, Dickinson, DM. Unpacking Smokers' Beliefs About Addiction and Nicotine: A Qualitative Study. *Psychol Addict Behav*, 2017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28981306>

Krosnick, JA, Malhotra, N, Mo, CH, Bruera, EF, Chang, L, Pasek, J and Thomas, RK. Perceptions of health risks of cigarette smoking: A new measure reveals widespread misunderstanding. *PLoS One*. 2017 Aug 14;12(8):e0182063. Available from: <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0182063>

Kaufman, AR, Coa, K, Nguyen, AB. Cigarette smoking risk-reducing beliefs: Findings from the United States Health Information National Trends Survey. *Prev Med*. 2017 Jun 25. pii: S0091-7435(17)30229-3. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28658608>

Dunbar, MS, Shadel, WG, Tucker, JS, Edelen, MO. Use of and reasons for using multiple other tobacco products in daily and nondaily smokers: Associations with cigarette consumption and nicotine dependence. *Drug Alcohol Depend*. 2016 Nov 1;168:156-163. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27664553>

Sterling, KL, Majeed, BA, Nyman, A, Eriksen, M. Risk perceptions of little cigar and cigarillo smoking among adult current cigarette smokers. *Nicotine Tob Res*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27659275>

Cappella, JN, Maloney, E, Ophir, Y, Brennan, E. Interventions to Correct Misinformation About Tobacco Products. *Tob Regul Sci*. 2015 Jul;1(2):186-197. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27135046>

Atkinson, M et al. Title: factors influencing consumers' perceived risk of tobacco products. *Value Health*, 2015 Nov; 18(7):A505. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26532835>

Saadoune, N et al. Beliefs and behaviour about smoking among inflammatory bowel disease patients. *European Journal of Gastroenterology & Hepatology*, 2015 Jul; 27(7):797-803. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25919776>

Sterling, KL et al. The most natural tobacco used: a qualitative investigation of young adult smokers' risk perceptions of flavored little cigars and cigarillos. *Nicotine & Tobacco Research*, 2016 May; 18(5):827-33. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26175458>

Quaife, SL et al. Smoking is associated with pessimistic and avoidant beliefs about cancer: results from the International Cancer Benchmarking Partnership. *British Journal of Cancer*, 2015 May 26; 112(11):1799-804. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25950385>

Marshall, TR. The 1964 Surgeon General's Report and Americans' beliefs about smoking. *Journal of the History of Medicine and Allied Sciences*, 2015 Apr;70(2):250-78. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25862749>

Masiero, M et al. Personal fable: optimistic bias in cigarette smokers. *International Journal of High Risk Behaviors & Addiction*, 2015 Mar 20; 4(1):e20939. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25883917>

Kaufman, AR et al. Factor structure and stability of smoking-related health beliefs in the National Lung Screening Trial. *Nicotine & tobacco research*, 2016 Mar; 18(3):321-9. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25964503>

Mohammadnezhad, M et al. "I have never experienced any problem with my health. So far, it hasn't been harmful": older Greek-Australian smokers' views on smoking: a qualitative study. *BMC Public Health*, 2015 Mar 29; 15:304. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25885899>

Peltzer K and Pengpid S. Tobacco use, beliefs and risk awareness in university students from 24 low, middle and emerging economy countries. *Asian Pac J Cancer Prev*, 2014; 15(22):10033-8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25520065>

Ford, JS, Puleo, E, Sprunck-Harrild, K, deMoor, J, Emmons, KM. Perceptions of risk among childhood and young adult cancer survivors who smoke. *Support Care Cancer*. 2014 Aug;22(8):2207-17. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24659242>

Hall, MG, Ribisl, KM, Brewer, NT. Smokers' and nonsmokers' beliefs about harmful tobacco constituents: implications for FDA communication efforts. *Nicotine Tob Res*. 2014 Mar;16(3):343-50. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24151139>

Leidner, AJ, Shaw, WD, Yen, ST. An historical perspective on health-risk awareness and unhealthy behaviour: cigarette smoking in the United States 1949-1981. *Health Expect*. 2014 Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25132055>

Pulvers, K, Scheuermann, TS, Romero, DR, Basora, B, Luo, X, Ahluwalia, JS. Classifying a smoker scale in adult daily and nondaily smokers. *Nicotine Tob Res*. 2014 May;16(5):591-9. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24297807>

3 34.2 Public awareness of the health effects of smoking

Koteles, F, Szemerszky, R, Petrie, K, & Nordin, S. (2023). Modern health worries and annoyance from environmental factors are largely unrelated to smoking, alcohol consumption, and physical activity. *J Psychosom Res*, 172, 111417. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37331267>

Chen, Q, Dai, JN, Chen, XD, Qin, T, Lai, WY, & Wang, Y. (2022). Awareness of hazards due to tobacco among people aged 15 years and older in Chongqing, China, in 2020: A cross-sectional analysis. *Tob Induc Dis*, 20, 112. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36561423>

Fonseca, ADG, Silva Junior, RFD, Bauman, CD, Silva, LL, Silva, C, & Martins, A. (2022). Validity and reliability of the Smoking-related Health Literacy Assessment Scale. *Einstein (Sao Paulo)*, 20, eAO5156. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35195160>

Mills, SD, & Wiesen, CA. (2021). Beliefs About the Health Effects of Smoking Among Adults in the United States. *Health Educ Behav*, 10901981211004136. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33870757>

News reports:

Wu, C. Kiwis find smoking more unattractive in a partner than a criminal past - study. *NewsHub*, 2020. October 29, 2020. Retrieved from <https://www.newshub.co.nz/home/lifestyle/2020/10/kiwis-find-smoking-more-unattractive-in-a-partner-than-a-criminal-past-study.html>

Goodier, R. Young adults see less harm in tobacco products, prefer online health information. *Physician's Weekly*, 2019. June 6, 2019. Available from: <https://www.physiciansweekly.com/young-adults-see-less/>

Brennan, E, Dunstone, K, Wakefield, M. Population awareness of tobacco-related harms: implications for refreshing graphic health warnings in Australia. *Med J Aust*, 2018. Jul 7, 2018. Available from: https://www.mja.com.au/system/files/issues/209_04/10.5694mja17.01207.pdf

Taylor, Tegan. Smoking warning labels could need a refresh to inform public of new health risk discoveries. *ABC News*, 2018. July 9, 2018. Available from: <http://www.abc.net.au/news/health/2018-07-09/smoking-graphic-warning-label-refresh-to-improve-risk-knowledge/9947728>

Choahan, Neelima. Update graphic images on cigarette packages to remind of health risks, experts say. *Royal Australian College of General Practitioners*, 2018. July 9, 2018. Available from: <https://www.racgp.org.au/newsGP/Clinical/Update-graphic-images-on-cigarette-packages-to-rem>

No authors listed. 40% of smokers incorrectly think nicotine causes cancer. *The Phoenix*, 2018. Mar 21, 2018. Available from: <https://thephoenixnewspaper.com/40-of-smokers-incorrectly-think-nicotine-causes-cancer>

Duke University Medical Centre. Fewer Americans think smoking a pack a day poses a great health risk. *EurekaAlert!*, 2018. March 1, 2018. Available from: https://eurekaalert.org/pub_releases/2018-02/dumc-fat022718.php

No authors listed. Cancer survivors who smoke perceive less risk from tobacco. *Medical News Today*, 2015. July 3, 2015. Available from: <http://www.medicalnewstoday.com/releases/296303.php?tw>

Kennedy, Madeline. Smokers more likely to think cancer is a death sentence. Reuters, 2015. May 22, 2015. Available from: <http://www.reuters.com/article/2015/05/22/us-smoking-cancer-attitudes-idUSKBN0072FH20150522>

No authors listed. Smokers underestimate risks of a few cigarettes: Survey shows that many live in 'denial' of the real risks. Medical News Today, 2015. Apr 17, 2015. Available from: <http://www.medicalnewstoday.com/releases/292520.php?tw>

No authors listed. Botswana's smoking epidemic – an old problem getting younger. Sunday Standard, 2015. Mar 8, 2015. Available from: <http://www.sundaystandard.info/article.php?NewsID=22394&GroupID=1>

3.34.2 Public awareness of the health effects of smoking

No authors listed. Smoking 'damages eyes as well as lungs'. BBC, 2019. July 2, 2019. Available from: <https://www.bbc.com/news/health-48824720>