

Tobacco in Australia

Facts & Issues

Relevant news and research

3.20 Nicotine and carbon monoxide poisoning

Last updated April 2024

Research:

Huang, BZ, Binder, AM, Quon, B, Patel, YM, Lum-Jones, A, Tiirikainen, M et al. (2024). Epigenome-wide association study of total nicotine equivalents in multiethnic current smokers from three prospective cohorts. *Am J Hum Genet*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38367619>

Khouja, JN, Sanderson, E, Wootton, RE, Taylor, AE, Church, BA, Richmond, RC, & Munafo, MR. (2024). Estimating the health impact of nicotine exposure by dissecting the effects of nicotine versus non-nicotine constituents of tobacco smoke: A multivariable Mendelian randomisation study. *PLoS Genet*, 20(2), e1011157. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38335242>

Sansone, L, Milani, F, Fabrizi, R, Belli, M, Cristina, M, Zaga, V et al. (2023). Nicotine: From Discovery to Biological Effects. *Int J Mol Sci*, 24(19). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37834017>

Tang, M, Zhang, M, Fu, Y, Chen, L, Li, D, Zhang, H et al. (2023). Terahertz label-free detection of nicotine-induced neural cell changes and the underlying mechanisms. *Biosens Bioelectron*, 241, 115697. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37751650>

King, A. (2023). Is nicotine bad for long-term health? Scientists aren't sure yet. *Nature*, 618(7964), S10-S11. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37286654>

Groppetti, D, Pizzi, G, Pecile, A, Bronzo, V, & Mazzola, SM. (2023). Cotinine as a Sentinel of Canine Exposure to Tobacco Smoke. *Animals (Basel)*, 13(4). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36830480>

Archie, SR, Sharma, S, Burks, E, & Abbruscato, T. (2022). Biological determinants impact the neurovascular toxicity of nicotine and tobacco smoke: A pharmacokinetic and pharmacodynamics

Tobacco in Australia

Facts & Issues

perspective. *Neurotoxicology*, 89, 140-160. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35150755>

3.20.1 Ingestion

Ershad, M, Beld, J, Mostafa, A, Dela Cruz, M, Vearrier, D, & Greenberg, MI. (2020). Nicotine Content from Cigarettes Submerged in Soda. *J Med Toxicol*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32180139>

Yamamoto, H, Takayasu, T, Ishida, Y, Nosaka, M, Hata, S, Kuninaka, Y et al. (2019). A case of complex suicide due to acute nicotine intoxication caused by cigarette ingestion. *Int J Legal Med*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31836934>

3.20.2 Green tobacco sickness

Alves, J, Da Silva, FR, Kahl, V, Reyes, J, Lima, E, Abreu, MB et al (2020). Impact of nicotine-induced green tobacco sickness on DNA damage and the relation with symptoms and alterations of redox status in tobacco farmers. *Ecotoxicol Environ Saf*, 206, 111397. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33007538>

Campos, E, Costa, VID, Alves, SR, Rosa, ACS, Geraldino, BR, Meira, BDC et al. (2020). Occurrence of green tobacco sickness and associated factors in farmers residing in Dom Feliciano Municipality, Rio Grande do Sul State, Southern Region of Brazil. *Cad Saude Publica*, 36(8), e00122719. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32813792>

McMahon, LR. Green tobacco sickness: mecamylamine, varenicline, and nicotine vaccine as clinical research tools and potential therapeutics. *Expert Rev Clin Pharmacol*, 2019.1-7. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30650314>

3.20.3 Carbon monoxide poisoning

Nah, S, Choi, S, Lee, SU Kim, GW, Lee, YH , & Han, S. (2021). Effects of smoking on delayed neuropsychiatric sequelae in acute carbon monoxide poisoning: A prospective observational study. *Medicine (Baltimore)*, 100(20), e26032. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34011113>

Neilsen, BK, Aloj, J, & Sharma, A. (2019). Acute Carbon Monoxide Poisoning Secondary to Cigarette Smoking in a 40-Year-Old Man: A Case Report. *Am J Addict*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31348564>

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News reports:

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