

Tobacco in Australia

Facts & Issues

Relevant news and research

3.28 Health 'benefits' of smoking?

Last updated December 2024

Research:	1
3.28.1 <i>Ulcerative colitis</i>	2
3.28.2 <i>Parkinson's disease</i>	5
3.28.4 <i>Pre-eclampsia (hypertension in pregnancy)</i>	10
3.28.5 <i>Cognitive performance</i>	12
3.28.7 <i>Thyroid cancer</i>	15
3.28.8 <i>Skin cancer</i>	15
3.28.9 <i>Other possible health 'benefits'</i>	17
News reports:	18
3.28.1 <i>Ulcerative colitis</i>	18
3.28.2 <i>Parkinson's disease</i>	19
3.28.5 <i>Cognitive performance</i>	19
3.28.5 <i>Skin cancer</i>	19

Research:

Chen, X, Wang, T, Tian, Y, Ma, Y, Liu, Y, Chen, H et al. (2024). Smoking-diseases correlation database: comprehensive analysis of the correlation between smoking and 422 diseases based on NHANES 2013-2018. *Front Public Health*, 12, 1325856. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38912260>

Marin-Jimenez, I, & Gomollon, F. (2020). Year 1983: Smoking decreases the risk of ulcerative colitis. *Gastroenterol Hepatol*, 43(7), 373-374. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32713497>

Bamji, A. (2020). Blowing Smoke Up Your Arse: Drowning, Resuscitation, and Public Health in Eighteenth-Century Venice. *Bull Hist Med*, 94(1), 29-63. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32362593>

Zhang, P, Guo, ZN, Sun, X, Zhao, Y, & Yang, Y. (2019). Meta-analysis of the Smoker's Paradox in Acute Ischemic Stroke Patients Receiving Intravenous Thrombolysis or Endovascular Treatment. *Nicotine & Tobacco Research*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31219582>

Newhouse, PA. Therapeutic Applications of Nicotinic Stimulation: Successes, Failures, and Future Prospects. *Nicotine Tob Res*, Sept 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30203054>

Fujioka, S, Wu, RM, Tsuboi, Y. Does cigarette smoking do nothing but harm? *Neurology*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29352096>

Gomes, JP, Watad, A, Shoenfeld, Y. Nicotine and autoimmunity: The lotus' flower in tobacco. *Pharmacol Res*. 2017 Oct 16. pii: S1043-6618(17)30905-2. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29051105>

Cockroft, KM. Editorial. A smoker's paradox: does being a smoker really lead to a better outcome after aneurysmal SAH? *J Neurosurg*. 2017 Oct 27:1-4. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29076780>

Alomari, MA, Al-Sheyab, NA. Cigarette smoking lowers blood pressure in adolescents: the Irbid-TRY. *Inhal Toxicol*, Feb 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26888292>

Bell, TM et al. "Smoker's paradox" in patients treated for severe injuries: lower risk of mortality after trauma observed in current smokers. *Nicotine & Tobacco Research*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25646350>

3.28.1 Ulcerative colitis

Kastratovic, N, Markovic, V, Arsenijevic, A, Volarevic, A, Zdravkovic, N, Zdravkovic, M et al. (2024). The effects of combustible cigarettes and electronic nicotine delivery systems on immune cell-driven inflammation and mucosal healing in ulcerative colitis. *Nicotine Tob Res*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39101540>

Miyake, Y, Tanaka, K, Nagata, C, Furukawa, S, Andoh, A, Yokoyama, T et al. (2024). Case-control study of IL23R rs76418789 polymorphism, smoking, and ulcerative colitis in Japan. *Cytokine*, 183, 156743. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39213891>

Zhang, YX, Chi, XQ, Li, M, Zhang, W, Guan, Y, & Wu, LQ. (2024). Nicotine improves DSS-induced colitis by inhibiting NLRP3 and altering gut microbiota. *J Asian Nat Prod Res*, 1-20. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38655696>

Yan Ang, Q, Plichta, D, Kim, S, Hyun, AKI, Gregory, S, Xia, Y et al. (2023). Differential Impact of Smoking on Methylome and Transcriptome in Crohn's Disease and Ulcerative Colitis. *Inflamm Bowel Dis.* Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38001042>

Kondo, K, Ono, Y, Ohfuji, S, Watanabe, K, Yamagami, H, Watanabe, M et al. (2023). Smoking and drinking habits relating to development of ulcerative colitis in Japanese: A multicenter case-control study. *JGH Open*, 7(1), 61-67. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36660047>

Nishikawa, A, Tanaka, K, Miyake, Y, Nagata, C, Furukawa, S, Andoh, A et al. (2021). Active and passive smoking and risk of ulcerative colitis: A case-control study in Japan. *J Gastroenterol Hepatol.* Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34845747>

Malibary, NH, Ezzat, MA, Mogharbel, AM, Kouzaba, KA, Alkadi, AA, Malki, UH et al. (2021). Factors Affecting Ulcerative Colitis Flare-Ups: Associations With Smoking Habits and Other Patient Characteristics. *Cureus*, 13(11), e19834. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34824952>

Pedersen, KM, Colak, Y, Vedel-Krogh, S, Kobylecki, CJ, Bojesen, SE, & Nordestgaard, BG. (2021). Risk of ulcerative colitis and Crohn's disease in smokers lacks causal evidence. *Eur J Epidemiol.* Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34091767>

AlQasrawi, D, Qasem, A, & Naser, SA. (2020). Divergent Effect of Cigarette Smoke on Innate Immunity in Inflammatory Bowel Disease: A Nicotine-Infection Interaction. *Int J Mol Sci*, 21(16). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32823518>

Rezaei, F, Hosseini, E, & Rezaei, F. (2019). Comparison of salivary epidermal growth factor in patients with recurrent aphthous stomatitis, smokers, and healthy individuals. *J Family Med Prim Care*, 8(8), 2587-2591. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31548937>

Blackwell, J, Saxena, S, Alexakis, C, Bottle, A, Cecil, E, Majeed, A, & Pollok, RC. (2019). The impact of smoking and smoking cessation on disease outcomes in ulcerative colitis: a nationwide population-based study. *Aliment Pharmacol Ther*, 50(5), 556-567. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31389044>

Lee, HS, Kim, K, Jung, S, Hong, M, Kim, BM, Yoo, DS et al. (2019). Effects of smoking on the association of HLA with ulcerative colitis. *J Gastroenterol Hepatol.* Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31038770>

Park, S, Chun, J, Han, K D, Soh, H, Kang, EA, Lee, HJ et al (2019). Dose-response relationship between cigarette smoking and risk of ulcerative colitis: a nationwide population-based study. *J Gastroenterol.* Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31093771>

Dai, C, Jiang, M, Sun, MJ. The Effect of Smoking on the Risk of Pouchitis in Ulcerative Colitis Patients With Ileal Pouch-anal Anastomosis. Inflamm Bowel Dis, Aug 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30124837>

Gorrepati, VS, Stuart, A, Deiling, S, Koltun, W, Tinsley, A, Williams, ED, Coates, MD. Response to the Letter to the Editor from Dai et al, Regarding "Smoking and the Risk of Pouchitis in Ulcerative Colitis Patients with Ileal Pouch Anal Anastomosis". Inflamm Bowel Dis, Aug 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30124832>

Kridin, K, Zamir, H, Cohen, AD. Cigarette smoking associates inversely with a cluster of two autoimmune diseases: ulcerative colitis and pemphigus. Immunol Res, Aug 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30112667>

Gorrepati, VS, Stuart, A, Deiling, S, Koltun, W, Tinsley, A, Williams, ED, Coates, MD. Smoking and the Risk of Pouchitis in Ulcerative Colitis Patients With Ileal Pouch-Anal Anastomosis. Inflamm Bowel Dis, May 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29788269>

Zhai, H, Huang, W, Liu, A, Li, Q, Hao, Q, Ma, L, Yang, F, Zhang, S. Current smoking improves ulcerative colitis patients' disease behaviour in the northwest of China. Prz Gastroenterol. 2017;12(4):286-290. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29358998>

Salih, A, Widbom, L, Hultdin, J, Karling, P. Smoking is associated with risk for developing inflammatory bowel disease including late onset ulcerative colitis: a prospective study. Scand J Gastroenterol. 2017 Dec 21:1-6. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29262738>

Wickbom, A, Nyhlin, N, Montgomery, SM, Bohr, J, Tysk, C : Family history, comorbidity, smoking and other risk factors in microscopic colitis: a case-control study. Eur J Gastroenterol Hepatol. 2017 May;29(5):587-594. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28350750>

Ding, YP, Ladeiro, Y, Morilla, I, Bouhnik, Y, Marah, A, Zaag, H, Cazals-Hatem, D, Seksik, P, Daniel, F, Hugot, JP, Wainrib, G, Treton, X, Ogier-Denis, E. Integrative network-based analysis of colonic detoxification gene expression in Ulcerative Colitis according to smoking status. J Crohns Colitis, Oct 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27702825>

To, N, Ford, AC, Gracie, DJ. Systematic review with meta-analysis: the effect of tobacco smoking on the natural history of ulcerative colitis. Aliment Pharmacol Ther, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27193202>

Lunney, PC et al. Smoking prevalence and its influence on disease course and surgery in Crohn's disease and ulcerative colitis. Alimentary Pharmacology & Therapeutics, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25968332>

Ueno A, Jijon H, Li J, and Ghosh S. Reply to does cigarette smoke extract really bring out different effects on dendritic cells from ulcerative colitis and Crohn's disease? Inflamm Bowel Dis, 2014; 20(12):E26-7. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25397896>

Iskandar, H, Greer, JB, Schraut, WH, Regueiro, MD, Davis, PL, Hartman, DJ, et al. IBD LIVE case series-case 1: smoking, a controversial but effective treatment for ulcerative colitis. *Inflamm Bowel Dis*, 2014. 20(10), 1696-1701. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25167214>

Ueno, A, Jijon, H, Li, J, Ghosh, S. Reply to does cigarette smoke extract really bring out different effects on dendritic cells from ulcerative colitis and Crohn's disease? *Inflamm Bowel Dis*, 2014. 20(12), E26-27. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25397896>

3.28.2 Parkinson's disease

Bouhadoun, S, Zolfaghari, S, Delva, A, Pelletier, A, Kouchache, T, Dagher, A et al . (2024). Exploring the Nicotine-Parkinson's disease link - Insights from the UK Biobank. *Parkinsonism Relat Disord*, 129, 107156. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39418858>

Goodheart, AE, & Gomperts, SN. (2024). The association between cigarette smoking and dementia with Lewy bodies. *Parkinsonism Relat Disord*, 128, 107133. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39276722>

Rose, KN, Zorlu, M, Fassini, A, Lee, H, Cai, W, Xue, X et al. (2024). Neuroprotection of low dose carbon monoxide in Parkinson's disease models commensurate with the reduced risk of Parkinson's among smokers. *NPJ Parkinsons Dis*, 10(1), 152. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39174550>

Zhang, X, Zhu, Z, Zhu, L, Guan, Y, Zhu, Z, Liu, B et al. (2024). Integrating Mendelian Randomization with Single-cell Sequencing Data Reveals the Causal Effect and Related Mechanisms of Smoking on Parkinson's Disease. *Nicotine Tob Res*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39030896>

di Biase, L, Pecoraro, PM, Carbone, SP, Alessi, F, & Di Lazzaro, V. (2024). Smoking exposure and Parkinson's disease: A UK Brain Bank pathology-validated case-control study. *Parkinsonism Relat Disord*, 125, 107022. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38865837>

Guo, Q, Wang, Y, Yu, L, Guan, L, Ji, X, Li, X et al. (2024). Nicotine restores olfactory function by activation of prok2R/Akt/FoxO3a axis in Parkinson's disease. *J Transl Med*, 22(1), 350. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38609979>

Shen, YX, Lee, PS, Teng, MC, Huang, JH, Wang, CC, & Fan, HF. (2024). Influence of Cigarette Aerosol in Alpha-Synuclein Oligomerization and Cell Viability in SH-SY5Y: Implications for Parkinson's Disease. *ACS Chem Neurosci*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38483468>

Ullah, I, Uddin, S, Zhao, L, Wang, X, & Li, H. (2024). Autophagy and UPS pathway contribute to nicotine-induced protection effect in Parkinson's disease. *Exp Brain Res*, 242(4), 971-986. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38430248>

Wahbeh, F, Restifo, D, Laws, S, Pawar, A, & Parikh, NS. (2024). Impact of tobacco smoking on disease-specific outcomes in common neurological disorders: A scoping review. *J Clin Neurosci*, 122, 10-18. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38428126>

Charbonneau, PF, & Damier, P. (2023). Nicotine in Parkinson's Disease - a Therapeutic Track Gone up in Smoke? *NEJM Evid*, 2(9), EVIDe2300167. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38320201>

Oertel, WH, Muller, HH, Unger, MM, Schade-Brittinger, C, Balthasar, K, Articus, K et al. (2023). Transdermal Nicotine Treatment and Progression of Early Parkinson's Disease. *NEJM Evid*, 2(9), EVIDoA2200311. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38320207>

Rose, KN, Schwarzschild, MA, & Gomperts, SN. (2024). Clearing the Smoke: What Protects Smokers from Parkinson's Disease? *Mov Disord*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38226487>

Fares, MB, Alijevic, O, Johne, S, Overk, C, Hashimoto, M, Kondylis, A et al. (2023). Nicotine-mediated effects in neuronal and mouse models of synucleinopathy. *Front Neurosci*, 17, 1239009. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37719154>

Jung, SY, Chun, S, Cho, EB, Han, K, Yoo, J, Yeo, Y et al. (2023). Changes in smoking, alcohol consumption, and the risk of Parkinson's disease. *Front Aging Neurosci*, 15, 1223310. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37771519>

Yoon, SY, Park, YH, Lee, SC, Suh, JH, Yang, SN, Kang, DR, & Kim, YW. (2023). Association between smoking and all-cause mortality in Parkinson's disease. *NPJ Parkinsons Dis*, 9(1), 59. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37037842>

Biswas, S, & Bagchi, A. (2022). Study of the Effects of Nicotine and Caffeine for the Treatment of Parkinson's Disease. *Appl Biochem Biotechnol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36121634>

Domenighetti, C, Douillard, V, Sugier, PE, Sreelatha, AAK, Schulte, C, Grover, S et al (2022). The Interaction between HLA-DRB1 and Smoking in Parkinson's Disease Revisited. *Mov Disord*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35810454>

Gu, Q, Liu, X, Zeng, Q, Guan, X, Zhou, C, Guo, T et al. (2022). The protective role of cigarette smoking against Parkinson's disease via moderation of the interaction between iron deposition in the nigrostriatal pathway and clinical symptoms. *Quant Imaging Med Surg*, 12(7), 3603-3624. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35782263>

Mannett, B. T., Capt, B. C., Pearman, K., Buhlman, L. M., VandenBrooks, J. M., & Call, G. B. (2022). Nicotine Has a Therapeutic Window of Effectiveness in a Drosophila melanogaster Model of Parkinson's Disease. *Parkinsons Dis*, 2022, 9291077. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35844833>

Nie, J, Liu, C, Yu, C, Guo, Y, Pei, P, Yang, L et al. (2022). Independent and Joint Associations of Tea Consumption and Smoking with Parkinson's Disease Risk in Chinese Adults. *J Parkinsons Dis*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35527564>

Rosas, I, Moris, G, Coto, E, Blazquez-Estrada, M, Suarez, E, Garcia-Fernandez, C et al. (2022). Smoking is associated with age at disease onset in Parkinson's disease. *Parkinsonism Relat Disord*, 97, 79-83. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35364453>

- Wang, C, Zhou, C, Guo, T, Huang, P, Xu, X, & Zhang, M. (2022). Association between cigarette smoking and Parkinson's disease: a neuroimaging study. *Ther Adv Neurol Disord*, 15, 17562864221092566. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35464739>
- Gabbert, C, Konig, IR, Luth, T, Kolms, B, Kasten, M, Vollstedt, EJ et al. (2022). Coffee, smoking and aspirin are associated with age at onset in idiopathic Parkinson's disease. *J Neurol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35235000>
- Lehrer, S, & Rheinstein, PH. (2022). Constipation and Cigarette Smoking Are Independent Influences for Parkinson's Disease. *Cureus*, 14(1), e21689. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35145822>
- Ritz, BR, & Kusters, CDJ. (2022). The Promise of Mendelian Randomization in Parkinson's Disease: Has the Smoke Cleared Yet for Smoking and Parkinson's Disease Risk? *J Parkinsons Dis*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35213390>
- Domenighetti, C, Sugier, PE, Sreelatha, AAK, Schulte, C, Grover, S, Mohamed, O et al. (2021). Mendelian Randomisation Study of Smoking, Alcohol, and Coffee Drinking in Relation to Parkinson's Disease. *J Parkinsons Dis*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34633332>
- Dominguez-Baleon, C, Ong, JS, Scherzer, CR, Renteria, ME, & Dong, X. (2021). Understanding the effect of smoking and drinking behavior on Parkinson's disease risk: a Mendelian randomization study. *Sci Rep*, 11(1), 13980. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34234189>
- Neshige, S, Ohshita, T, Neshige, R, & Maruyama, H. (2021). Influence of current and previous smoking on current phenotype in Parkinson's disease. *J Neurol Sci*, 427, 117534. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34130061>
- Terravecchia, C, Mostile, G, Rascuna, C, Arabia, G, Barone, P, Marconi, R et al. (2021). Does an association between cigarette smoking and Parkinson's Disease-related psychosis exist? Insights from a large non-demented cohort. *J Neurol Sci*, 427, 117509. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34082149>
- Sieurin, J, Zhan, Y, Pedersen, NL, & Wirdefeldt, K. (2021). Neuroticism, Smoking, and the Risk of Parkinson's Disease. *J Parkinsons Dis*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34024779>
- Cheng, Y, & Wang, YJ. (2020). Tobacco smoking and the reduced risk of Parkinson disease: A puzzle of 60 years. *Neurology*, 94(20), 860-861. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32371449>
- Kim, R, Yoo, D, Jung, YJ, Han, K, & Lee, JY. (2019). Sex differences in smoking, alcohol consumption, and risk of Parkinson's disease: A nationwide cohort study. *Parkinsonism Relat Disord*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31882374>
- Guttuso, T, Jr. (2019). High lithium levels in tobacco may account for reduced incidences of both Parkinson's disease and melanoma in smokers through enhanced beta-catenin-mediated activity. *Med Hypotheses*, 131, 109302. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31443765>

Jackson, L, Coon, EA, Ahlskog, JE, Bower, JH, Sandroni, P, Benarroch, EE et al. (2019). Earlier age of onset in multiple system atrophy with smoking and heavy alcohol use. *Parkinsonism Relat Disord*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31327626>

Chuang, YH, Paul, KC, Sinsheimer, JS, Bronstein, JM, Bordelon, YM, & Ritz, B. Genetic variants in nicotinic receptors and smoking cessation in Parkinson's disease. *Parkinsonism Relat Disord*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30777653>

Guttuso, T, Russak, E, De Blanco, MT, & Ramanathan, M. Could high lithium levels in tobacco contribute to reduced risk of Parkinson's disease in smokers? *J Neurol Sci*, 2019. 397, 179-180. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30641248>

Gallo, V, Vineis, P, Cancellieri, M, Chiodini, P, Barker, RA, Brayne, C et al. Exploring causality of the association between smoking and Parkinson's disease. *Int J Epidemiol*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30462234>

Quik, M, Boyd, JT, Bordia, T, Perez, X. Potential Therapeutic Application for Nicotinic Receptor Drugs in Movement Disorders. *Nicotine Tob Res*, Aug 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30137517>

Lee, PC, Ahmed, I, Loriot, MA, Mulot, C, Paul, KC, Bronstein, JM, Ritz, B, Elbaz, A. Smoking and Parkinson disease: Evidence for gene-by-smoking interactions. *Neurology*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29352099>

Chuang, YH, Lee, PC, Vlaar, T, Mulot, C, Loriot, MA, Hansen, J, Lill, CM, Ritz, B, Elbaz, A. Pooled analysis of the HLA-DRB1 by smoking interaction in Parkinson disease. *Ann Neurol*, 2017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28981958>

Gigante, AF, Martino, T, Iliceto, G, Defazio, G. Smoking and age-at-onset of both motor and non-motor symptoms in Parkinson's disease. *Parkinsonism Relat Disord*. 2017 Sep 29. pii: S1353-8020(17)30354-1. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28988683>

Tanaka, K, Miyake, Y, Fukushima, W, Kiyoohara, C, Sasaki, S, Tsuboi, Y et al. Vitamin D receptor gene polymorphisms, smoking, and risk of sporadic Parkinson's disease in Japan. *Neurosci Lett*, 2017. 643, 97-102. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28216333>

Lee, Y, Oh, JS, Chung, SJ, Chung, SJ, Kim, SJ, Nam, CM, Lee, PH, Kim, JS, Sohn, YH. Does smoking impact dopamine neuronal loss in de novo Parkinson disease? *Ann Neurol*, 2017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29059491>

Ma, C, Liu, Y, Neumann, S, Gao, X. Nicotine from cigarette smoking and diet and Parkinson disease: a review. *Transl Neurodegener*. 2017 Jul 2;6:18. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28680589>

Liu, Z, Roosaar, A, Axell, T, Ye, W. Tobacco Use, Oral Health, and Risk of Parkinson's Disease. *Am J Epidemiol*. 2017 Apr 1;185(7):538-545. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28338925>

Costa-Mallen, P, Zabetian, CP, Hu, SC, Agarwal, P, Yearout, D, Checkoway, H. Smoking and haptoglobin phenotype modulate serum ferritin and haptoglobin levels in Parkinson disease. *J Neural Transm (Vienna)*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27349967>

Miyake, Y, Tanaka, K, Fukushima, W, Kiyohara, C, Sasaki, S, Tsuboi, Y, Oeda, T, Shimada, H, Kawamura, N, Sakae, N et al. PARK16 polymorphisms, interaction with smoking, and sporadic Parkinson's disease in Japan. *J Neurol Sci*, 2016;362:47-52. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26944116>

Cakmak, YO et al. Coffee consumption, smoking, and Parkinson's disease? The beneficial role of hydrogen sulphide. *Mov Disord*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26848709>

Gigante, AF et al. Smoking in patients with Parkinson's disease: preliminary striatal DaT-SPECT findings. *Acta Neurol Scand*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26659996>

Moccia, M et al. Non-motor correlates of smoking habits in de novo Parkinson's Disease. *J Parkinsons Dis*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26485426>

Doiron, M et al. Smoking history is associated to cognitive impairment in Parkinson's disease. *Aging Ment Health*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26416159>

Costa-Mallen, P et al. Haptoglobin phenotype modifies serum iron levels and the effect of smoking on Parkinson disease risk. *Parkinsonism Relat Disord*, Sep 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26228081>

Li, X et al. Association between cigarette smoking and Parkinson's disease: A meta-analysis. *Arch Gerontol Geriatr*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26272284>

Haglin, L. High serum phosphate concentration as the result of smoking might underlie the lower risk of Parkinson's disease. *Medical Hypotheses*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26206759>

Zhang, LM et al. Association of CHRNA4 gene rs1044396 and rs1044397 polymorphisms with Parkinson's disease symptoms and smoking. *Genetics and molecular research*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26125703>

Zhang, Y et al. A meta-analysis on relationship of MAO-B intron 13 polymorphisms, interactions with smoking/COMT H158L polymorphisms with the risk of PD. *The International Journal of Neuroscience*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26000819>

Sari, Y, Khalil, A. Monoamine oxidase inhibitors extracted from tobacco smoke as neuroprotective factors for potential treatment of parkinson's disease. *CNS & neurological disorders drug targets*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25808895>

Moccia M, Erro R, Picillo M, Vassallo E, Vitale C, et al. Quitting smoking: An early non-motor feature of Parkinson's disease? *Parkinsonism Relat Disord*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25547948>

Sharer JD, Leon-Sarmiento FE, Morley JF, Weintraub D, and Doty RL. Olfactory dysfunction in Parkinson's disease: Positive effect of cigarette smoking. *Mov Disord*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25545729>

Ritz B, Lee PC, Lassen CF, and Arah OA. Parkinson disease and smoking revisited: Ease of quitting is an early sign of the disease. *Neurology*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25217056>

Bar-Shira, A, Gana-Weisz, M, Gan-Or, Z, Giladi, E, Giladi, N, Orr-Utreger, A. CHRN3 c.-57A>G functional promoter change affects Parkinson's disease and smoking. *Neurobiol Aging*, 2014. 35(9), 2179 e2171-2176. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24731518>

Derkinderen, P, Shannon, KM, Brundin, P. Gut feelings about smoking and coffee in Parkinson's disease. *Mov Disord*, 2014. 29(8), 976-979. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24753353>

Lucassen, EB, Sterling, NW, Lee, EY, Chen, H, Lewis, MM, Kong, L, Huang, X. History of smoking and olfaction in Parkinson's disease. *Mov Disord*, 2014. 29(8), 1069-1074. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24833119>

Moccia, M, Picillo, M, Erro, R, Vitale, C, Amboni, M, Palladino, R et al. How does smoking affect olfaction in Parkinson's disease? *J Neurol Sci*, 2014. 340(1-2), 215-217. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24655736>

van der Mark, M, Nijssen, PC, Vlaanderen, J., Huss, A, Mullenens, W M, Sas, AM et al. A case-control study of the protective effect of alcohol, coffee, and cigarette consumption on Parkinson disease risk: time-since-cessation modifies the effect of tobacco smoking. *PLoS ONE*, 2014. 9(4), e95297. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24788751>

3.28.3 Endometrial cancer and uterine fibroids

Mazidimoradi, A, Momenimovahed, Z, Khalajinia, Z, Allahqoli, L, Salehiniya, H, & Alkatout, I. (2024). The global incidence, mortality, and burden of uterine cancer in 2019 and correlation with SDI, tobacco, dietary risks, and metabolic risk factors: An ecological study. *Health Sci Rep*, 7(1), e1835. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38274134>

Dimou, N, Omiyale, W, Biessy, C, Viallon, V, Kaaks, R, O'Mara, TA et al. (2022). Cigarette Smoking and Endometrial Cancer Risk: Observational and Mendelian Randomization Analyses. *Cancer Epidemiol Biomarkers Prev*, OF1-OF10. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35900194>

3.28.4 Pre-eclampsia (hypertension in pregnancy)

Ekblad, MO, Gissler, M, & Korhonen, PE. (2022). New theory about the pathophysiology of preeclampsia derived from the paradox of positive effects of maternal smoking. *J Hypertens*, 40(6), 1223-1230. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35703884>

Holme, JA. Valen, H, Brinchmann, BC, Vist, GE, Grimsrud, TK, Becher, R et al. (2022). Polycyclic aromatic hydrocarbons (PAHs) may explain the paradoxical effects of cigarette use on preeclampsia (PE). *Toxicology*, 473, 153206. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35550401>

Wang, J, Yang, W, Xiao, W, & Cao, S. (2021). The association between smoking during pregnancy and hypertensive disorders of pregnancy: A systematic review and meta-analysis. *International Journal of Gynaecology and Obstetrics*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33864264>

Lewandowska, M, & Wieckowska, B. (2020). The Influence of Various Smoking Categories on The Risk of Gestational Hypertension and Pre-Eclampsia. *J Clin Med*, 9(6). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32512866>

Machaalani, R, Ghazavi, E, Hinton, T, Makris, A, & Hennessy, A. Immunohistochemical expression of the nicotinic acetylcholine receptor (nAChR) subunits in the human placenta, and effects of cigarette smoking and preeclampsia. *Placenta*, 2018. 71, 16-23. Available from: [https://www.placentajournal.org/article/S0143-4004\(18\)30275-3/fulltext](https://www.placentajournal.org/article/S0143-4004(18)30275-3/fulltext)

Weinberg, CR, Shi, M, Basso, O, DeRoo, LA, Harmon, Q, Wilcox, AJ, Skjaerven, R. Season of Conception, Smoking, and Preeclampsia in Norway. *Environ Health Perspect*. 2017 Jun 29;125(6):067022. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28669933>

Freitas, SRS, Alvim, RO. Smoking and Blood Pressure Phenotypes: New Perspective for an Old Problem. *Am J Hypertens*. 2017 Jun 1;30(6):554-555. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28369308>

Kim, BJ, Han, JM, Kang, JG, Kim, BS, Kang, JH. Association between cotinine-verified smoking status and hypertension in 167,868 Korean adults. *Blood Press*. 2017 Jun 23:1-8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28643526>

Jaaskelainen, T, Suomalainen-Konig, S, Hamalainen, E, Pulkki, K, Romppanen, J, Heinonen, S, Laivuori, H. Angiogenic profile and smoking in the Finnish Genetics of Pre-Eclampsia Consortium (FINNPEC) cohort. *Ann Med*, 2017. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28537456>

Alpoim, PN, Godoi, LC, Pinheiro, MB, Freitas, LG, Carvalho, MD, Dusse, LM. The unexpected beneficial role of smoking in preeclampsia. *Clin Chim Acta*. 2016 May 31;459:105-108. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27259465>

Gudnadottir, TA, Bateman, BT, Hernandez-Diaz, S, Luque-Fernandez, MA, Valdimarsdottir, U, Zoega, H. Body mass index, smoking and hypertensive disorders during pregnancy: a population based case-control study. *PLoS One*. 2016;11(3):e0152187. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27010734>

Luque-Fernandez, MA, Zoega, H, Valdimarsdottir, U, Williams, MA. Deconstructing the smoking-preeclampsia paradox through a counterfactual framework. *Eur J Epidemiol*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26975379>

Wei, J et al. Cigarette smoking during pregnancy and preeclampsia risk: a systematic review and meta-analysis of prospective studies. *Oncotarget*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26498356>

Kawashima, A et al. Maternal smoking history enhances the expression of placental growth factor in invasive trophoblasts at early gestation despite cessation of smoking. PLoS One, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26214510>

Lisonkova, S, Joseph, KS. Left truncation bias as a potential explanation for the protective effect of smoking on preeclampsia. Epidemiology, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25695352>

Vinnars, MT et al. Placental pathology in smoking and non-smoking preeclamptic women. The Journal of Maternal-fetal & Neonatal Medicine, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25716079>

Tandberg, A, Klungsoyr, K, Romundstad, L, Skjaerven, R. Pre-eclampsia and assisted reproductive technologies: consequences of advanced maternal age, interbirth intervals, new partner and smoking habits. BJOG, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25163925>

3.28.5 Cognitive performance

Almeida, NL, Rodrigues, SJ, Goncalves, LM, Silverstein, SM, Sousa, IC, Gomes, GH et al. (2020). Opposite effects of smoking and nicotine intake on cognition. *Psychiatry Res*, 293, 113357. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32823200>

Alimohammadi, I, Ahmadi Kanrash, F, Abolghasemi, J, Shahbazi, A, Afrazandeh, H, & Rahmani, K. (2019). Combined Effect of Noise and Smoking on the Cognitive Performance of Automotive Industry Workers. *Basic Clin Neurosci*, 10(5), 515-526. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32284840>

Hoth, KF, Moreau, KL, Weinberger, HD, Holm, KE, Meschede, K, Crapo, JD et al (2020). Carotid Artery Stiffness is Associated With Cognitive Performance in Former Smokers With and Without Chronic Obstructive Pulmonary Disease. *J Am Heart Assoc*, e014862. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32338117>

Hajek, P, Pruzlj, D, & Myers Smith, K. (2019). Smoking and Cognitive Performance: The Chicken and Egg Problem. *Am J Psychiatry*, 176(7), 575. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31256618>

Roberts, NJ, Oravecz, Z, Sprague, BN, & Geier, CF. (2019). A Novel Hierarchical LATER Process Model: Evaluating Latent Sources of Variation in Reaction Times of Adult Daily Smokers. *Front Psychiatry*, 10, 474. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31333517>

Gil, SM, Methereate, R. Enhanced Sensory-Cognitive Processing by Activation of Nicotinic Acetylcholine Receptors. *Nicotine Tob Res*, Aug 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30137439>

Hoskin, JL, Al-Hasan, Y, Sabbagh, MN. Nicotinic Acetylcholine Receptor Agonists for the Treatment of Alzheimer's Dementia: An Update. *Nicotine Tob Res*, Aug 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30137524>

Hu, P, Huang, L, Zhou, S, Shi, Q, Xiao, D, Wang, C. Smoking status and cognitive performance among vocational school students in Beijing, China. *Respir Med*. 2018 Feb;135:8-11. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29414456>

Schuster, RM et al. Ecological momentary assessment of working memory under conditions of simultaneous marijuana and tobacco use. *Addiction*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26857917>

Grundey, J et al. Double dissociation of working memory and attentional processes in smokers and non-smokers with and without nicotine. *Psychopharmacology*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25721074>

Vafaei MS, Gjedde A, Imamirad N, Vang K, Chakravarty MM, et al. Smoking normalizes cerebral blood flow and oxygen consumption after 12-hour abstention. *J Cereb Blood Flow Metab*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25605288>

Breckel, TP, Thiel, CM, Giessing, C. The efficiency of functional brain networks does not differ between smokers and non-smokers. *Psychiatry Res*, 2013. 214(3), 349-356. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24144504>

Tsiora, S, Potter, DD, Kyle, JS, Maxwell, AM. The effect of withdrawal and intake of nicotine on smokers' ability to ignore distractors in a number parity decision task. *Psychiatry J*, 2013, 823158. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24236286>

3.28.6 Psychiatric symptoms?

Tregellas, JR, Wylie, KP. Alpha7 Nicotinic Receptors as Therapeutic Targets in Schizophrenia. *Nicotine Tob Res*, Aug 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30137618>

Fernandes, TMP, de Andrade, MJO, Santana, JB, Nogueira, R, Dos Santos, NA. Tobacco Use Decreases Visual Sensitivity in Schizophrenia. *Front Psychol*. 2018 Mar 6;9:288. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29559947>

Al-Halabi, S, Fernandez-Artamendi, S, Diaz-Mesa, EM, Garcia-Alvarez, L, Florez, G, Martinez-Santamaria, E, Arrojo, M, Saiz, PA, Garcia-Portilla, MP, Bobes, J. Tobacco and cognitive performance in schizophrenia patients: the design of the COGNICO study. *Adicciones*. 2016 Jun 14:724. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27391843>

Dickerson, F, Adamos, MB, Katsafanas, E, Khushalani, S, Origoni, A, Savage, CL, Schroeder, J, Schweinfurth, LA, Stallings, C, Sweeney, K, Yolken, R. The association among smoking, HSV-1 exposure, and cognitive functioning in schizophrenia, bipolar disorder, and non-psychiatric controls. *Schizophr Res*. 2016 Jun 1. pii: S0920-9964(16)30246-8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27262384>

An, HM, Tan, YL, Tan, SP, Shi, J, Wang, ZR, Yang, FD, Huang, XF, Soars, JC, Kosten, TR, Zhang, XY. Smoking and serum lipid profiles in schizophrenia. *Neurosci Bull*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27017941>

Caldirola, D, Cavedini, P, Riva, A, Di Chiaro, NV, Perna, G. Cigarette smoking has no pro-cognitive effect in subjects with obsessive-compulsive disorder: A preliminary study. Psychiatr Danub, 2016;28(1):86-90. Available from: <https://europepmc.org/abstract/MED/26938828>

Koyanagi, A, Stickley, A, Haro, JM. Psychotic symptoms and smoking in 44 countries. Acta Psychiatr Scand, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27028367>

Nunez, C et al. Effects of caffeine intake and smoking on neurocognition in schizophrenia. Psychiatry Res, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26614014>

Choi, D et al. Does cigarette smoking relieve stress? Evidence from the event-related potential (ERP). Int J Psychophysiol, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26497442>

Brunelin, J et al. Nicotine smoking prevents the effects of frontotemporal transcranial Direct Current Stimulation (tDCS) in hallucinating patients with schizophrenia. Brain Stimul, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26316227>

Mathew, AR et al. Post-traumatic stress disorder symptoms, underlying affective vulnerabilities, and smoking for affect regulation. The American Journal on Addictions, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25823634>

Keten, HS et al. Evaluation of adult attention deficit hyperactivity disorder in smokers and Maras powder users. Nordic Journal of Psychiatry, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25762109>

Manzella, F et al. Smoking in schizophrenic patients: A critique of the self-medication hypothesis. World journal of psychiatry, 2015. Mar 31, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25815253>

Oliveira RM, Siqueira Junior AC, and Furegato AR. The meaning of smoking for patients with mental disorder. Issues Ment Health Nurs, 2015; 36(2):127-34. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25625713>

Ahlers, E, Hahn, E, Ta, TM, Goudarzi, E, Dettling, M, Neuhaus, AH. Smoking improves divided attention in schizophrenia. Psychopharmacology (Berl), 2014. 231(19), 3871-3877. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24668036>

Boggs, DL, Carlson, J, Cortes-Briones, J, Krystal, JH, D'Souza, DCGoing up in smoke? A review of nAChRs-based treatment strategies for improving cognition in schizophrenia. Curr Pharm Des, 2014. 20(31), 5077-5092. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24345265>

Esterlis, I, Ranganathan, M, Bois, F, Pittman, B, Picciotto, MR, Shearer, L et al. In vivo evidence for beta2 nicotinic acetylcholine receptor subunit upregulation in smokers as compared with nonsmokers with schizophrenia. Biol Psychiatry, 2014. 76(6), 495-502. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24360979>

Mitchell, JT, Dennis, MF, English, JS, Dennis, PA, Brightwood, A, Beckham, JC, Kollins, SH. Ecological momentary assessment of antecedents and consequences of smoking in adults with attention-

deficit/hyperactivity disorder. *Subst Use Misuse*, 2014. 49(11), 1446-1456. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24827866>

Mitchell, JT, McIntyre, EM, McClernon, FJ, Kollins, SH. Smoking motivation in adults with attention-deficit/hyperactivity disorder using the Wisconsin inventory of smoking dependence motives.

Nicotine Tob Res, 2014. 16(1), 120-125. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/24078759>

Freeman, TP, Stone, JM, Orgaz, B, Noronha, LA, Minchin, SL, Curran, HV. Tobacco smoking in schizophrenia: investigating the role of incentive salience. *Psychol Med*, 2013. 1-9. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24176189>

Quisenjaerts, C, Morrens, M, Hulstijn, W, de Boer, P, Timmers, M, Sabbe, B, de Brujin, ER. Acute nicotine improves social decision-making in non-smoking but not in smoking schizophrenia patients. *Front Neurosci*, 2013. 7, 197. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24198754>

Punnoose, S, Belgamwar, MR. (2012). Nicotine for schizophrenia. The Cochrane Library(Issue 1, Art. No.: CD004838). Available from: http://www.cochrane.org/CD004838/SCHIZ_nicotine-for-schizophrenia

3.28.7 Thyroid cancer

Yeo, Y, Shin, DW, Han, K, Kim, D Kim, TH, Chun, S et al. (2022). Smoking, Alcohol Consumption, and the Risk of Thyroid Cancer: A Population-Based Korean Cohort Study of 10 Million People. *Thyroid*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35236095>

Rahman, ST, Pandeya, N, Neale, RE McLeod, DSA, Baade, PD, Youl, PH et al. (2021). Tobacco smoking and risk of thyroid cancer according to BRAF (V600E) mutational subtypes. *Clin Endocrinol (Oxf)*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34170568>

Yeo, Y, Han, K, Shin, DW, Kim, D, Jeong, SM, Chun, S et al. (2021). Changes in Smoking, Alcohol Consumption, and the Risk of Thyroid Cancer: A Population-Based Korean Cohort Study. *Cancers (Basel)*, 13(10). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34066228>

Yeo, Y, Shin, DW, Han, KD, Kim, D, Kim, TH, Chun, S et al (2020). Smoking, alcohol consumption, and the risk of thyroid cancer: a population-based Korean cohort study of 10 million people. *Thyroid*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32143548>

Kim, KN, Hwang, Y, Kim, K, Lee, KE, Park, YJ, Choi, JY et al. Active and Passive Smoking, BRAFV600E Mutation Status, and the Risk of Papillary Thyroid Cancer: A Large-Scale Case-Control and Case-Only Study. *Cancer Res Treat*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30786705>

Cho, A, Chang, Y, Ahn, J, Shin, H, Ryu, S. Cigarette smoking and thyroid cancer risk: a cohort study. *Br J Cancer*, Aug 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30111870>

Cho, YA, Kim, J. Thyroid cancer risk and smoking status: a meta-analysis. *Cancer Causes Control*, 2014. 25(9), 1187-1195. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24981099>

3.28.8 Skin cancer

Arafa, A, Mostafa, A, Navarini, AA, & Dong, JY. (2020). The association between smoking and risk of skin cancer: a meta-analysis of cohort studies. *Cancer Causes Control*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32458137>

Thompson, JF, & Friedman, EB. (2019). The intriguing association between smoking and reduced melanoma risk. *Br J Dermatol*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31872423>

Stadler, R. (2019). The effect of smoking in melanoma outcome still remains an enigma. *J Eur Acad Dermatol Venereol*, 33(12), 2219-2220. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31779040>

Gibson, JAG, Dobbs, TD, Griffiths, R, Song, J, Akbari, A, Whitaker, S et al (2019). The Association of Smoking and Socioeconomic status on Cutaneous Melanoma: a population based, data linkage, case-control study. *Br J Dermatol*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31529485>

Sondermeijer, L, Lamboo, LGE de Waal, AC, Galesloot, TE, Kiemeney, L, van Rossum, M, & Aben, K. H. (2019). Cigarette Smoking and the Risk of Cutaneous Melanoma: A Case-Control Study. *Dermatology*, 1-9. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31505496>

Hardie, CM, Elliott, F, Chan, M, Rogers, Z, Bishop, DT, & Newton-Bishop, JA. (2019). Environmental exposures such as smoking and low vitamin D are predictive of poor outcome in cutaneous melanoma rather than other deprivation measures. *J Invest Dermatol*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31425707>

Pirie, K, Beral, V, Heath, AK, Green, J, Reeves, GK, Peto, R, McBride, P, Olsen, CM, Green, AC. Heterogeneous relationships of squamous and basal cell carcinomas of the skin with smoking: the UK Million Women Study and meta-analysis of prospective studies. *Br J Cancer*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29899391>

Dusingize, JC, Olsen, CM, Pandeya, N, Thompson, BS, Webb, PM, Green, AC, Neale, RE, Whiteman, DC. Smoking and cutaneous melanoma: findings from The QSkin Sun and Health cohort study. *Cancer Epidemiol Biomarkers Prev*. 2018 May 22. pii: 1055-9965.EPI-17-1056. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29789324>

Desrichard, A, Kuo, F, Chowell, D, Lee, KW, Riaz, N, Wong, RJ, Chan, TA, Morris, LGT. Tobacco Smoking-Associated Alterations in the Immune Microenvironment of Squamous Cell Carcinomas. *J Natl Cancer Inst*, Apr 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29659925>

Cauci, S, Maione, V, Buligan, C, Linussio, M, Serraino, D, Stinco, G. BsmI (rs1544410) and FokI (rs2228570) vitamin D receptor polymorphisms, smoking, and body mass index as risk factors of cutaneous malignant melanoma in northeast Italy. *Cancer Biol Med*. 2017 Aug;14(3):302-318. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28884047>

Wakkee, M. Smokers versus Smoking: Is There Detection Bias for Keratinocyte Carcinomas? *J Invest Dermatol*. 2017 Aug;137(8):1614-1616. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28735614>

Dusingize, JC, Olsen, CM, Pandeya, NP, Subramaniam, P, Thompson, BS, Neale, RE, Green, AC, Whiteman, DC. Cigarette Smoking and the Risks of Basal Cell Carcinoma and Squamous Cell

Carcinoma. J Invest Dermatol. 2017 Apr 13. pii: S0022-202X(17)31412-4. Available from:
<http://www.ncbi.nlm.nih.gov/pubmed/28414022>

Jones, MS, Jones, PC, Stern, SL, Elashoff, D, Hoon, DS, Thompson, J, Mozzillo, N, Nieweg, OE, Noyes, D, Hoekstra, HJ, Zager, JS, Roses, DF, Testori, A, Coventry, BJ, Smithers, MB, Andtbacka, R, Agnese, D, Schultz, E, Hsueh, EC, Kelley, M, Schneebaum, S, Jacobs, L, Bowles, T, Kashani-Sabet, M, Johnson, D, Faries, MB. The Impact of Smoking on Sentinel Node Metastasis of Primary Cutaneous Melanoma. Ann Surg Oncol, 2017. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28224364>

Wu, W, Liu, H, Song, F, Chen, LS, Kraft, P, Wei, Q, Han, J. Associations between smoking behavior-related alleles and the risk of melanoma. Oncotarget, 2016. Available from:
<http://www.ncbi.nlm.nih.gov/pubmed/27344179>

Nivia, M et al. Comparative cytomorphometric analysis of oral mucosal cells in normal, tobacco users, oral leukoplakia and oral squamous cell carcinoma. J Cytol, Oct –Dec 2015. Available from:
<http://www.ncbi.nlm.nih.gov/pubmed/26811574>

Li, Z et al. Smoking is inversely related to cutaneous malignant melanoma -says results from a meta-analysis. The British Journal of Dermatology, 2015. Available from:
<http://www.ncbi.nlm.nih.gov/pubmed/26134854>

3.28.9 Other possible health 'benefits'

Vega Palma, MI, Klivinyi, C, Lampl, T, Lang-Illievich, K, Bornemann-Cimenti, H, & Szilagy, IS. (2022). The Effect of Smoking Cessation on Acute Pain: A Systematic Review. [MS Top Pick]. *Pain Ther.* Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36478326>

Grigorian, A, Kuza, CM, Delaplain, PT, Singh, M, Dominguez, OH, Vu, T et al. (2022). Cigarette Smoking is Associated with Decreased Mortality in Critically Ill Trauma Patients. *Shock.* Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35066513>

Gebreegziabher, EA, Oldenburg, CE, Shibuski, SC, Baer, AN, Jordan, RC, Rose-Nussbaumer, JR et al. (2021). Associations Between Smoking and Primary Sjogren Syndrome Classification Using the Sjogren's International Collaborative Clinical Alliance Cohort. *ACR Open Rheumatol.* Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34889071>

Kawada, T. (2021). Smoking, Obesity, and Risk of Primary Sjogren Syndrome. *J Rheumatol.* Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34526394>

Tseng, FS, Deng, X Ong, YL, Li, HH, & Tan, EK. (2020). Multiple System Atrophy (MSA) and smoking: a meta-analysis and mechanistic insights. *Aging (Albany NY)*, 12(21), 21959-21970. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33161394>

Berlin, I, & Tonstad, S. (2019). It's time to bury the "Smoker's Paradox". *Nicotine Tob Res.* Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31231769>

Wijarnpreecha, K, Lou, S, Panjawatanan, P, Cheungpasitporn, W, Pungpapong, S, Lukens, FJ et al. Cigarette smoking and risk of celiac disease: A systematic review and meta-analysis. United

European Gastroenterol J, 6(9), 1285-1293. Available from:
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6206527/pdf/10.1177_2050640618786790.pdf

Wittmann, F, Turkcan, A, Baranyi, U, Eichmair, E, Laufer, G, Bernhard, D, Messner, B. To Be Or Not to Be: the "Smoker's Paradox" - An in-Vitro Study. Cell Physiol Biochem. 2018;48(4):1638-1651. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30077999>

Beatty, JA, Majumdar, SR, Tyrrell, GJ, Marrie, TJ, Eurich, DT. Current smoking and reduced mortality in bacteremic pneumococcal pneumonia: a population-based cohort study. Chest. 2016 May 2. pii: S0012-3692(16)48803-3. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27151328>

Lee, YH. Causal association between smoking behavior and the decreased risk of osteoarthritis: a Mendelian randomization. Z Rheumatol. 2018 Jul 5. pii: 10.1007/s00393-018-0505-7. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29974223>

Stone, DU, Fife, D, Brown, M, Earley, KE, Radfar, L, Kaufman, CE, Lewis, DM, Rhodus, NL, Segal, BM, Wallace, DJ, Weisman, MH, Venuturupalli, S, Brennan, MT, Lessard, CJ, Montgomery, CG, Scofield, RH, Sivils, KL, Rasmussen, A. Effect of Tobacco Smoking on The Clinical, Histopathological, and Serological Manifestations of Sjogren's Syndrome. PLoS One. 2017 Feb 6;12(2):e0170249. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28166540>

Xu, C, Lu, HX, Wang, YX, Chen, Y, Yang, SH, Luo, YJ. Association between smoking and the risk of acute mountain sickness: a meta-analysis of observational studies. Mil Med Res. 2016 Dec 8;3:37. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27980800>

Wang, W, Krishnan, E. Cigarette smoking is associated with a reduction in the risk of incident gout: results from the Framingham Heart Study original cohort. Rheumatology (Oxford), 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25086327>

News reports:

Humphrey, Nancy. Study explores nicotine patch to treat mild cognitive impairment. Medical Xpress, 2017. Nov 7, 2017. Available from: <https://medicalxpress.com/news/2017-11-explores-nicotine-patch-mild-cognitive.html>

Mandal, Ananya. Diet, smoking and alcohol main causes of death in OECD countries. Medical News , 2017. Nov 13, 2017. Available from: <https://www.news-medical.net/news/20171113/Diet-smoking-and-alcohol-main-causes-of-death-in-OECD-countries.aspx>

No authors listed. Health at a Glance 2017 - OECD Indicators. OECD Library, 2017. Nov 10, 2017. Available from: http://www.oecd-ilibrary.org/social-issues-migration-health/health-at-a-glance-2017_health_glance-2017-en

3.28.1 *Ulcerative colitis*

No authors listed. European Crohn's and Colitis Organisation – Inflammatory Bowel Diseases (ECCO 2018). PMI Science, 2018. Feb 21, 2018. Available from:
<https://www.pmisceience.com/events/european-crohn%20%99s-and-colitis-organisation-%E2%80%93-inflammatory-bowel-diseases-ecco-2018>

3.28.2 Parkinson's disease

Caspari, Thomas. Smoking may protect against Parkinson's disease – but it's more likely to kill you. The Conversation, 2016. June 20, 2016. Available from: <https://theconversation.com/smoking-may-protect-against-parkinsons-disease-but-its-more-likely-to-kill-you-60815>

Golbe, LI, Cody, RA and Duvoisin, RC. Smoking and Parkinson's disease. Search for a dose-response relationship. Arch Neurol. 1986 Aug;43(8):774-8. Available from:
<http://archneur.jamanetwork.com/article.aspx?articleid=585594>

Whitfield, Tony. Quitting smoking could be responsible for rise in cases of Parkinson's disease. Mirror, 2016. Jun 20, 2016. Available from: <http://www.mirror.co.uk/science/quitting-smoking-could-responsible-rise-8237822>

3.28.5 Cognitive performance

Schuster, RM et al. Ecological momentary assessment of working memory under conditions of simultaneous marijuana and tobacco use. Addiction, 2016. Feb 9, 2016. Available from:
<http://www.ncbi.nlm.nih.gov/pubmed/26857917>

3.28.5 Skin cancer

Poźniak, J, Nsengimana, J, Laye, JP, O'Shea, SJ, Diaz, JMS, Droop, AP et al. Genetic and Environmental Determinants of Immune Response to Cutaneous Melanoma. 2019. Available from:
<http://cancerres.aacrjournals.org/content/canres/early/2019/02/13/0008-5472.CAN-18-2864.full.pdf>