

Tobacco in Australia

Facts & Issues

Relevant news and research

5.4 Adolescence and brain maturation

Last updated September 2023

Research:

Xiang, S, Jia, T, Xie, C, Cheng, W, Charani, B, Banaschewski, T et al. (2023). Association between vmPFC gray matter volume and smoking initiation in adolescents. *Nat Commun*, 14(1), 4684. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37582920>

Conti, AA, & Baldacchino, AM. (2023). Early-onset smoking theory of compulsivity development: a neurocognitive model for the development of compulsive tobacco smoking. *Front Psychiatry*, 14, 1209277. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37520221>

Klaver, SJ, Dvorak, RD, De Leon, AN, Burr, EK, Leary, AV, Hayden, ER et al. (2023). Support for incentive-sensitization theory in adolescent ad libitum smokers using ecological momentary assessment. *Exp Clin Psychopharmacol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37384458>

Boer, OD, El Marroun, H, & I, HAF. (2022). Brain Morphology Predictors of Alcohol, Tobacco, and Cannabis Use in Adolescence: A Systematic Review. *Brain Res*, 148020. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35853511>

Casseus, M, Cooney, JM, & Wackowski, OA. (2022). Tobacco use, dependence, and age of initiation among youth with cognitive disability. *J Pediatr*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35569523>

Ates, BO, Kadak, MT, Hoda, ED, Demir, T, & Dogangun, B. (2021). Separation Individuation and Transitional Object Use in Daily Smoker Adolescents. *Subst Use Misuse*, 1-7. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34608828>

Ebrahimi Kalan, M, Bahelah, R, Bursac, Z, Ben Taleb, Z, DiFranza, JR, Tleis, M et al (2020). Predictors of nicotine dependence among adolescent waterpipe and cigarette smokers: A 6-year longitudinal analysis. *Drug Alcohol Depend*, 217, 108346. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33075692>

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Abreu-Villaca, Y, Manhaes, AC, Krahe, TE, Filgueiras, CC, Ribeiro-Carvalho, A. Tobacco and alcohol use during adolescence: Interactive mechanisms in animal models. *Biochem Pharmacol*. 2017 Jun 7. pii: S0006-2952(17)30436-7. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28599850>

Garrison, KA, Yip, SW, Balodis, IM, Carroll, KM, Potenza, MN, Krishnan-Sarin, S. Reward-related frontostriatal activity and smoking behavior among adolescents in treatment for smoking cessation. *Drug Alcohol Depend*. 2017 Jun 3;177:268-276. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28651213>

Terry-McElrath, YM, O'Malley, PM, Johnston, LD. Discontinuous Patterns of Cigarette Smoking from Age 18 to 50 in the U.S.: A Repeated-Measures Latent Class Analysis. *Nicotine Tob Res*, 2017. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28371840>

Do, KT, Galvan, A. Neural sensitivity to smoking stimuli is associated with cigarette craving in adolescent smokers. *J Adolesc Health*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26679479>

5.4.1 Onset of puberty

Dunn, M, & Yannessa, J. (2022). The Relationship Between Sexual Intercourse Before the age of 13 and Alcohol, Tobacco, and Other Drug use among High School Students. *J Drug Educ*, 472379221111548. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35769035>

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News reports:

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