

Tobacco in Australia

Facts & Issues

Relevant news and research

3.16 Smoking and diabetes

Last updated December 2024

Research:	2
3.16.2 Causes of diabetes	19
3.16.3 Diabetic related health problems.....	22
3.16.4 Smoking cessation and diabetes	26
News reports:	27

Research:

Song, ZQ, Chen, YQ, Xuan, CH, Ni, TT, Xu, YP, Lu, XY et al (2024). Effect of smoking behaviour and related blood DNA methylation on visceral adipose tissues. *Diabetes Obes Metab*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39511847>

Wang, W, Volkow, ND, Berger, NA, Davis, PB, Kaelber, DC, & Xu, R. (2024). Association of Semaglutide With Tobacco Use Disorder in Patients With Type 2 Diabetes : Target Trial Emulation Using Real-World Data. *Ann Intern Med*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39074369>

Wei, Y, Edstorp, J, Feychting, M, Andersson, T, & Carlsson, S. (2024). Prenatal and adult exposure to smoking and incidence of type 1 diabetes in children and adults-a nationwide cohort study with a family-based design. *Lancet Reg Health Eur*, 36, 100775. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38019976>

Mi, N, Liu, M, Meng, C, & Fu, F. (2023). Evaluation of the effects of vitamin D deficiency and cigarette smoking on insulin resistance in type 2 diabetes mellitus: A meta-analysis of randomized controlled trials. *Adv Clin Exp Med*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37901991>

Song, J, & Cai, R. (2023). Interaction between smoking during pregnancy and gestational diabetes mellitus and the risk of cesarean delivery: evidence from the National Vital Statistics System 2019. *J Matern Fetal Neonatal Med*, 36(2), 2259048. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37766417>

Campagna, D, Alamo, A, Di Pino, A, Russo, C, Calogero, AE, Purrello, F, & Polosa, R. (2023). Correction: Smoking and diabetes: dangerous liaisons and confusing relationships. *Diabetol Metab Syndr*, 15(1), 117. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37264418>

Kaplan, AK., & Sezgin, Y. (2023). Evaluation of the Relationship Between Smoking and Insulin Resistance: A Case-Control Study. *Cureus*, 15(3), e36684. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36987444>

Titova, OE, Baron, JA, Fall, T, Michaelsson, K, & Larsson, SC. (2023). Swedish Snuff (Snus), Cigarette Smoking, and Risk of Type 2 Diabetes. *Am J Prev Med*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36754744>

Rehberger Likozar, A, & Sebestjen, M. (2022). Smoking and diabetes attenuate beneficial effects of PCSK9 inhibitors on arterial wall properties in patients with very high lipoprotein (a) levels. *Atheroscler Plus*, 50, 1-9. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36643800>

Tramunt, B, Rouland, A, Durlach, V, Verges, B, Thomas, D, Berlin, I, & Clair, C. (2023). Smoking and diabetes: sex and gender aspects and their impact on vascular diseases. *Can J Cardiol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36702239>

Durlach, V, Verges, B, Al-Salameh, A, Bahougne, T, Benzerouk, F, Berlin, I et al. (2022). Smoking and diabetes interplay: A comprehensive review and joint statement. *Diabetes Metab*, 48(6), 101370. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35779852>

Ripon Rouf, ASM, Amin, MA, Islam, MK, Haque, F, Ahmed, KR, Rahman, MA et al. (2022). Statistical Bioinformatics to Uncover the Underlying Biological Mechanisms That Linked Smoking with Type 2 Diabetes Patients Using Transcriptomic and GWAS Analysis. *Molecules*, 27(14). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35889263>

Edstorp, J, Lampousi, AM & Carlsson, S. (2022). Parental smoking, type 1 diabetes, and islet autoantibody positivity in the offspring: A systematic review and meta-analysis. *Diabet Med*, e14830. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35290684>

Huh, Y, Han, K, Choi, MJ, Kim, JH, Kim, SM, & Nam, GE. (2022). Association of smoking status with the risk of type 2 diabetes among young adults: a nationwide cohort study in South Korea. *Nicotine Tob Res*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35166343>

Rash, CJ, Alessi, SM, Foster, N, Tamborlane, W, Van Name, MA, & Wagner, JA. (2022). Tobacco use patterns and clinical outcomes in the T1D exchange. *J Diabetes Complications*, 108128. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35058139>

Al-Zalabani, AH, & Aljulifi, MZ. (2021). Tobacco smoking and type 2 diabetes mellitus in Gulf Cooperation Council Countries. *Saudi Med J*, 42(9), 1045-1046. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34470846>

Rehman, K, Haider, K, & Akash, MSH. (2021). Cigarette smoking and nicotine exposure contributes for aberrant insulin signaling and cardiometabolic disorders. *Eur J Pharmacol*, 909, 174410. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34375672>

Zhou, JY, & Park, S. (2021). Regular exercise, alcohol consumption, and smoking interact with the polygenetic risk scores involved in insulin sensitivity and secretion for the risk of concurrent hyperglycemia, hypertension, and dyslipidemia. *Nutrition*, 91-92, 111422. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34433106>

Li, Z, Wang, S, Chen, Y, Wu, X, Gu, Y, Lang, X et al. (2021). Smoking affects the patterns of metabolic disorders and metabolic syndrome in patients with first-episode drug-naïve schizophrenia - a large sample study based on Chinese Han population. *Int J Neuropsychopharmacol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34153098>

Baek, W, Lee, JW, Lee, HS, Han, D, Choi, SY, Chun, EJ et al (2021). Concurrent smoking and alcohol consumers had higher triglyceride glucose indices than either only smokers or alcohol consumers: a cross-sectional study in Korea. *Lipids Health Dis*, 20(1), 49. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33975592>

Arab YarMohammadi, A, Arbabi Bidgoli, S, & Ziarati, P. (2021). Increased urinary arsenic concentration in newly diagnosed type 2 diabetes mellitus: a gender-independent, smoking-dependent exposure biomarker in older adults in Tehran. *Environ Sci Pollut Res Int*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33517531>

Jaimes, EA, Zhou, MS, Siddiqui, M, Rezonzew, G, Tian, R, Seshan, SV et al. (2021). Nicotine, Smoking, Podocytes and Diabetic Nephropathy. *Am J Physiol Renal Physiol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33459165>

Battancs, E, Gheorghita, D, Nyiraty, S, Lengyel, C, Eordegh, G, Barath, Z et al. (2020). Periodontal Disease in Diabetes Mellitus: A Case-Control Study in Smokers and Non-Smokers. *Diabetes Ther.* Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32975709>

Chatzigeorgiou, A, Mitroulis, I, Chrysanthopoulou, A, Legaki, AI, Ritis, K, Tentolouris, N et al (2020). Increased Neutrophil Extracellular Traps Related to Smoking Intensity and Subclinical Atherosclerosis in Patients with Type 2 Diabetes. *Thromb Haemost.* Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32772350>

Malhotra, P, Akku, R, Jayaprakash, TP, Ogbue, OD, & Khan, S. (2020). A Review of the Impact of Smoking on Inhaled Insulin: Would You Stop Smoking if Insulin Can Be Inhaled? *Cureus, 12*(7), e9364. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32850233>

Szwarcbard, N, Villani, M, Earnest, A, Flack, J, Andrikopoulos, S, Wischer, N et al. (2020). The association of smoking status with glycemic control, metabolic profile and diabetic complications- Results of the Australian National Diabetes Audit (ANDA). *J Diabetes Complications, 107*626. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32527672>

Upadhyay, B, Dwivedi, S, Wajid, S, & Jain, SK. (2020). Effects of Tobacco on Biochemical Parameters in Healthy and Type 2 Diabetic Subjects. *J Environ Pathol Toxicol Oncol, 39*(1), 23-37. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32479010>

Jensen, MH, Cichosz, SL, Hirsch, IB, Vestergaard, P, Hejlesen, O, & Seto, E. (2020). Smoking is Associated With Increased Risk of Not Achieving Glycemic Target, Increased Glycemic Variability, and Increased Risk of Hypoglycemia for People With Type 1 Diabetes. *J Diabetes Sci Technol, 19*32296820922254. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32456531>

Selya, A, Johnson, EL, Weber, TL, Russo, J, Stansbury, C, Anshutz, D et al (2020). Smoking is associated with a higher risk of unplanned medical visits among adult patients with diabetes, using retrospective electronic medical record data from 2014 to 2016. *BMC Health Serv Res, 20*(1), 383. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32375742>

Wu, P, Rybin, D, Bielak, LF, Feitosa, MF, Franceschini, N, Li, Y et al (2020). Smoking-by-genotype interaction in type 2 diabetes risk and fasting glucose. *PLoS One, 15*(5), e0230815. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32379818>

Alqahtani, F, Alqhtani, N, Alkhtani, F, Divakar, DD, Al-Kheraif, AA, & Javed, F. (2020). Clinicoradiographic markers of peri-implantitis in cigarette-smokers and never-smokers with type-2 diabetes mellitus at 7-years follow-up. *J Periodontol.* Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32017116>

Mehta, N, Stenholm, S, Mannisto, S, Jousilahti, P, & Elo, I. (2020). Excess body weight, cigarette smoking, and type II diabetes incidence in the national FINRISK studies. *Annals of Epidemiology.* Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32024597>

Asfuroglu, P, Arasli-Yilmaz, A, & Aycan, Z. (2019). Cigarette smoking in adolescents with type 1 diabetes mellitus and congenital adrenal hyperplasia. *Turkish Journal of Pediatrics, 61*(2), 236-243. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31951333>

Awad, SF, O'Flaherty, M, El-Nahas, KG, Al-Hamaq, AO, Critchley, JA, & Abu-Raddad, LJ. (2019). Preventing type 2 diabetes mellitus in Qatar by reducing obesity, smoking, and physical inactivity: mathematical modeling analyses. *Popul Health Metr*, 17(1), 20. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31888689>

Azarova, IE, Klyosova, EY, Lazarenko, VA, Konoplya, AI, & Polonikov, AV. (2020). rs11927381 Polymorphism and Type 2 Diabetes Mellitus: Contribution of Smoking to the Realization of Susceptibility to the Disease. *Bulletin of Experimental Biology and Medicine*, 168(3), 313-316. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31938912>

Kao, YH, Celestin, MD, Walker, CD, Yu, Q, Couk, J, Moody-Thomas, S et al. (2019). Smoking Relapse and Type 2 Diabetes Mellitus-Related Emergency Department Visits Among Senior Patients with Diabetes. *Prev Chronic Dis*, 16, E164. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31858955>

Yuan, S, & Larsson, SC. (2019). A causal relationship between cigarette smoking and type 2 diabetes mellitus: A Mendelian randomization study. *Sci Rep*, 9(1), 19342. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31852999>

Kim, JH, Seo, DC, Kim, BJ, Kang, JG, Lee, SJ, Lee, SH et al. (2019). Association between Cigarette Smoking and New-Onset Diabetes Mellitus in 78,212 Koreans Using Self-Reported Questionnaire and Urine Cotinine. *Diabetes Metab J*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31701695>

Cockroft, MC, Bartlett, TR, & Wallace, DC. (2019). Sleep, Nutrition, Disordered Eating, Problematic Tobacco and Alcohol Use, and Exercise in College Students With and Without Diabetes. *J Psychosoc Nurs Ment Health Serv*, 1-10. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31566702>

Wang, S, Chen, J, Wang, Y, Yang, Y, Zhang, D, Liu, C, & Wang, K. (2019). Cigarette Smoking Is Negatively Associated with the Prevalence of Type 2 Diabetes in Middle-Aged Men with Normal Weight but Positively Associated with Stroke in Men. *J Diabetes Res*, 2019, 1853018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31612146>

Molla, GJ, Ismail-Beigi, F, Larijani, B, Khaloo, P, Moosaie, F, Alemi, H et al. (2019). Smoking and Diabetes Control in Adults With Type 1 and Type 2 Diabetes: A Nationwide Study From the 2018 National Program for Prevention and Control of Diabetes of Iran. *Can J Diabetes*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31494031>

Trouiller-Gerfaux, P, Podglajen, E, Hulo, S, Richeval, C, Allorge, D, Garat, A et al (2019). The association between blood cadmium and glycated haemoglobin among never-, former, and current smokers: A cross-sectional study in France. *Environ Res*, 178, 108673. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31520822>

Valerio, G, Mozzillo, E, Zito, E, De Nitto, E, Maltoni, G, Marigliano, M et al (2019). Alcohol consumption or cigarette smoking and cardiovascular disease risk in youth with type 1 diabetes. *Acta Diabetol*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31493030>

Khouja, T, Miller, RG, Moore, PA, Orchard, TJ, & Costacou, T. (2019). Periodontal disease, smoking, cardiovascular complications and mortality in type 1 diabetes. *J Diabetes Complications*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31235433>

McGihon, RE, Burns, RJ, Deschenes, SS, & Schmitz, N. (2019). Longitudinal associations between number of cigarettes per day and depressive symptoms in adult smokers with type 2 diabetes: A path analysis approach. *J Psychosom Res*, 109737. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31229241>

Roderick, P, Turner, V, Readshaw, A, Dogar, O, & Siddiqi, K. (2019). The global prevalence of tobacco use in type 2 diabetes mellitus patients: A systematic review and meta-analysis. *Diabetes Res Clin Pract*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31202865>

Gupta, S, Maharjan, A, Dhama, B, Amgain, P, Katwal, S, Adhikari, B, & Shukla, A. (2018). Status of Tobacco Smoking and Diabetes with Periodontal Disease. *JNMA J Nepal Med Assoc*, 56(213), 818-824. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31065114>

Carlsson, S, Kuja-Halkola, R, Magnusson, C, Lagerros, YT, & Andersson, T. Tobacco and type 2 diabetes: is the association explained by genetic factors? *Int J Epidemiol*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30726916>

Dinardo, MM, Sereika, SM, Korytkowski, M, Baniak, LM, Weinzierl, VA, Hoenstine, AL, & Chasens, ER. Current Smoking: An Independent Predictor of Elevated A1C in Persons With Type 2 Diabetes. *Diabetes Educ*, 2019. 145721719829068. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30755104>

Kar, D, Gillies, C, Nath, M, Khunti, K, Davies, MJ, & Seidu, S. Association of smoking and cardiometabolic parameters with albuminuria in people with type 2 diabetes mellitus: a systematic review and meta-analysis. *Acta Diabetol*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30799525>

Liao, D, Ma, L, Liu, J, & Fu, P. Cigarette smoking as a risk factor for diabetic nephropathy: A systematic review and meta-analysis of prospective cohort studies. *PLoS One*, 2019. 14(2), e0210213. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30716100>

Braffett, BH, Rice, MM, Young, HA, & Lachin, JM. Mediation of the association of smoking and microvascular complications by glycemic control in type 1 diabetes. *PLoS One*, 2019. 14(1), e0210367. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30615671>

Noubiap, JJ, Nansseu, JR, Endomba, FT, Ngouo, A, Nkeck, JR, Nyaga, UF et al. Active smoking among people with diabetes mellitus or hypertension in Africa: a systematic review and meta-analysis. *Sci Rep*, 9(1), 588. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30679752>

Anker, MS, Kalantar-Zadeh, K, & Doehner, W. Smoking and Other Risk Factors in Type 2 Diabetes. *N Engl J Med*, 2018; 379(26), 2572-2573. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30586511>

Fan, T, Yang, S, & Geng, Q. Smoking and Other Risk Factors in Type 2 Diabetes. *N Engl J Med*, 2018; 379(26), 2573. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30586512>

Hu, Y, Hu, FB, & Sun, Q. Smoking and Other Risk Factors in Type 2 Diabetes. *N Engl J Med*, 2018; 379(26), 2574-2575. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30586515>

Kannt, A. Smoking and Other Risk Factors in Type 2 Diabetes. *N Engl J Med*, 2018; 379(26), 2574. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30586514>

Mansi, IA. Smoking and Other Risk Factors in Type 2 Diabetes. *N Engl J Med*, 2018; 379(26), 2573-2574. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30586513>

Fu, XL, Ding, H, Miao, WW, & Chen, HL. Association Between Cigarette Smoking and Diabetic Foot Healing: A Systematic Review and Meta-Analysis. *Int J Low Extrem Wounds*, 2018. 1534734618809583. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30461329>

Choi, DW, Jeon, J, Lee, SA, Han, KT, Park, EC, & Jang, SI. Association between Smoking Behavior Patterns and Glycated Hemoglobin Levels in a General Population. *Int J Environ Res Public Health*, 2018. 15(10). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30332732>

Xia, N, Morteza, A, Yang, F, Cao, H, & Wang, A. A Review of the Role of Cigarette Smoking in the Diabetic Foot. *J Diabetes Investig*, 2018. Available from: <https://onlinelibrary.wiley.com/doi/pdf/10.1111/jdi.12952>

Feodoroff, M, Harjutsalo, V, Forsblom, C, Groop, PH, & FinnDiane Study, G. Dose-dependent effect of smoking on risk of coronary heart disease, heart failure and stroke in individuals with type 1 diabetes. *Diabetologia*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30229273>

Sifat, AE, Vaidya, B, Villalba, H, Albekairi, TH, & Abbruscato, TJ. Neurovascular unit transport responses to ischemia and common coexisting conditions: smoking and diabetes. *Am J Physiol Cell Physiol*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30207783>

Cai, X, Chen, Y, Yang, W, Gao, X, Han, X, Ji, L. The association of smoking and risk of diabetic retinopathy in patients with type 1 and type 2 diabetes: a meta-analysis. *Endocrine*. 2018 Aug 20. pii: 10.1007/s12020-018-1697-y. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30128962>

Chen, C, Tu, YQ, Yang, P, Yu, QL, Zhang, S, Xiong, F, Wang, CY. Assessing the impact of cigarette smoking on beta-cell function and risk for type 2 diabetes in a non-diabetic Chinese cohort. *Am J Transl Res*. 2018 Jul 15;10(7):2164-2174. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30093953>

Sari, MI, Sari, N, Darlan, DM, Prasetya, RJ. Cigarette Smoking and Hyperglycaemia in Diabetic Patients. *Open Access Maced J Med Sci*. 2018 Apr 5;6(4):634-637. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29731929>

Han, Q, Wang, S, Zhang, J, Zhang, R, Guo, R, Wang, Y, Li, H, Xu, H, Liu, F. The association between cigarette smoking and diabetic nephropathy in Chinese male patients. *Acta Diabetol*, Aug 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30066043>

Tarnowski, M, Duda-Sobczak, A, Lipski, J, Zozulinska-Ziolkiewicz, D, Wyganowska-Swiatkowska, M. Tobacco smoking decreases clinical symptoms of gingivitis in patients with type 1 diabetes-a cross-sectional study. *Oral Dis*, May 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29757485>

Kim, JH, Kim, BJ, Kang, JG, Kim, BS, Kang, JH. Association between cigarette smoking and diabetes mellitus using two different smoking stratifications in 145,040 Korean individuals; self-reported

questionnaire and urine cotinine level. *J Diabetes*, Aug 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30091285>

No authors listed. The serious disease that awaits some ex-smokers. *Nature*. 2018 Aug;560(7719):413. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30131537>

Jenkins, DA, Bowden, J, Robinson, HA, Sattar, N, Loos, RJF, Rutter, MK, Sperrin, M. Adiposity-Mortality Relationships in Type 2 Diabetes, Coronary Heart Disease and Cancer Subgroups in the UK Biobank, and Their Modification by Smoking. *Diabetes Care*, Jul 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29970414>

Montes-Santiago, J. Diabetes mellitus and tobacco: The perfect storm. *Rev Clin Esp*, Jul 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30017332>

Luque-Ramirez, M, Sanz de Burgoa, V, and en nombre de los participantes del estudio, Diabetes. Impact of smoking cessation on estimated cardiovascular risk in Spanish type 2 diabetes mellitus patients: The DIABETES study. *Rev Clin Esp*. 2018 Jun 8. pii: S0014-2565(18)30153-X. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29891175>

Sun, Q, Xu, H, Xue, J, Yang, Q, Chen, C, Yang, P, Han, A, Tu, Q, Lu, J, Gao, X, Xiang, Q, Liu, Q. MALAT1 via microRNA-17 regulation of insulin transcription is involved in the dysfunction of pancreatic beta-cells induced by cigarette smoke extract. *J Cell Physiol*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29856480>

Yuan, S, Xue, HL, Yu, HJ, Huang, Y, Tang, BW, Yang, XH, Li, QX, He, QQ. Cigarette smoking as a risk factor for type 2 diabetes in women compared with men: a systematic review and meta-analysis of prospective cohort studies. *J Public Health (Oxf)*, June 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29901755>

Grondahl, MF, Bagger, JI, Lund, A, Faurshou, A, Rehfeld, JF, Holst, JJ, Vilsboll, T, Knop, FK. Effects of Smoking Versus Nonsmoking on Postprandial Glucose Metabolism in Heavy Smokers Compared With Nonsmokers. *Diabetes Care*, Apr 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29602793>

Liu, X, Bragg, F, Yang, L, Kartsonaki, C, Guo, Y, Du, H, Bian, Z, Chen, Y, Yu, C, Lv, J, Wang, K, Zhang, H, Chen, J, Clarke, R, Collins, R, Peto, R, Li, L, Chen, Z, China Kadoorie Biobank Collaborative, Group. Smoking and smoking cessation in relation to risk of diabetes in Chinese men and women: a 9-year prospective study of 0.5 million people. *Lancet Public Health*. 2018 Mar 13. pii: S2468-2667(18)30026-4. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29548855>

Liu, M, Zhang, W, Yan, Z, Yuan, X. Smoking increases the risk of diabetic foot amputation: A meta-analysis. *Exp Ther Med*. 2018 Feb;15(2):1680-1685. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29434753>

Xu, H, Suo, J, Lian, J. Cigarette smoking and risk of albuminuria in patients with type 2 diabetes: a systematic review and meta-analysis of observational studies. *Int Urol Nephrol*. 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29476432>

White, WB, Cain, LR, Benjamin, EJ, DeFilippis, AP, Blaha, MJ, Wang, W, Okhomina, V, Keith, RJ, Al Rifai, M, Kianoush, S, Winniford, MD, Robertson, RM, Bhatnagar, A, Correa, A, Hall, ME. High-Intensity Cigarette Smoking Is Associated With Incident Diabetes Mellitus In Black Adults: The Jackson Heart Study. *J Am Heart Assoc.* 2018 Jan 12;7(2). Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/29330255>

Xu, H, Wang, Q, Sun, Q, Qin, Y, Han, A, Cao, Y, Yang, Q, Yang, P, Lu, J, Liu, Q, Xiang, Q. In type 2 diabetes induced by cigarette smoking, activation of p38 MAPK is involved in pancreatic beta-cell apoptosis. *Environ Sci Pollut Res Int*, 2018. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/29372523>

Jiang, N, Huang, F, Zhang, X. Smoking and the risk of diabetic nephropathy in patients with type 1 and type 2 diabetes: a meta-analysis of observational studies. *Oncotarget.* 2017 Oct 4;8(54):93209-93218. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29190990>

Rezaei-Adl, S Ghahroudi Tali, A, Saffar, H, Rajabiani, A, Abdollahi, A. Comparing the Levels of Acute-Phase Reactants Between Smoker and Nonsmoker Diabetic Patients: More Predicted Risk for Cardiovascular Diseases in Smoker Compared to Nonsmoker Diabetics. *Acta Med Iran.* 2017 Sep;55(9):563-567. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29202548>

Peng, K, Chen, G, Liu, C, Mu, Y, Ye, Z, Shi, L, Zhao, J, Chen, L, Li, Q, Yang, T, Yan, L, Wan, Q et al. Association between Smoking and Glycemic Control in Diabetic Patients: Results from the REACTION study. *J Diabetes*, 2017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29144059>

Yang, Q, Cui, Y, Luo, F, Liu, X, Wang, Q, Bai, J, Dong, F, Sun, Q, Lu, L, Xu, H, Xue, J, Chen, C, Xiang, Q, Liu, Q, Zhang, Q. MicroRNA-191, acting via the IRS-1/Akt signaling pathway, is involved in the hepatic insulin resistance induced by cigarette smoke extract. *Environ Sci Pollut Res Int*, 2017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28963693>

Kawada, T. Smoking and coronary heart disease in patients with type 2 diabetes mellitus. *Diabetes Res Clin Pract.* 2017 Sep 20. pii: S0168-8227(17)31407-9. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/28951339>

Kawada, T. Occupational metal exposures, smoking and diabetes. *Occup Med (Lond).* 2017 Aug 1;67(6):493. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28898970>

Khan, AA, Chung, MJ, Novak, E, Brown, DL. Increased Hazard of Myocardial Infarction With Insulin-Provision Therapy in Actively Smoking Patients With Diabetes Mellitus and Stable Ischemic Heart Disease: The BARI 2D (Bypass Angioplasty Revascularization Investigation 2 Diabetes) Trial. *J Am Heart Assoc.* 2017 Sep 13;6(9). pii: e005946. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/28903941>

Li, L, Xu, C, Wang, KS. Response to the letter to the editor regarding "Smoking and coronary heart disease in patients with type 2 diabetes mellitus". *Diabetes Res Clin Pract.* 2017 Sep 21. pii: S0168-8227(17)31490-0. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28951340>

Tyrberg, M, Nystrom, L, Arnqvist, HJ, Bolinder, J, Gudbjornsdottir, S, Landin-Olsson, M, Eriksson, JW, Svensson, M K. Overweight, hyperglycemia and tobacco use are modifiable risk factors for onset of

retinopathy 9 and 17years after the diagnosis of diabetes - A retrospective observational nationwide cohort study. *Diabetes Res Clin Pract.* 2017 Aug 24;133:21-29. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28888147>

Wilson, R, Willis, J, Gearry, R, Skidmore, P, Fleming, E, Frampton, C, Carr, A. Inadequate Vitamin C Status in Prediabetes and Type 2 Diabetes Mellitus: Associations with Glycaemic Control, Obesity, and Smoking. *Nutrients.* 2017 Sep 9;9(9). pii: E997. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28891932>

Akter, S, Goto, A, Mizoue, T. Smoking and the risk of type 2 diabetes in Japan: A systematic review and meta-analysis. *J Epidemiol.* 2017 Jul 14. pii: S0917-5040(17)30139-9. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28716381>

Kim, KW, Kang, SG, Song, SW, Kim, NR, Rho, JS, Lee, YA. Association between the Time of Length since Smoking Cessation and Insulin Resistance in Asymptomatic Korean Male Ex-Smokers. *J Diabetes Res.* 2017;2017:6074760. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28706954>

Bertoglia, MP, Gormaz, JG, Libuy, M, Sanhueza, D, Gajardo, A, Srur, A, Wallbaum, M, Erazo, M. The population impact of obesity, sedentary lifestyle, and tobacco and alcohol consumption on the prevalence of type 2 diabetes: Analysis of a health population survey in Chile, 2010. *PLoS One.* 2017 May 25;12(5):e0178092. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28542472>

Ganesan, SM, Joshi, V, Fellows, M, Dabdoub, SM, Nagaraja, HN, O'Donnell, B, Deshpande, NR, Kumar, PS. A tale of two risks: smoking, diabetes and the subgingival microbiome. *ISME J.* 2017 May 23. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28534880>

Hogendorf, AM, Fendler, W, Sieroslowski, J, Bobeff, K, Wegrewicz, K, Malewska, KI, Przudzik, MW, Szmigiero-Kawko, M, Sztangierska, B, Mysliwiec, M, Szadkowska, A, Mlynarski, WM. Alcohol and cigarette use among adolescents with type 1 diabetes. *Eur J Pediatr.* 2017 Jun;176(6):713-722. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28382540>

Khan, AA, Chung, MJ, Novak, E, Mori Brooks, M, Brown, DL. The long-term risk of smoking in diabetic patients with stable ischemic heart disease treated with intensive medical therapy and lifestyle modification. *Eur J Prev Cardiol.* 2017 Jan 1:2047487317711046. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28517955>

Kim, JH, Noh, J, Choi, JW, Park, EC. Association of Education and Smoking Status on Risk of Diabetes Mellitus: A Population-Based Nationwide Cross-Sectional Study. *Int J Environ Res Public Health.* 2017 Jun 19;14(6). Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28629199>

Lopez Zubizarreta, M, Hernandez Mezquita, MA, Miralles Garcia, JM, Barrueco Ferrero, M. Tobacco and diabetes: clinical relevance and approach to smoking cessation in diabetic smokers. *Endocrinol Diabetes Nutr.* 2017 Apr;64(4):221-231. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28417877>

Australian Institute of Health and Welfare. Diabetes compendium, Jan 2017. Available from: <https://www.aihw.gov.au/reports/diabetes/diabetes-compendium/contents/how-many-australians-have-diabetes>

Maddatu, J, Anderson-Baucum, E, Evans-Molina, C. Smoking and the risk of type 2 diabetes. *Transl Res.* 2017 Jun;184:101-107. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28336465>

Sliwiska-Mosson, M, Milnerowicz, H. The impact of smoking on the development of diabetes and its complications. *Diab Vasc Dis Res.* 2017 Jul;14(4):265-276. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28393534>

Sorensen, AS, Kjaer, LK, Petersen, KM, Henriksen, T, Cejvanovic, V, Pedersen, O, Hansen, T, Christensen, CK, Brandslund, I, Poulsen, HE. The effect of smoking on the urinary excretion of 8-oxodG and 8-oxoGuo in patients with type 2 diabetes. *Scand J Clin Lab Invest.* 2017 Jul;77(4):253-258. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28287274>

Ganesan, SM, Joshi, V, Fellows, M, Dabdoub, SM, Nagaraja, HN, O'Donnell, B, Deshpande, NR, Kumar, PS. A tale of two risks: smoking, diabetes and the subgingival microbiome. *ISME J*, May 2017. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28534880>

Su, S, Wang, W, Sun, T, Ma, F, Wang, Y, Li, J, Xu, Z. Smoking as a risk factor for diabetic nephropathy: a meta-analysis. *Int Urol Nephrol.* 2017. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28631246>

Skropanic, D, Fufaa, G, Cai, B. The Association Between Changes in Insulin Sensitivity and Consumption of Tobacco and Alcohol in Young Adults: Ordinal Logistic Regression Approach. *Cureus.* 2016 Dec 24;8(12):e942. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28123923>

Hofer, SE, Miller, K, Hermann, JM, DeSalvo, DJ, Riedl, M, Hirsch, IB, Karges, W, Beck, RW, Holl, RW, Maahs, DM. Response to Comment on Hofer et al. International Comparison of Smoking and Metabolic Control in Patients With Type 1 Diabetes. *Diabetes Care* 2016;39:e177-e178. *Diabetes Care.* 2017 Mar;40(3):e37. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28223449>

Barengo, NC, Teuschl, Y, Moltchanov, V, Laatikainen, T, Jousilahti, P, Tuomilehto, J. Coronary heart disease incidence and mortality, and all-cause mortality among diabetic and non-diabetic people according to their smoking behavior in Finland. *Tob Induc Dis.* 2017 Feb 2;15:12. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28184182>

Balkau, B, Soulimane, S, Simon, D, Herman, WH. Comment on Hofer et al. International Comparison of Smoking and Metabolic Control in Patients With Type 1 Diabetes. *Diabetes Care* 2016;39:e177-e178. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28223448>

Kar, D, Gillies, C, Zaccardi, F, Webb, D, Seidu, S, Tesfaye, S, Davies, M, Khunti, K. Relationship of cardiometabolic parameters in non-smokers, current smokers, and quitters in diabetes: a systematic review and meta-analysis. *Cardiovasc Diabetol.* 2016 Nov 24;15(1):158. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27881170>

Kinney, GL, Baker, EH, Klein, OL, Black-Shinn, JL, Wan, ES, Make, B, Regan, E, Bowler, RP, Lutz, SM, Young, KA, Duca, LM, Washko, GR, Silverman, EK, Crapo, JD, Hokanson, JE. Pulmonary predictors of

incident diabetes in smokers. *Chronic Obstr Pulm Dis*. 2016;3(4):739-747. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27795984>

Bucheli, JR, Manshad, A, Ehrhart, MD, Camacho, J, Burge, MR. Association of passive and active smoking with pre-diabetes risk in a predominantly Hispanic population. *J Investig Med*, Oct 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27756803>

Hadaegh, F, Derakhshan, A, Mozaffary, A, Hashemina, M, Khalili, D, Azizi, F. Twelve-Year Cardiovascular and Mortality Risk in Relation to Smoking Habits in Type 2 Diabetic and Non-Diabetic Men: Tehran Lipid and Glucose Study. *PLoS One*. 2016 Mar 1;11(3):e0149780. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26930192>

Dwivedi, S, Malik, PK, Khan, S. Long standing diabetes, hypertension and recurrent stroke associated with smoking. *J Assoc Physicians India*. 2016 Jan;64(1):76. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27727985>

Jose, MJ, Varkey, V, Chandni, R, Zubaida, PA, Maliyekkal, J. The role of smoking as a modifiable risk factor in diabetic nephropathy. *J Assoc Physicians India*. 2016 Jul;64(7):34-38. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27759340>

Liu, Y, Wang, K, Maisonet, M, Wang, L, Zheng, S. Associations of lifestyle factors: smoking, alcohol consumption, diet and physical activity with type 2 diabetes among American adults from NHANES 2005-2014. *J Diabetes*, Oct 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27753238>

Furukawa, S, Sakai, T, Niiya, T, Miyaoka, H, Miyake, T, Yamamoto, S, Kanzaki, S, Maruyama, K et al. Smoking and prevalence of nocturia in Japanese patients with type 2 diabetes mellitus: a post-hoc analysis of The Dogo Study. *Neurourol Urodyn*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27564779>

Hofer, SE, Miller, K, Hermann, JM, DeSalvo, DJ, Riedl, M, Hirsch, IB, Karges, W, Beck, RW, Holl, R. International comparison of smoking and metabolic control in patients with type 1 diabetes. *Diabetes Care*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27531951>

Yang, A, Cheng, N, Pu, H, Liu, S, Dai, M, Zheng, T, Bai, Y. Occupational metal exposures, smoking and risk of diabetes and prediabetes. *Occup Med (Lond)*. 2016 Jul 14. pii: kqw078. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27418044>

Bai, KJ, Lee, JJ, Chien, ST, Suk, CW, Chiang, CY. The influence of smoking on pulmonary tuberculosis in diabetic and non-diabetic patients. *PLoS One*. 2016 Jun 7;11(6):e0156677. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27270725>

Gottsater, M, Balkau, B, Hlatnic, M, Gabriel, R, Anderwald, CH, Dekker, J, Lalic, N, Nilsson, PM. Insulin resistance and beta-cell function in smokers: results from the EGIR-RISC European multicentre study. *Diabet Med*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27334352>

Keith, RJ, Al Rifai, M, Carruba, C, De Jarnett, N, McEvoy, JW, Bhatnagar, A, Blaha, MJ, Defilippis, AP. Tobacco use, insulin resistance, and risk of Type 2 Diabetes: results from the multi-ethnic study of Atherosclerosis. *PLoS One*. 2016 Jun 20;11(6):e0157592. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27322410>

Lauhio, A, Farkkila, E, Pietilainen, KH, Astrom, P, Winkelmann, A, Tervahartiala, T, Pirila, E, Rissanen, A, Kaprio, J, Sorsa, TA, Salo, T. Association of MMP-8 with obesity, smoking and insulin resistance. Eur J Clin Invest, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27296149>

Ohkuma, T, Nakamura, U, Iwase, M, Ide, H, Fujii, H, Jodai, T, Kaizu, S, Kikuchi, Y, Idewaki, Y, Sumi, A, Hirakawa, Y, Kitazono, T. Effects of smoking and its cessation on creatinine- and cystatin C-based estimated glomerular filtration rates and albuminuria in male patients with type 2 diabetes mellitus: the Fukuoka Diabetes Registry. Hypertens Res, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27250568>

Rasouli, B, Andersson, T, Carlsson, PO, Grill, V, Groop, L, Martinell, M, Storm, P, Tuomi, T, Carlsson, S. Smoking and the Risk of LADA: Results From a Swedish Population-Based Case-Control Study. Diabetes Care. 2016 May;39(5):794-800. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27208379>

Venkatasubramanian, S, Noh, RM, Daga, S, Langrish, JP, Mills, NL, Waterhouse, BR, Hoffmann, E, Jacobson, EW, Lang, NN, Frier, BM, Newby, DE. Effects of the small molecule SIRT1 activator, SRT2104 on arterial stiffness in otherwise healthy cigarette smokers and subjects with type 2 diabetes mellitus. Open Heart. 2016 May 17;3(1):e000402. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27239324>

Yeom, H, Lee, JH, Kim, HC, Suh, IJ. The association between smoking tobacco after a diagnosis of diabetes and the prevalence of diabetic nephropathy in the Korean male population. Prev Med Public Health. 2016 Mar;49(2):108-17. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27055547>

Hou, X, Qiu, J, Chen, P, Lu, J, Ma, X, Lu, J, Weng, J, Ji, L, Shan, Z, Liu, J, Tian, H, Ji, Q, Zhu, D, Ge, J, Lin, L et al. Cigarette smoking is associated with a lower prevalence of newly diagnosed diabetes screened by OGTT than non-smoking in Chinese men with normal weight. PLoS One. 2016 Mar 8;11(3):e0149234. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26954355>

Omae, T, Nagaoka, T, Yoshida, A. Effects of habitual cigarette smoking on retinal circulation in patients with type 2 diabetes. Invest Ophthalmol Vis Sci. 2016 ;57(3):1345-51. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27002294>

Ligthart, S et al. Tobacco smoking is associated with DNA methylation of diabetes susceptibility genes. Diabetologia, 2016 May; 59(5):998-1006. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26825526>

Kawada, T. Smoking and risk of cardiovascular disease in patients with type 2 diabetes. Clin Exp Pharmacol Physiol, 2016 Feb;43 (2):280. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26667166>

Le Boudec, J et al. Smoking cessation and the incidence of pre-diabetes and type 2 diabetes: a cohort study. J Diabetes Complications, 2016 Jan-Feb; 30(1):43-8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26547408>

Ahmad, A et al. Study of electrophysiological changes in sensory nerves among diabetic smokers. *J Clin Diagn Res*, 2016 Jan; 10(1):CC09-11. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26894060>

Brownrigg, JR, Hughes, CO, Burleigh, D, Karthikesalingam, A, Patterson, BO, Holt, PJ, Thompson, MM, de Lusignan, S, Ray, KK, Hinchliffe, RJ. Diabetic microvascular triopathy, smoking, and risk of cardiovascular events - Author's reply. *Lancet Diabetes Endocrinol*. 2016 Nov;4(11):888-889. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27793319>

Blomster, JI et al. The harms of smoking and benefits of smoking cessation in women compared with men with type 2 diabetes: an observational analysis of the ADVANCE (Action in Diabetes and Vascular Disease: Preterax and Diamicron modified release Controlled Evaluation) trial. *BMJ Open*, 2016 Jan 8; 6(1):e009668. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26747037>

Afridi, HI, Kazi, TG, Talpur, FN, Brabazon, D. Evaluation of trace and toxic elements in the samples of different cigarettes and their impact on human health of Irish diabetes mellitus patients. *Clin Lab*. 2015;61(1-2):123-40. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25807646>

Feodoroff, M et al. Smoking and progression of diabetic nephropathy in patients with type 1 diabetes. *Acta Diabetol*, 2015. Dec 14 [Epub ahead of print]. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26668013>

Pham, NM et al. Non-linear association between smoking cessation and incident type 2 diabetes. *Lancet Diabetes Endocrinol*, 2015 Dec; 3(12):932. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26590683>

Pan, A. et al. Relation of active, passive, and quitting smoking with incident type 2 diabetes: a systematic review and meta-analysis. *Lancet Diabetes Endocrinol*, 2015 Dec;3(12):958-67. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26388413>

Pan, A et al. Relation of smoking with total mortality and cardiovascular events among patients with diabetes: a meta-analysis and systematic review. *Circulation*, 2015 Nov 10;132(19):1795-804. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26311724>

Yang, M et al. Comparison of diabetes risk following smoking cessation treatment using Varenicline versus Bupropion among obese smokers. *Subst Use Misuse*, 2015; 50(13):1628-37. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26595661>

Meral, I et al. Smoking-related alterations in serum levels of thyroid hormones and insulin in female and male students. *Altern Ther Health Med*, 2015 Sep-Oct; 21(5):24-9. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26393988>

Sattar, N et al. Smoking and diabetes risk: building a causal case with clinical implications. *Lancet Diabetes Endocrinol*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26388412>

Akter, S et al. Correction: smoking, smoking cessation, and the risk of type 2 diabetes among Japanese adults: Japan Epidemiology Collaboration on Occupational Health Study. *PLoS One*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26305358>

Akter, S et al. Smoking, smoking cessation, and the risk of type 2 diabetes among Japanese adults: Japan Epidemiology Collaboration on Occupational Health Study. PLoS One, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26200457>

O'Dell, LE, Nazarian, A. Enhanced vulnerability to tobacco use in persons with diabetes: A behavioral and neurobiological framework. Progress in Neuro-psychopharmacology & Biological Psychiatry, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26092247>

Chau, TK et al. Misconceptions about smoking in patients with type 2 diabetes mellitus: a qualitative analysis. Journal of Clinical Nursing, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25950711>

Clair, C et al. The effect of cigarette smoking on diabetic peripheral neuropathy: a systematic review and meta-analysis. Journal of General Internal Medicine, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25947882>

Mummadi, S. Capsule Commentary on Clair et al. The effect of cigarette smoking on diabetic peripheral neuropathy: a systematic review and meta-analysis. Journal of General Internal Medicine, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26014892>

Paul, SK et al. Association of smoking and concomitant use of metformin with cardiovascular events and mortality in people newly diagnosed with type 2 diabetes. Journal of diabetes, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25929583>

Sugiyama, T et al. Current smoking is an independent risk factor for new-onset diabetes mellitus during highdose glucocorticoid treatment. International Journal of Clinical Pharmacology and Therapeutics, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25997545>

Taylor, AE et al. Smoking and diabetes: strengthening causal inference. The Lancet. Diabetes & Endocrinology, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25935881>

Ohkuma, T et al. Dose- and time-dependent association of smoking and its cessation with glycemic control and insulin resistance in male patients with type 2 diabetes mellitus: the fukuoka diabetes registry. PLoS One, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25822499>

Jiang, F et al. Effects of active and passive smoking on the development of cardiovascular disease as assessed by a carotid intima-media thickness examination in patients with type 2 diabetes mellitus. Clinical and Experimental Pharmacology & Physiology, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25708055>

Salvatore, SP et al. Smoking-related glomerulopathy: expanding the morphologic spectrum. American Journal of Nephrology, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25659349>

Tsai, JS et al. Plasma zinc alpha2-glycoprotein levels are elevated in smokers and correlated with metabolic syndrome. European Journal of Clinical Investigation, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25708842>

Vazquez-Benitez, G et al. Preventable major cardiovascular events associated with uncontrolled glucose, blood pressure, and lipids and active smoking in adults with diabetes with and without cardiovascular disease: a contemporary analysis. *Diabetes Care*, 2015. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/25710922>

Atik, D, Atik, C, Paker, S, Islek, M. The significance of gender in patients administered coronary angiography with respect to smoking, peripheral arterial disease, diabetes mellitus and the procedure used. *J Eval Clin Pract*, Jun 2014. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/24976144>

Uruska, A, Araszkievicz, A, Uruski, P, Zozulinska-Ziolkiewicz, D. Higher risk of microvascular complications in smokers with type 1 diabetes despite intensive insulin therapy. *Microvasc Res*. 2014 Mar;92:79-84. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24423616>

Shah, AS, Dabelea, D, Talton, JW, Urbina, EM, Agostino RB, Wadwa, RP, Marcovina, S, Hamman, RF, Daniels, SR Dolan, LM. Smoking and arterial stiffness in youth with type 1 diabetes: the SEARCH Cardiovascular Disease Study. *J Pediatr*. 2014 Jul;165(1):110-6. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/24681182>

Haglin, LM, Tornkvist, B, Backman, LO. High serum phosphate and triglyceride levels in smoking women and men with CVD risk and type 2 diabetes. *Diabetol Metab Syndr*. 2014 Mar 17;6(1):39.

Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24636522>

Haynes, A, Cooper, MN, Bower, C, Jones, TW, Davis, EA. Maternal smoking during pregnancy and the risk of childhood type 1 diabetes in Western Australia. *Diabetologia*. 2014 Mar;57(3):469-72.

Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24297601>

Jaddoe, VW, de Jonge, LL, van Dam, RM, Willett, WC, Harris, H, Stampfer, MJ, Hu, FB, Michels, KB. Fetal exposure to parental smoking and the risk of type 2 diabetes in adult women. *Diabetes Care*. 2014 Nov;37(11):2966-73. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25092685>

Cibickova L, Karasek D, Langova K, Vaverkova H, Orsag J, et al. Correlation of lipid parameters and markers of insulin resistance: does smoking make a difference? *Physiol Res*, 2014; 63 Suppl 3:S387-93. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25428744>

Hilawe EH, Yatsuya H, Li Y, Uemura M, Wang C, et al. Smoking and Diabetes: Is the Association Mediated by Adiponectin, Leptin, or C-reactive Protein? *J Epidemiol*, 2014. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/25400076>

Aeschbacher S, Schoen T, Clair C, Schillinger P, Schonenberger S, et al. Association of smoking and nicotine dependence with pre-diabetes in young and healthy adults. *Swiss Med Wkly*, 2014; 144:w14019. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25295968>

Aggarwal J and Kumar M. Prevalence of Microalbuminuria among Rural North Indian Population with Diabetes Mellitus and its Correlation with Glycosylated Haemoglobin and Smoking. *J Clin Diagn Res*, 2014; 8(7):CC11-3. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25177561>

Chang, LC, Wu, MS, Tu, CH, Lee, YC, Shun, CT, Chiu, HM. Metabolic syndrome and smoking may justify earlier colorectal cancer screening in men. *Gastrointest Endosc.* 2014 Jun;79(6):961-9. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24472766>

Clyde, M, Smith, KJ, Garipey, G, Schmitz, N. Assessing the longitudinal associations and stability of smoking and depression syndrome over a 4-year period in a community sample with type 2 diabetes. *J Diabetes*, Feb 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24612542>

Ellepola, AN, Joseph, BK, Khan, ZU. The postantifungal effect and phospholipase production of oral *Candida albicans* from smokers, diabetics, asthmatics, denture wearers and healthy individuals following brief exposure to subtherapeutic concentrations of chlorhexidine gluconate. *Mycoses.* 2014 Sep;57(9):553-9. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24655219>

Kim, SJ, Jee, SH, Nam, JM, Cho, WH, Kim, JH, Park, EC. Do early onset and pack-years of smoking increase risk of type II diabetes? *BMC Public Health.* 2014 Feb 19;14:178. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24548553>

La Torre, G, Sferrazza, A, Gualano, MR, de Waure, C, Clemente, G, De Rose, AM, Nicolotti, N, Nuzzo, G, Siliquini, R, Boccia, A, Ricciardi, W. Investigating the synergistic interaction of diabetes, tobacco smoking, alcohol consumption, and hypercholesterolemia on the risk of pancreatic cancer: a case-control study in Italy. *Biomed Res Int.* 2014;2014:481019. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24877100>

Labuz-Rozzak, B, Pierzchala, K, Tyrpien, K. Resistance to acetylsalicylic acid in patients with type 2 diabetes mellitus is associated with lipid disorders and history of current smoking. *J Endocrinol Invest.* 2014 Apr;37(4):331-8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24682908>

Odeberg, J, Freitag, M, Forssell, H, Vaara, I, Persson, ML, Odeberg, H, Halling, A, Rastam, L, Lindblad, U. The influence of smoking and impaired glucose homeostasis on the outcome in patients presenting with an acute coronary syndrome: a cross-sectional study. *BMJ Open.* 2014 Jul 3;4(7):e005077. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24993762>

Patra, J, Jha, P, Rehm, J, Suraweera, W. Tobacco smoking, alcohol drinking, diabetes, low body mass index and the risk of self-reported symptoms of active tuberculosis: individual participant data (IPD) meta-analyses of 72,684 individuals in 14 high tuberculosis burden countries. *PLoS One.* 2014 May 2;9(5):e96433. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24789311>

Magee, MJ, Kempker, RR, Kipiani, M, Tukvadze, N, Howards, PP, Narayan, KM, Blumberg, HM. Diabetes mellitus, smoking status, and rate of sputum culture conversion in patients with multidrug-resistant tuberculosis: a cohort study from the country of Georgia. *PLoS One.* 2014 Apr 15;9(4):e94890. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24736471>

Molsted, S, Johnsen, NF, Snorgaard, O. Trends in leisure time physical activity, smoking, body mass index and alcohol consumption in Danish adults with and without diabetes: a repeat cross-sectional national survey covering the years 2000 to 2010. *Diabetes Res Clin Pract.* 2014 Aug;105(2):217-22. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24928339>

Monti, M, Monti, A, Murdolo, G, Di Renzi, P, Pirro, MR, Borgognoni, F, Vincentelli, GM. Correlation between epicardial fat and cigarette smoking: CT imaging in patients with metabolic syndrome. Scand Cardiovasc J. 2014 Oct;48(5):317-22. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/25022871>

Folan, P, Savrin, C, McDonald, PE. Characteristics of smokers with type 2 diabetes. Appl Nurs Res. 2014 Feb;27(1):72-7. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24342457>

Caffrey MK. OSH officials discuss how 50th anniversary report highlights link between smoking, diabetes. Am J Manag Care, 2014; 20(4 Spec No.):SP98-SP100. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/25618513>

Harmer JA, Keech AC, Veillard AS, Skilton MR, Marwick TH, et al. Cigarette smoking and albuminuria are associated with impaired arterial smooth muscle function in patients with type 2 diabetes mellitus: a FIELD substudy. Diabetes Res Clin Pract, 2014. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/25301035>

Wakabayashi, I. Smoking and lipid-related indices in patients with diabetes mellitus. Diabet Med. 2014 Jul;31(7):868-78. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24606550>

Wakabayashi, I. Relationship between smoking and metabolic syndrome in men with diabetes mellitus. Metab Syndr Relat Disord. 2014 Feb;12(1):70-8. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/24266721>

Nagrebetsky, A, Brettell, R, Roberts, N, Farmer, A. Smoking cessation in adults with diabetes: a systematic review and meta-analysis of data from randomised controlled trials. BMJ Open. 2014 Mar 6;4(3):e004107. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24604481>

Ponciano-Rodriguez, G, Paez-Martinez, N, Villa-Romero, A, Gutierrez-Grobe, Y, Mendez-Sanchez, N. Early changes in the components of the metabolic syndrome in a group of smokers after tobacco cessation. Metab Syndr Relat Disord. 2014 May;12(4):242-50. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/24689988>

Stein, JH, Asthana, A, Smith, SS, Piper, ME, Loh, WY, Fiore, MC, Baker, TB. Smoking cessation and the risk of diabetes mellitus and impaired fasting glucose: three-year outcomes after a quit attempt. PLoS One. 2014 Jun 3;9(6):e98278. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24893290>

The InterAct C, Spijkerman AM, van der AD, Nilsson PM, Ardanaz E, et al. Smoking and Long-Term Risk of Type 2 Diabetes: The EPIC-InterAct Study in European Populations. Diabetes Care, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25336749>

Wei X, E M, and Yu S. A meta-analysis of passive smoking and risk of developing Type 2 Diabetes Mellitus. Diabetes Res Clin Pract, 2014. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/25488377>

Melin EO, Thunander M, Landin-Olsson M, Hillman M, and Thulesius HO. Depression, smoking, physical inactivity and season independently associated with midnight salivary cortisol in type 1 diabetes. BMC Endocr Disord, 2014; 14(1):75. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/25224993>

Slagter, SN, van Vliet-Ostaptchouk, JV, Vonk, JM, Boezen, HM, Dullaart, RP, Kobold, AC, Feskens, EJ, van Beek, AP, van der Klauw, MM, Wolffenbuttel, BH. Combined effects of smoking and alcohol on metabolic syndrome: the LifeLines cohort study. *PLoS One*. 2014 Apr 29;9(4):e96406. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24781037>

Jia, WP. The impact of cigarette smoking on metabolic syndrome. *Biomed Environ Sci*. 2013 Dec;26(12):947-52. Available from : <http://www.ncbi.nlm.nih.gov/pubmed/24393503>

Rabaeus, M, Salen, P, de Lorgeril, M. Is it smoking or related lifestyle variables that increase metabolic syndrome risk? *BMC Med*. 2013 Sep 3;11:196. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24139143>

Bae, J. Differences in cigarette use behaviors by age at the time of diagnosis with diabetes from young adulthood to adulthood: results from the National Longitudinal Study of Adolescent Health. *J Prev Med Public Health*. 2013 Sep;46(5):249-60. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24137527>

Shi, L, Shu, XO, Li, H, Cai, H, Liu, Q, Zheng, W, Xiang, YB, Villegas, R. Physical activity, smoking, and alcohol consumption in association with incidence of type 2 diabetes among middle-aged and elderly Chinese men. *PLoS One*. 2013 Nov 4;8(11):e77919. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24223743>

Slagter, SN, van Vliet-Ostaptchouk, JV, Vonk, JM, Boezen, HM, Dullaart, RP, Kobold, AC, Feskens, EJ, van Beek, AP, van der Klauw, MM, Wolffenbuttel, BH. Associations between smoking, components of metabolic syndrome and lipoprotein particle size. *BMC Med*. 2013 Sep 3;11:195. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24228807>

Vlassopoulos, A, Lean, ME, Combet, E. Influence of smoking and diet on glycated haemoglobin and 'pre-diabetes' categorisation: a cross-sectional analysis. *BMC Public Health*. 2013 Oct 26;13:1013. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24499114>

Wu, N, Wu, Z, Sun, J, Yan, M, Wang, B, Du, X, & Liu, Y. (2020). Small airway remodeling in diabetic and smoking chronic obstructive pulmonary disease patients. *Aging (Albany NY)*, 12(9), 7927-7944. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32369442>

3.16.1 Prevalence of diabetes on Australia

Bai, J, Shi, F, Ma, Y, Yang, D, Yu, C, & Cao, J. (2022). The Global Burden of Type 2 Diabetes Attributable to Tobacco: A Secondary Analysis From the Global Burden of Disease Study 2019. *Front Endocrinol (Lausanne)*, 13, 905367. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35937829>

3.16.2 Causes of diabetes

Mulder, SJ, Chivese, T, & Egbe, CO. (2024). The association between tobacco and alcohol use and health outcomes in individuals living with diabetes and prediabetes in South Africa: A cross-sectional study. *S Afr Med J*, 114(9), e1979. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39513248>

Rouland, A, Thuillier, P, Al-Salameh, A, Benzerouk, F, Bahougne, T, Tramunt, B et al. (2024). Smoking and diabetes. *Ann Endocrinol (Paris)*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39218351>

Debnath, DJ, Ray, J, Jah, SM, & Marimuthu, Y. (2024). Smoking and the Risk of Type 2 Diabetes: A Cross-sectional Analytical Study. *Indian J Community Med*, 49(4), 588-592. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39291121>

Chen, A, Yin, J, Ma, Y, Hou, J, Zhou, W, Bai, Z et al. (2024). Impact of PM(2.5) exposure in old age and its interactive effect with smoking on incidence of diabetes. *Sci Total Environ*, 175219. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39097020>

Sayed, A, Labieb, F, Stevens, ER, Tamura, K, Boakye, E, Virani, SS et al. (2024). Association between a diagnosis of diabetes mellitus and smoking abstinence: An analysis of the National Health Interview Survey. *Prev Med*, 108085. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39053517>

Sung, DE, Lee, SJ, Lee, MY, Rhee, EJ, & Sung, KC. (2024). Longitudinal Analysis of Diabetes Mellitus Risk: Smoking Status and Smoking Cessation. *J Clin Med*, 13(13). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38999492>

Kunutsor, SK, Tetteh, J, Dey, RS, Touw, DJ, Dullaart, RPF, & Bakker, SJL. (2024). Self-reported smoking, urine cotinine, and risk of type 2 diabetes: Findings from the PREVENT prospective cohort study. *Prim Care Diabetes*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38734534>

Hu, Y, Li, X, Wang, X, Ma, H, Zhou, J, Tang, R et al. (2024). Smoking timing, genetic susceptibility and the risk of incident type 2 diabetes: A cohort study from the UK Biobank. *Diabetes Obes Metab*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38618988>

Wei, Y, Hagg, S, Mak, JKL, Tuomi, T, Zhan, Y, & Carlsson, S. (2024). Metabolic profiling of smoking, associations with type 2 diabetes and interaction with genetic susceptibility. *Eur J Epidemiol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38555549>

Jiang, W, Tang, Y, Yang, R, Long, Y, Sun, C, Han, T, & Wei, W. (2024). Maternal smoking, nutritional factors at different life stage, and the risk of incident type 2 diabetes: a prospective study of the UK Biobank. *BMC Med*, 22(1), 50. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38302923>

Kyung, Y, Park, YS, Jin, MH, & Lee, HJ. (2024). Variability in the association of smoking status with the prevalence of diabetes mellitus in the Korean population according to different definitions of smoking status: analysis based on the Korea National Health and Nutrition Examination Survey (2014-2020). *Int J Environ Health Res*, 1-14. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38174714>

Chen, Z, Liu, XA, & Kenny, PJ. (2023). Central and peripheral actions of nicotine that influence blood glucose homeostasis and the development of diabetes. *Pharmacol Res*, 194, 106860. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37482325>

Athanasidou, KI, Paschou, SA, Papakonstantinou, E, Vasileiou, V, Kanouta, F, Kazakou, P et al. (2023). Smoking during pregnancy and gestational diabetes mellitus: a systematic review and meta-analysis. *Endocrine*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37347387>

Feferkorn, I, Badeghiesh, A, Baghlaf, H, & Dahan, MH. (2022). The relationship of smoking with gestational diabetes: a large population-based study and a matched comparison. *Reprod Biomed Online*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36564219>

Bojer, AS, Sorensen, MH, Gaede, P, & Madsen, PL. (2022). Myocardial Extracellular Volume Expansion in Type 2 Diabetes Is Associated With Ischemic Heart Disease, Autonomic Neuropathy, and Active Smoking. *Diabetes Care*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36215704>

Teni, MT, Loux, T, & Sebert Kuhlmann, A. (2022). Racial disparity in gestational diabetes mellitus and the association with sleep-disordered breathing and smoking cigarettes: a cross-sectional study. *J Matern Fetal Neonatal Med*, 1-7. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36273849>

Zhang, T, Zhang, D, Zeng, J, Yang, Y, Fang, Y, & Wang, X. (2022). Combined Effect of Smoking and Fatty Liver Disease on the Progression of Type 2 Diabetes: Insights from a Population-Based Cohort Study. *Comput Math Methods Med*, 2022, 1776875. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35855836>

Kim, YH, Her, AY, Jeong, MH, Kim, BK, Hong, SJ, Kim, S et al. (2022). Prediabetes versus type 2 diabetes in patients with acute myocardial infarction and current smoking. *Am J Med Sci*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35595078>

Lehrer, S, & Rheinstein, PH. (2021). Diabetes, cigarette smoking and transcription factor 7-like 2 (Tcf7L2) in the UK Biobank cohort. *Bull Acad Natl Med*, 205(9), 1146-1150. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35601672>

Liu, C, Wu, Y, Duan, W, & Xu, W. (2022). Cigarette Smoking Increases the Risk of Type 2 Diabetes Mellitus in Patients with Non-alcoholic Fatty Liver Disease: A Population-Based Cohort Study. *Exp Clin Endocrinol Diabetes*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35359014>

Cho, SH, Jeong, SH, Shin, J, Park, S, & Jang, SI. (2022). Short-term smoking increases the risk of insulin resistance. *Sci Rep*, 12(1), 3550. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35241770>

Chi, Y, Wang, X, Jia, J, & Huang, T. (2022). Smoking Status and Type 2 Diabetes, and Cardiovascular Disease: A Comprehensive Analysis of Shared Genetic Etiology and Causal Relationship. *Front Endocrinol (Lausanne)*, 13, 809445. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35250867>

Morales-Suarez-Varela, M, Peraita-Costa, I, Perales-Marin, A, Llopis-Morales, A, & Llopis-Gonzalez, A. (2022). Risk of Gestational Diabetes Due to Maternal and Partner Smoking. *Int J Environ Res Public Health*, 19(2). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35055745>

Corrigendum to: Association Between Smoking Behavior and Insulin Resistance Using Triglyceride-Glucose Index Among South Korean Adults. (2021). *J Clin Endocrinol Metab*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34922397>

Jeong, SH, Joo, HJ, Kwon, J, & Park, EC. (2021). Association between Smoking Behavior and Insulin Resistance Using Triglyceride-Glucose Index among South Korean adults. *J Clin Endocrinol Metab*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34160623>

Jha, MK Kim, JW, Kenny, PJ, Chin Fatt, C, Minhajuddin, A, Salas, R et al (2021). Smoking status links habenular volume to glycated hemoglobin: Findings from the Human Connectome Project-Young Adult. *Psychoneuroendocrinology*, 131, 105321. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34157587>

Jeong, SH, Jang, BN, Kim, SH, Jang, SI, & Park, EC. (2021). Investigation of the Association between Smoking Behavior and Metabolic Syndrome Using Lipid Accumulation Product Index among South Korean Adults. *Int J Environ Res Public Health*, 18(8). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33919954>

Wakabayashi, I. (2021). Associations of Smoking and Drinking with New Lipid-Related Indices in Women with Hyperglycemia. *Womens Health Rep (New Rochelle)*, 2(1), 23-31. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33786527>

Park, SE, Seo, MH, Cho, JH, Kwon, H, Kim, YH, Han, KD et al (2021). Dose-Dependent Effect of Smoking on Risk of Diabetes Remains after Smoking Cessation: A Nationwide Population-Based Cohort Study in Korea. *Diabetes Metab J*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33662197>

Nfor, ON, Ndzinisa, NB, Tsai, MH, Hsiao, CH, & Liaw, YP. (2020). Interactive Effect of IGF2BP2 rs4402960 Variant, Smoking and Type 2 Diabetes. *Diabetes Metab Syndr Obes*, 13, 5097-5102. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33408493>

Lin, WY, Liu, YL Yang, AC, Tsai, SJ, & Kuo, PH. (2020). Active Cigarette Smoking is Associated with an Exacerbation of Genetic Susceptibility to Diabetes. *Diabetes*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33004471>

Kim, BY. (2020). Letter: Association between Cigarette Smoking and New-Onset Diabetes Mellitus in 78,212 Koreans Using Self-Reported Questionnaire and Urine Cotinine (Diabetes Metab J 2020;44:426-35). *Diabetes Metab J*, 44(4), 619-620. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32856802>

Kim, JH, & Kim, BJ. (2020). Response: Association between Cigarette Smoking and New-Onset Diabetes Mellitus in 78,212 Koreans Using Self-Reported Questionnaire and Urine Cotinine (Diabetes Metab J 2020;44:426-35). *Diabetes Metab J*, 44(4), 623-624. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32856804>

Kim, MK, Han, K, You, SY, Kwon, HS, Yoon, KH, & Lee, SH. (2020). Prepregnancy smoking and the risk of gestational diabetes requiring insulin therapy. *Sci Rep*, 10(1), 13901. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32807828>

3.16.3 Diabetic related health problems

Ramirez-Garcia, D, Fermin-Martinez, CA, Sanchez-Castro, P, Nunez-Luna, A, Basile-Alvarez, MR, Fernandez-Chirino, L et al. (2024). Smoking, all-cause, and cause-specific mortality in individuals with diabetes in Mexico: an analysis of the Mexico city prospective study. *BMC Public Health*, 24(1), 2383. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39223469>

Vaishnav, BT, Gangani, SK, Anand, S, Pailla, R, & Mondkar, S. (2024). Comparative study of spirometry parameters in chronic smokers with and without Type 2 Diabetes Mellitus (T2DM). *J Family Med Prim Care*, 13(8), 2921-2926. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39228616>

Cho, Y, Park, HS, Seo, DH, Ahn, SH, Hong, S, Suh, YJ et al. (2024). The Association of Smoking Status with Diabetic Microvascular Complications in Korean Patients with Type 2 Diabetes. *Yonsei Med J*, 65(8), 427-433. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39048318>

Sola, C, Vinals, C, Seres-Noriega, T, Perea, V, Esmatjes, E, Boswell, L et al. (2024). Dose-Dependent association of cumulative tobacco consumption with the presence of carotid atherosclerosis in individuals with type 1 diabetes. *Diabetes Res Clin Pract*, 214, 111771. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38971374>

Mathur, T, Kumar, B, Dubey, M, Keerthi Annepu, K, Annepu, YR, & C, SG. (2024). Evaluating the Role of Glycemic Control in Modulating Pulmonary Function Among Smokers With Diabetes Mellitus: A Systematic Review. *Cureus*, 16(3), e56895. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38659550>

Ghosh, S, Garden, F, Luu, KB, Nguyen, NV, Nguyen, PTB, Nguyen, TA et al (2024). Population attributable fraction for smoking and diabetes in TB. *Int J Tuberc Lung Dis*, 28(4), 204-206. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38563335>

Lee, JH, Kim, SH, & Kim, E. (2024). Influence of Smoking and Controlled Medical Conditions on the Risks of Branch Retinal Vein Occlusion in South Korea: A Population-Based Study. *Ophthalmic Epidemiol*, 1-8. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38507597>

Bulum, T, Brkljacic, N, Ticinovic Ivancic, A, Cavlovic, M, Prkacin, I, & Tomic, M. (2024). In Association with Other Risk Factors, Smoking Is the Main Predictor for Lower Transcutaneous Oxygen Pressure in Type 2 Diabetes. *Biomedicines*, 12(2). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38397984>

Lee, SW, Heu, JY, Kim, JY, Kim, J, Han, K, & Kwon, HS. (2023). Association between Smoking Status and the Risk of Hip Fracture in Patients with Type 2 Diabetes: A Nationwide Population-Based Study. *Endocrinol Metab (Seoul)*, 38(6), 679-689. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38053226>

Balogun, O, Wang, JY, Shaikh, ES, Liu, K, Stoyanova, S, Memel, ZN et al. (2023). Effect of combined tobacco use and type 2 diabetes mellitus on prevalent fibrosis in patients with MASLD. *Hepatol Commun*, 7(11). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37889558>

Af Geijerstam, P, Janryd, F, & Nystrom, FH. (2023). Smoking and cardiovascular disease in patients with type 2 diabetes: a prospective observational study. *J Cardiovasc Med (Hagerstown)*, 24(11), 802-807. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37768866>

Park, SK, Kim, MH, Jung, JY, Oh, CM, Ha, E, Nam, DJ et al. (2023). Changes in smoking status, amount of smoking and their relation to the risk of microvascular complications in men with diabetes

mellitus. *Diabetes Metab Res Rev*, e3697. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37653691>

Han, DW, Jung, W, Lee, KN, Han, K, Lee, SW, & Shin, DW. (2023). Smoking behavior change and the risk of pneumonia hospitalization among smokers with diabetes mellitus. *Sci Rep*, 13(1), 14189. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37648711>

Li, L, Peng, X, Jiang, N, Yan, M, Zheng, Z, Zhang, D, & Zhang, L. (2023). The influence of smoking on retinal ganglion cell-inner plexiform layer complex in male diabetes. *Cutan Ocul Toxicol*, 1-5. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37585689>

Chen, J, Xiao, H, Xue, R, Kumar, V, Aslam, R, Mehdi, SF et al. (2023). Nicotine exacerbates diabetic nephropathy through upregulation of Grem1 expression. *Mol Med*, 29(1), 92. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37415117>

Chang, XY, & Lin, WY. (2023). Epigenetic age acceleration mediates the association between smoking and diabetes-related outcomes. *Clin Epigenetics*, 15(1), 94. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37268982>

Edstorp, J, Ahlqvist, E, Alfredsson, L, Aly, DM, Grill, V, Rasouli, B et al. (2023). Incidence of LADA and Type 2 Diabetes in Relation to Tobacco Use and Genetic Susceptibility to Type 2 Diabetes and Related Traits: Findings From a Swedish Case-Control Study and the Norwegian HUNT Study. *Diabetes Care*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36867461>

Gundogdu, Y, & Anaforoglu, I. (2022). Effects of Smoking on Diabetic Nephropathy. *Front Clin Diabetes Healthc*, 3, 826383. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36992741>

Ohtake, T, & Kobayashi, S. (2023). Vascular Involvement in Patients with Lower Extremity Artery Disease: Difference of Distribution Pattern among Smoking, Diabetes Mellitus, and End-Stage Renal Disease. *J Atheroscler Thromb*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36878537>

Podsiadlo, M, Blasiak, A, Borkowski, L, & Brzoska, R. (2022). Smoking as an Additional Risk Factor in Arthroscopic Rotator Cuff Repair among Type 2 Diabetics. *Ortop Traumatol Rehabil*, 24(6), 375-384. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36734663>

Chen, S, Yang, F, Xu, T, Wang, Y, Zhang, K, Fu, G, & Zhang, W. (2023). Smoking and coronary artery disease risk in patients with diabetes: A Mendelian randomization study. *Front Immunol*, 14, 891947. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36776880>

Takahara, M, Soga, Y, Fujihara, M, Iida, O, & Kawasaki, D. (2022). Association of Smoking, Diabetes, and Dialysis with the Presence of Popliteal Lesions in Femoropopliteal Artery Disease. *J Atheroscler Thromb*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36596532>

Kondo, Y, Hashimoto, Y, Hamaguchi, M, Kaji, A, Sakai, R, Inoue, R et al. (2022). Effects of Smoking on the Gut Microbiota in Individuals with Type 2 Diabetes Mellitus. *Nutrients*, 14(22). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36432487>

Li, T, Li, Z, Huang, L, Tang, J, Ding, Z, Zeng, Z et al. (2022). Cigarette Smoking and Peripheral Vascular Disease are Associated with Increasing Risk of ESKAPE Pathogen Infection in Diabetic Foot Ulcers.

Diabetes Metab Syndr Obes, 15, 3271-3283. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36311916>

Lee, YJ, Han, KD, & Kim, JH. (2022). Association among Current Smoking, Alcohol Consumption, Regular Exercise, and Lower Extremity Amputation in Patients with Diabetic Foot: Nationwide Population-Based Study. *Endocrinol Metab (Seoul)*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36222086>

Kamaraj, B, Deepthi, A, Kandasamy, Nelson, Deepak, JH, & Gracelin. (2022). Evaluation of Salivary Alkaline Phosphatase and Glutathione Peroxidase Levels in Diabetic and Nondiabetic Participants With and Without Smoking Habits: A Case-Control Study. *J Pharm Bioallied Sci*, 14(Suppl 1), S734-S738. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36110669>

Oosterwijk, MM, Hagedoorn, IJM, Maatman, R, Bakker, SJL, Navis, G, & Laverman, GD. (2022). Cadmium, active smoking and renal function deterioration in patients with type 2 diabetes. *Nephrol Dial Transplant*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36124748>

Kar, D, El-Wazir, A, Delanerolle, G, Forbes, A, Sheppard, JP, Nath, M et al. (2022). Predictors and determinants of albuminuria in people with prediabetes and diabetes based on smoking status: A cross-sectional study using the UK Biobank data. *EClinicalMedicine*, 51, 101544. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35813092>

Sia, HK, Kor, CT, Tu, ST, Liao, PY, & Wang, JY. (2022). Association between smoking and glycemic control in men with newly diagnosed type 2 diabetes: a retrospective matched cohort study. *Ann Med*, 54(1), 1385-1394. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35576130>

Zhu, X, Yang, K, Xiao, Y, Ye, C, Zheng, J, Su, B et al. (2022). Association of cigarette smoking with retinal capillary plexus: an optical coherence tomography angiography study. *Acta Ophthalmol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35396902>

Jende, JME, Mooshage, C, Kender, Z, Kopf, S, Groener, JB, Heiland, S et al. (2021). Magnetic Resonance Neurography Reveals Smoking-Associated Decrease in Sciatic Nerve Structural Integrity in Type 2 Diabetes. *Front Neurosci*, 15, 811085. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35242003>

Yang, Y, Peng, N, Chen, G, Wan, Q, Yan, L, Wang, G et al. (2022). Interaction between smoking and diabetes in relation to subsequent risk of cardiovascular events. *Cardiovasc Diabetol*, 21(1), 14. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35073925>

Jiang, Y, Pang, T, Shi, R, Qian, WL, Yan, WF, Li, Y, & Yang, ZG. (2021). Effect of Smoking on Coronary Artery Plaques in Type 2 Diabetes Mellitus: Evaluation With Coronary Computed Tomography Angiography. *Front Endocrinol (Lausanne)*, 12, 750773. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34803915>

Anticic-Eichwalder, M, Lex, S, Sarny, S, Schweighofer, J, Maric, I, & El-Shabrawi, Y. (2021). Effects of Type 2 Diabetes Mellitus and Smoking on Changes in Corneal Endothelial Morphology and Cell Density. *Cornea*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34812784>

Liu, DW, Haq, Z, Yang, D, & Stewart, JM. (2021). Association between smoking history and optical coherence tomography angiography findings in diabetic patients without diabetic retinopathy. *PLoS One*, 16(7), e0253928. Retrieved from

Xue, P, Cao, H, Ma, Z, Zhou, Y, & Wang, N. (2021). Transcription factor 7-like 2 gene- smoking interaction on the risk of diabetic nephropathy in Chinese Han population. *Genes Environ*, 43(1), 26. <https://www.ncbi.nlm.nih.gov/pubmed/34242286>

Bae, SH, Kwak, SH, Choi, JY, & Jung, J. (2020). Synergistic effect of smoking on age-related hearing loss in patients with diabetes. *Sci Rep*, 10(1), 18893. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33144636>

Low, BH, Lin, YD, Huang, BW, Chia, T, Bau, JG., & Huang, HY. (2020). Impaired Microvascular Response to Muscle Stretching in Chronic Smokers With Type 2 Diabetes. *Front Bioeng Biotechnol*, 8, 602. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32596231>

Jiang, S, Quan, DV, Sung, JH, Lee, MY, & Ha, H. (2019). Cigarette smoke inhalation aggravates diabetic kidney injury in rats. *Toxicol Res (Camb)*, 8(6), 964-971. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32704346>

3.16.4 Smoking cessation and diabetes

Driva, S, Korkontzelou, A, Tonstad, S, Tentolouris, N, Litsiou, E, Vasileiou, V et al. (2024). Metabolic Changes Following Smoking Cessation in Patients with Type 2 Diabetes Mellitus. *Biomedicines*, 12(8). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39200346>

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>

Jeong, SM, Yoo, JE, Park, J, Jung, W, Lee, KN, Han, K et al. (2023). Smoking behavior change and risk of cardiovascular disease incidence and mortality in patients with type 2 diabetes mellitus. *Cardiovasc Diabetol*, 22(1), 193. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37516874>

Hsia, SH, Nisis, ML, Lee, ML, Goldstein, C, & Friedman, TC. (2021). Metabolic parameters in smokers undergoing smoking reduction. *J Clin Transl Endocrinol*, 23, 100249. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33717989>

Choi, JW, Han, E, & Kim, TH. (2020). Association of smoking cessation after new-onset type 2 diabetes with overall and cause-specific mortality among Korean men: a nationwide population-based cohort study. *BMJ Open Diabetes Res Care*, 8(1). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32624482>

Cichosz, SL, Jensen, MH, & Hejlesen, O. (2020). Associations between smoking, glucose metabolism and lipid levels: A cross-sectional study. *J Diabetes Complications*, 107649. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32534887>

News reports:

No authors listed. Smoking linked with higher risk of type 2 diabetes. University of Oxford, 2018. Mar 19, 2018. Available from: <http://www.ox.ac.uk/news/2018-03-14-smoking-linked-higher-risk-type-2-diabetes>

No authors listed. Diabetes proves deadly for smokers. Medical News Today, 2016. Nov 24, 2016. Available from: <http://www.medicalnewstoday.com/releases/314323.php>

Brazier, Yvette. Smoking, passive smoking linked to greater risk of type 2 diabetes. Medical News Today, 2015. Sept 18, 2015. Available from: <http://www.medicalnewstoday.com/articles/299679.php?tw>

3.16.2 Causes of diabetes

WHO, International Diabetes Federation, & University of Newcastle (2023, 14/11/2023). Tobacco and Diabetes. Retrieved from <https://idf.org/news/quitting-smoking-cuts-your-risk-of-developing-type-2-diabetes-by-up-to-40/>