

Tobacco in Australia

Facts & Issues

Relevant news and research

6.8 Interactions between tobacco smoke and medications

Last updated October 2024

Research:

Bellanca, CM, Augello, E, Di Benedetto, G, Burgaletto, C, Cantone, AF, Cantarella, G et al . (2024). A web-based scoping review assessing the influence of smoking and smoking cessation on antidiabetic drug metabolism: implications for medication efficacy. *Front Pharmacol*, 15, 1406860. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38957391>

Horvat, M, Kadija, M, Scavnicar, A, Zivkovic, M, Sagud, M, & Lovric, M. (2023). Association of smoking cigarettes, age, and sex with serum concentrations of olanzapine in patients with schizophrenia. *Biochem Med (Zagreb)*, 33(3), 030702. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37841771>

Yelehe-Okouma, M, Charrois-Sciaudeau, S, Tyvaert, L, Bertoni, N, & Gambier, N. (2023). Therapeutic drug monitoring as an essential tool to ensure clozapine efficacy and prevent its toxicity in smokers: a case report. *Eur J Clin Pharmacol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37740750>

Bilal, R, Ahmad, NS, Zaffar, S, Mazhar, MU, Siddiqui, WA, & Tariq, S. (2022). Rasagiline Pharmacokinetics in CYP1A2 Variant Healthy Smokers & Non-smokers in Different Doses. *Pak J Med Sci*, 38(3Part-I), 589-594. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35480532>

An, H, Fan, H, Chen, S, Qi, S, Ma, B, Shi, J et al (2021). Effects of Dose, Age, Sex, Body Weight, and Smoking on Plasma Concentrations of Olanzapine and N-desmethyl Olanzapine in Inpatients With Schizophrenia. *Journal of Clinical Psychopharmacology*, 41(3), 255-259. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33814547>

Andrade C. Schizophrenia and smoking. *Journal of Clinical Psychiatry*, 2012; 73(6):e725–e7. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/22795210>

Boksa P. Smoking, psychiatric illness and the brain. *J Psychiatry Neurosci*, 2017; 42(3):147–9. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28440208>

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Desai HD, Seabolt J, and Jann MW. Smoking in patients receiving psychotropic medications: A pharmacokinetic perspective. *CNS Drugs*, 2001; 15(6):469–94. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/11524025>

Zevin S and Benowitz NL. Drug interactions with tobacco smoking. An update. *Clinical Pharmacokinetics*, 1999; 36(6):425–38. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/10427467>

News reports: