

# Tobacco in Australia

## Facts & Issues

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### Relevant news and research

#### 5.1 Stages in the uptake of smoking

*Last updated December 2024*

#### Research:

Fernandes, D, Chok, L, Cros, J, Lebon, L, Zurcher, K, Dubuis, A et al . (2024). Age of tobacco, nicotine and cannabis use initiation in Switzerland: a sequence analysis among adolescents and young adults. *BMC Public Health*, 24(1), 3213. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39563294>

Shalan, N, Jarrar, Y, Nofel, H, Alqaddoumi, R, Samour, S, Al-Hussein, A et al . (2024). Factors Associated with Tobacco Smoking Initiation in Jordan: A Cross-Sectional Study. *Asian Pac J Cancer Prev*, 25(11), 4089-4096. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39611934>

El-Shahawy, O, Walker, KL, Groom, AM, Payne, TJ, Tompkins, LK, Kesh, A et al. (2024). Initial experimentation with tobacco is associated with subsequent tobacco use patterns among youth in the United States. *PLoS One*, 19(9), e0308964. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39331590>

Rajani, NB, Goyal, J, & Filippidis, FT. (2024). First experience with nicotine products and transition to regular tobacco use: a secondary data analysis in 28 European countries. *BMJ Open*, 14(3), e080818. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38548355>

Blank, MD, Turiano, NA, Bray, BC, Milstred, AR, Childers, M, Dino, G, & Romm, KF. (2024). Factors associated with transitions in tobacco product use states among young adults aged 18-29 years. *Am J Addict*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38402462>

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Masihay-Akbar, H, Razmjouei, S, Ainy, E, Cheraghi, L, Azizi, F, & Amiri, P. (2023). Cigarette smoking trajectories among adolescents and young adults in the Islamic Republic of Iran. *East Mediterr Health J*, 26(11), 839-849. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38279879>

Siegel, LN, Cook, S, Oh, H, Liber, AC, Levy, DT, & Fleischer, NL. (2023). The longitudinal association between coupon receipt and established cigarette smoking initiation among young adults in USA. *Tob Control*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37468154>

Boyd, CJ, McCabe, SE, Evans-Polce, RJ, Voepel-Lewis, T, Shuman, C, & Veliz, P. (2022). Adolescents' Nicotine/Tobacco Dependency Symptoms Using 4 Waves of PATH Data. *Health Behav Policy Rev*, 9(4), 980-995. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37273819>

Bluestein, MA, Kuk, AE, Harrell, MB, Chen, B, Hebert, ET, & Perez, A. (2023). Longitudinal Transition Patterns of Tobacco Use Among Youth and Young Adults Never Tobacco Product Users: Findings From the Population Assessment of Tobacco and Health Study, 2014-2019. *Tob Use Insights*, 16, 1179173X231161314. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36923154>

Simon, P, Buta, E, Jackson, A, Camenga, DR, Kong, G, Morean, ME et al. (2023). The first nicotine product tried is associated with current multiple nicotine product use and nicotine dependence among a nationally representative sample of U.S. youths. *Prev Med*, 169, 107437. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36731754>

Kim, SY, & Cho, SI. (2022). Developmental trajectories of tobacco use and risk factors from adolescence to emerging young adulthood: a population-based panel study. *BMC Public Health*, 22(1), 1636. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36038859>

Perez, A, Kuk, AE, Bluestein, MA, Chen, B, Sterling, KL, & Harrell, MB. (2021). Age of initiation of hookah use among young adults: Findings from the Population Assessment of Tobacco and Health (PATH) study, 2013-2017. *PLoS One*, 16(10), e0258422. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34637482>

Cantrell, J, Xu, S, Kreslake, J, Liu, M, & Hair, E. (2021). Cigar use progression among new cigar initiators: A two-part growth curve analysis among a youth and young adult cohort. *Nicotine Tob Res*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34259873>

Perez, A, N'Hpang R, S, Callahan, E, Bluestein, M, Kuk, AE, Chen, B et al (2021). Age at Initiation of Cigarette Use in a Nationally Representative Sample of US Youth, 2013-2017. *JAMA Netw Open*, 4(2), e210218. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33635326>

Chen, B, Sterling, KL, Bluestein, MA, Kuk, AE, Harrell, MB, Perry, CL, & Perez, A. (2020). Age of initiation of cigarillos, filtered cigars and/or traditional cigars among youth: Findings from the Population Assessment of Tobacco and Health (PATH) study, 2013-2017. *PLoS One*, 15(12), e0243372. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33296394>

Perez, A, Penedo, E, Bluestein, MA, Chen, B, Perry, CL, & Harrell, MB. (2020). The Recalled Age of Initiation of Multiple Tobacco Products among 26-34 Year Olds: Findings from the Population Assessment of Tobacco and Health (PATH) Study Wave 1 (2013-2014). *Int J Environ Res Public Health*, 17(23). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33287139>

Minary, L, Agrinier, N, Dugas, EN, Sylvestre, MP, & O'Loughlin, J. (2020). The Natural Course of Cigarette Smoking among Adolescent Daily Smokers in France and Quebec. *Tob Use Insights*, 13, 1179173X20943549. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32922106>

Ahun, MN, Lauzon, B, Sylvestre, MP, Bergeron-Caron, C, Eltonsy, S, & O'Loughlin, J. (2020). A systematic review of cigarette smoking trajectories in adolescents. *Int J Drug Policy*, 83, 102838. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32683174>

Amiri, P, Masihay-Akbar, H, Jalali-Farahani, S, Karimi, M, Momenan, AA, & Azizi, F. (2020). The First Cigarette Smoking Experience and Future Smoking Behaviors Among Adolescents with Different Parental Risk: a Longitudinal Analysis in an Urban Iranian Population. *Int J Behav Med*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32671634>

Ebrahimi Kalan, M, Behaleh, R, DiFranza, JR, Bursac, Z, Ben Taleb, Z., Tleis, M et al. (2020). Natural Course of Nicotine Dependence Among Adolescent Waterpipe and Cigarette Smokers. *J Adolesc Health*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32622925>

Berg, CJ, Haardorfer, R, Lanier, A, Childs, D, Foster, B, Getachew, B, & Windle, M. (2020). Tobacco use trajectories in young adults: Analyses of predictors across systems levels. *Nicotine Tob Res*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32170324>

Loukas, A, Marti, CN, & Perry, CL. Trajectories of Tobacco and Nicotine Use Across Young Adulthood, Texas, 2014-2017. *Am J Public Health*, 2019. e1-e7. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30676800>

Sharapova, S, Reyes-Guzman, C, Singh, T, Phillips, E, Marynak, KL, & Agaku, I. Age of tobacco use initiation and association with current use and nicotine dependence among US middle and high school students, 2014-2016. *Tob Control*, Dec 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30501140>

Cantrell, J, Bennett, M, Mowery, P, Xiao, H, Rath, J, Hair, E, Vallone, D. Patterns in first and daily cigarette initiation among youth and young adults from 2002 to 2015. *PLoS One*. 2018 Aug 10;13(8):e0200827. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30096141>

Khosravi, A, Emamian, MH, Hashemi, H, Fotouhi, A. Transition in tobacco use stages and its related factors in a longitudinal study. *Environ Health Prev Med*. 2018 Aug 18;23(1):39. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30121092>

Marcon, A, Pesce, G, Calciano, L, Bellisario, V, Dharmage, SC, Garcia-Aymerich, J, Gislason, T, Heinrich, J, Holm, M, Janson, C, Jarvis, D, Leynaert, B, Matheson, MC, Pirina, P, Svanes, C, Villani, S, Zuberbier, T, Minelli, C, Accordini, S, Ageing Lungs In European Cohorts, study. Trends in smoking initiation in Europe over 40 years: A retrospective cohort study. *PLoS One*. 2018 Aug 22;13(8):e0201881. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30133533>

Berg, CJ, Haardorfer, R, Milkie, V, Getachew, B, Lloyd, SA, Lanier, A, Childs, D, Sandridge, Y, Bierhoff, J, Li, J, Dossantos, E, Windle, M. Cigarette use trajectories in young adults: Analyses of predictors across system levels. *Drug Alcohol Depend*. 2018 May 22;188:281-287. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29807215>

Villanti, AC, Niaura, RS, Abrams, DB, Mermelstein, R. Preventing Smoking Progression in Young Adults: the Concept of Preescalation. *Prev Sci*, 2018. Mar 10, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29525899>

Dutra, LM, Glantz, SA. Thirty-day smoking in adolescence is a strong predictor of smoking in young adulthood. *Prev Med*. 2018 Jan 20. pii: S0091-7435(18)30015-X. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29366819>

Watkins, SL, Glantz, SA, Chaffee, BW. Association of Noncigarette Tobacco Product Use With Future Cigarette Smoking Among Youth in the Population Assessment of Tobacco and Health (PATH) Study, 2013-2015. *JAMA Pediatr*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29297010>

Lenk, KM, Erickson, DJ, Forster, JL. Trajectories of Cigarette Smoking From Teens to Young Adulthood: 2000 to 2013. *Am J Health Promot*. 2017 Jan 1;890117117696358. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29214809>

Birge, M, Duffy, S, Miler, JA, Hajek, P. What proportion of people who try one cigarette become daily smokers? A meta analysis of representative surveys. *Nicotine Tob Res*, 2017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29126298>

Sargent, JD, Gabrielli, J, Budney, A, Soneji, S, Wills, TA. Adolescent smoking experimentation as a predictor of daily cigarette smoking. *Drug Alcohol Depend*. 2017 Jun 1;175:55-59. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28391086>

Dutra, LM, Glantz, SA, Lisha, NE, Song, AV. Beyond experimentation: Five trajectories of cigarette smoking in a longitudinal sample of youth. *PLoS One*. 2017 Feb 9;12(2):e0171808. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28182748>

Cooke, ME, Nasim, A, Cho, SB, Kendler, KS, Clark, SL, Dick, DM. Predicting tobacco use across the first year of college. *Am J Health Behav*. 2016 Jul;40(4):484-95. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27338995>

Saddleson, ML, Kozlowski, LT, Giovino, GA, Homish, GG, Mahoney, MC, Goniewicz, ML. Assessing 30-day quantity-frequency of U.S. adolescent cigarette smoking as a predictor of adult smoking 14 years later. *Drug Alcohol Depend*, 2016; 162, 92–8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26987520>

Kaufman, AR et al. Tobacco use transitions in the United States: The National Longitudinal study of adolescent health. *Prev Med*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26361752>

Borracci, RA, Mulassi, AH. Tobacco use during adolescence may predict smoking during adulthood: simulation-based research. *Archivos Argentinos de Pediatria*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25727822>

Orpinas, P et al. Cigarette smoking trajectories from sixth to twelfth grade: associated substance use and high school dropout. *Nicotine & Tobacco Research*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25744961>

Hwang JH and Park SW. Age at smoking initiation and subsequent smoking among Korean adolescent smokers. *J Prev Med Public Health*, 2014; 47(5):266-72. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25284198>

Rosa Jda R, Aloise-Young PA, and Henry KL. Using motives for smoking to distinguish between different college student smoker typologies. *Psychol Addict Behav*, 2014; 28(4):1297-304. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25528054>

## News reports:

No authors listed. Most people who try one cigarette become daily smokers, study says. BBC, Jan 2018. Available from: <http://www.bbc.com/news/health-42619664>

Glantz, S. New UCSF study: There are 5 different trajectories of youth smoking. Center for Tobacco Control Research and Education, 2017. Feb 10, 2017. Available from: <https://tobacco.ucsf.edu/new-ucsf-study-there-are-5-different-trajectories-youth-smoking>

Birge, M, Duffy, S, Miler, JA, Hajek, P. What proportion of people who try one cigarette become daily smokers? A meta analysis of representative surveys. *Nicotine Tob Res*, Nov 2017. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/29126298>