

# Tobacco in Australia

## Facts & Issues

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### Relevant news and research

#### 3.8 Child health, maternal smoking before birth and after birth

*Last updated December 2024*

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## Research:

Ru, M., Michaud, DS, Zhao, N, Kelsey, KT, Koestler, DC, Lu, J et al. (2024). Prenatal exposure to maternal smoking and adult lung cancer risk: a nested case-control study using peripheral blood leukocyte DNA methylation prediction of exposure. *Environ Epigenet*, 10(1), dvae015. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39544416>

Wang, H, Sun, X, Wang, Z, Liu, H, Huang, J, Tang, Y et al . (2024). The association between maternal smoking during pregnancy and multimorbidity of non-communicable chronic diseases trajectory in offspring. *BMC Public Health*, 24(1), 3282. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39592985>

Wang, X, Zhong, C, Ma, X, Metayer, C, Mancuso, N, Gauderman, WJ, & Wiemels, JL. (2024). The Influence of DNA Repair Genes and Prenatal Tobacco Exposure on Risk of Childhood Acute Lymphoblastic Leukemia-A Gene-Environment Interaction Study. *Cancer Epidemiol Biomarkers Prev*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39495115>

Kelm, MR, Schuetze, P, & Eiden, RD. (2024). Prenatal tobacco and tobacco-Cannabis co-exposure and unpredictability in maternal anger/hostility: Implications for toddler reactivity. *Neurotoxicol Teratol*, 106, 107399. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39426606>

Falara, E, Metallinou, D, Nanou, C, Vlachou, M, & Diamanti, A. (2024). Perinatal Exposure to Tobacco Smoke and Its Association with the Maternal and Offspring Microbiome: A Systematic Review. *Healthcare (Basel)*, 12(18). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39337215>

Godleski, S, Shisler, S, Colton, K, & Leising, M. (2024). Prenatal Tobacco Exposure and Behavioral Disorders in Children and Adolescents: Systematic Review and Meta-Analysis. *Pediatr Rep*, 16(3), 736-752. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39311325>

Jarvensivu-Koivunen, M, Hernesniemi, J, & Tynkkynen, J. (2024). Smoking and sudden cardiac death in patients with previous coronary artery disease. *Coron Artery Dis*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39292988>

Deng, WQ, Cawte, N, Campbell, N, Azab, SM, de Souza, RJ, Lamri, A et al. (2024). Maternal smoking DNA methylation risk score associated with health outcomes in offspring of European and South Asian ancestry. *Elife*, 13. . Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39141540>

Jiang, W, Lei, Q, Gao, W, Sun, X, Qiao, C, Shan, X et al. (2024). Maternal smoking during pregnancy could accelerate aging in the adulthood: evidence from a perspective study in UK Biobank. *Sci Total Environ*, 951, 175150. . Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39089379>

Yang, L, Yang, L, Wang, H, Guo, Y, Zhao, M, Bovet, P, & Xi, B. (2024). Maternal cigarette smoking before or during pregnancy increases the risk of severe neonatal morbidity after delivery: a nationwide population-based retrospective cohort study. *J Epidemiol Community Health*. . Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39164080>

Samani, D, Ziaei, S, Musaie, F, Mokhtari, H, Valipour, R, Etemadi, M et al. (2024). Maternal smoking during pregnancy and early childhood dental caries in children: a systematic review and meta-

analysis. *BMC Oral Health*, 24(1), 781. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39035310>

Shenassa, ED, Gleason, JL, & Hirabayashi, K. (2024). Fetal Exposure to Tobacco Metabolites and Depression During Adulthood: Beyond Binary Measures. *Epidemiology*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38967976>

Shisler, S, Lee, JK, Schlienz, NJ, Hawk, LW, Jr, Thanos, PK, Kong, KL et al. (2024). Prenatal tobacco and tobacco-cannabis co-exposure: Relationship with attention and memory in middle childhood. *Neurotoxicol Teratol*, 107371. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38971339>

Wang, X, Gao, X, Chen, D, Chen, X, Li, Q, Ding, J et al. (2024). The effect of active and passive smoking during pregnancy on birth outcomes: A cohort study in Shanghai. *Tob Induc Dis*, 22. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38952782>

Li, Q, Cai, X, Zhou, H, Ma, D, & Li, N. (2024). Maternal smoking cessation in the first trimester still poses an increased risk of attention-deficit/hyperactivity disorder and learning disability in offspring. *Front Public Health*, 12, 1386137. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39081356>

Liu, J, Xiao, Y, Zheng, X, Cheng, Y, Zhang, S, Ma, Y et al. (2024). The impact of maternal smoking during pregnancy and the age of smoking initiation on incident dementia: A prospective cohort study. *Alzheimers Dement*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38713803>

Silveira, TBD, Tavella, RA, Penteadó, JO, Garcia, EM, Mattos, LM, Barlem, ELD, & Silva Junior, F. (2024). Neonatal outcomes associated with tobacco, alcohol, and crack use during pregnancy in three Neonatal Intensive Care Units. *An Acad Bras Cienc*, 96(2), e20240014. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38747842>

Moon, RJ, & Harvey, NC. (2024). Smoking in pregnancy increases offspring fracture risk: yet another reason to encourage smoking cessation. *J Bone Miner Res*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38640956>

Nonkovic, N, Marceau, K, McGear, JE, Ramos, AM, Palmer, RHC, Heath, AC, & Knopik, VS. (2024). Maternal smoking during pregnancy is associated with DNA methylation in early adolescence: A sibling comparison design. *Dev Psychol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38661663>

Barrio, E, Lerma-Puertas, D, Jaulin-Pueyo, JJ, Labarta, JJ, & Gascon Hou, C., Hu, Z., & Ke, Y. (2024). Maternal smoking and the risk of childhood brain tumors. *Cancer Epidemiol*, 90, 102547. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38552991>

Hou, C., Hu, Z., & Ke, Y. (2024). Maternal smoking and the risk of childhood brain tumors. *Cancer Epidemiol*, 90, 102547. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38457957>

Hu, L, Wu, S, Zhang, Y, Xia, X, Shu, Y, He, Q et al. (2024). Associations of maternal and personal smoking with all-cause and cause-specific mortality risk and life expectancy: a prospective cohort study. *Public Health*, 229, 144-150. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38442596>

Wetwittayakhleng, P., & Lakatos, P. L. (2024). Unravelling the Smoke Trail: Maternal Smoking, Childhood Exposure, and their Impact on Inflammatory Bowel Diseases. *J Crohns Colitis*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38498342>

Duko, B, Bedaso, A, Dachew, BA, Newnham, E, Gebremedhin, AT, Tessema, G et al (2024). The effect of maternal prenatal tobacco smoking on offspring academic achievement: A systematic review and meta-analysis. *Addict Behav*, 153, 107985. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38367506>

Goering, M, McMahan, K, & Mrug, S. (2024). Concurrent and long-term effects of early pubertal timing on alcohol, cigarette, and cannabis use from adolescence to adulthood. *Psychol Addict Behav*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38330352>

Li, J, Xu, J, Yang, L, Xu, Y, Zhang, X, Bai, C et al. (2024). Mediating Effect of Tobacco Dependence on the Association Between Maternal Smoking During Pregnancy and Chronic Obstructive Pulmonary Disease: Case-Control Study. *JMIR Public Health Surveill*, 10, e53170. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38386387>

Onyije, FM, Dolatkah, R, Olsson, A, Bouaoun, L, Deltour, I, Erdmann, F et al. (2024). Response to comments on: "Maternal smoking and the risk of childhood brain tumors". *Cancer Epidemiol*, 102546. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38383210>

Portaccio, E, & Iaffaldano, P. (2024). Maternal smoking and multiple sclerosis risk in offspring: A further clue of prenatal environmental triggers. *Mult Scler*, 13524585231224667. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38205785>

Diaz-Garcia, H, Vilchis-Gil, J, Castro-Cerritos, KV, Rivera-Susunaga, LE, Klunder-Klunder, M, Granados-Riveron, JT et al. (2023). Association between maternal diet, smoking, and the placenta MTHFR 677C/T genotype and global placental DNA methylation. *Placenta*, 146, 17-24. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38160599>

Mahabee-Gittens, EM, Harun, N, Glover, M, Folger, AT, Parikh, NA, & Cincinnati Infant Neurodevelopment Early Prediction Study, I. (2024). Prenatal tobacco smoke exposure and risk for cognitive delays in infants born very premature. *Sci Rep*, 14(1), 1397. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38228701>

Perez-Castro, S, D'Auria, G, Llambrich, M, Fernandez-Barres, S, Lopez-Espinosa, MJ, Llop, S et al. (2023). Influence of perinatal and childhood exposure to tobacco and mercury in children's gut microbiota. *Front Microbiol*, 14, 1258988. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38249448>

Wimberly, CE, Gulrajani, NB, Russ, JB, Landi, D, Wiemels, JL, Towry, L et al. (2023). Maternal prenatal use of alcohol, tobacco, and illicit drugs and associations with childhood cancer subtypes. *Cancer Epidemiol Biomarkers Prev*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38112788>

Metayer, C, Morimoto, LM, Kang, AY, Sanchez Alvarez, J, & Winestone, LE. (2023). Pre- and post-natal exposures to tobacco smoking and survival of childhood acute lymphoblastic and myeloid leukemias in California, United States. *Cancer Epidemiol Biomarkers Prev*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37921440>

- Snyder, BM, Nian, H, Miller, AM, Ryckman, KK, Li, Y, Tindle, HA et al. (2023). Associations between Smoking and Smoking Cessation during Pregnancy and Newborn Metabolite Concentrations: Findings from PRAMS and INSPIRE Birth Cohorts. *Metabolites*, 13(11). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37999258>
- Artola Arita, V, Trujillo-Caceres, SJ, & Menassa, M. (2023). Smoking threats beyond being a smoker: a burden on children and adolescents' healthy living. *Eur J Prev Cardiol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37862675>
- Nidey, N, Bowers, K, Ding, L, Ji, H, Ammerman, RT, Yolton, K et al. (2023). Neonatal AVPR1a Methylation and In-Utero Exposure to Maternal Smoking. *Toxics*, 11(10). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37888705>
- Yamamoto, SS, Premji, SS, Saini, V, McDonald, SW, & Jhangri, GS. (2023). Investigating associations between maternal stress, smoking and adverse birth outcomes: evidence from the All Our Families cohort. *BMC Pregnancy Childbirth*, 23(1), 710. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37794335>
- Johnson, MG, Suchting, R, Scheid, LM, Fleig, LN, Chalise, A, Stotts, AL et al. (2023). Evaluating the relationship of in utero nicotine exposure with hypoglycemia after delivery: An observational study. *J Neonatal Perinatal Med*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37742665>
- Lehtovirta, M, Pahkala, K, Rovio, SP, Magnussen, CG, Laitinen, TT, Niinikoski, H et al. (2023). Association of Tobacco Smoke Exposure with Metabolic Profile from Childhood to Early Adulthood. The Special Turku Coronary Risk Factor Intervention Project (STRIP). *Eur J Prev Cardiol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37655930>
- Piasek, M, Skrgatic, L, Sulimanec, A, Orct, T, Sekovanic, A, Kovacic, J et al. (2023). Effects of Maternal Cigarette Smoking on Trace Element Levels and Steroidogenesis in the Maternal-Placental-Fetal Unit. *Toxics*, 11(8) Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37624219>
- Beltran-Castillo, S, Bravo, K, & Eugenin, J. (2023). Impact of Prenatal Nicotine Exposure on Placental Function and Respiratory Neural Network Development. *Adv Exp Med Biol*, 1428, 233-244. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37466776>
- He, H, Shen, Q, He, MM, Qiu, W, Wang, H, Zhang, S et al. (2023). In Utero and Childhood/Adolescence Exposure to Tobacco Smoke, Genetic Risk, and Cancer Incidence in Adulthood: A Prospective Cohort Study. *Mayo Clin Proc*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37422733>
- Huang, H, Liu, L, Feng, F, Sun, H, Li, F, Wu, H et al. (2023). Genome-wide by environment interaction studies of maternal smoking and educational score in UK biobank. *Psychiatr Genet*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37222225>
- Ondersma, SJ, Kress, AM, Stroustrup, A, Annett, RD, Avalos, LA, Talavera-Barber, M et al. (2023). The association between intrauterine exposure to opioids, tobacco, alcohol, and cannabis and length of birth hospitalization among neonates without NOWS. *J Perinatol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37160977>

- Sobiech, P, Olczak-Kowalczyk, D, Spodzieja, K, & Gozdowski, D. (2023). The association of maternal smoking and other sociobehavioral factors with dental caries in toddlers: A cross-sectional study. *Front Pediatr*, 11, 1115978. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37077335>
- Baki Yildirim, S, Ayaydin Yilmaz, KI, & Gulerman, C. (2023). The Effect of Active and Passive Maternal Smoking During Pregnancy on the Uterine Artery Blood Flow and Obstetric Outcomes: A Prospective Study. *Cureus*, 15(2), e35270. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36968865>
- Beck, AL, Brauner, EV, Hauser, R, Lim, YH, Uldbjerg, CS, & Juul, A. (2023). Maternal Exposure to Cigarette Smoke during Pregnancy and Testicular Cancer in Offspring: A Systematic Review and Meta-Analysis. *Life (Basel)*, 13(3). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36983774>
- Bonello, K, Gomajee, R, Ibanez, G, Martins, S, Keyes, K, Nakamura, A et al. (2023). Maternal tobacco smoking during pregnancy and children's emotional and behavioural trajectories : The EDEN mother-child birth cohort study. *Nicotine Tob Res*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36786235>
- Fuglsang, CH, Bakos, I, Laugesen, K, Troelsen, FS, Horvath-Puho, E, & Sorensen, HT. (2023). Maternal Smoking During Pregnancy and Risk of Appendicitis in the Offspring. *Epidemiology*, 34(2), 293-301. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36722812>
- He, D, Huang, X, Uppal, K, Coleman, AL, Walker, DD, Ritz, B et al. (2023). Biomarkers of Maternal Smoking and the Risk of Retinoblastoma in Offspring. *Retina*, 43(3), 481-489. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36730579>
- Duko, B, Gebremedhin, AT, Tessema, GA, Alati, R, & Pereira, G. (2022). Average treatment effect of maternal prenatal tobacco smoking on offspring developmental vulnerability in early childhood. *Ann Epidemiol*, 78, 35-43. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36584811>
- Tarasi, B, Cornuz, J, Clair, C, & Baud, D. (2022). Cigarette smoking during pregnancy and adverse perinatal outcomes: a cross-sectional study over 10 years. *BMC Public Health*, 22(1), 2403. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36544092>
- Brink, LT, Springer, PE, Nel, DG, Potter, MD, & Odendaal, HJ. (2022). The tragedy of smoking, alcohol, and multiple substance use during pregnancy. *S Afr Med J*, 112(8), 526-538. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36214396>
- McColl, ER, Kwok, J, Benowitz, NL, Patten, CA, Hughes, CA, Koller, KR et al (2022). The Effect of Tobacco Use on the Expression of Placental Transporters in Alaska Native Women. *Clin Pharmacol Ther*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36053152>
- He, B., Zhang, Q, Guo, Y, Ao, Y, Tie, K, Xiao, H et al. (2022). Prenatal smoke (Nicotine) exposure and offspring's metabolic disease susceptibility in adulthood. *Food Chem Toxicol*, 168, 113384. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36041661>
- Blostein, FA, Fisher, J, Dou, J, Schneper, L, Ware, EB, Notterman, DA et al. (2022). Polymethylation scores for prenatal maternal smoke exposure persist until age 15 and are detected in saliva in the Fragile Families and Child Wellbeing cohort. *Epigenetics*, 1-18. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35980258>

Cao, H, Zhou, N, Liang, Y, Li, Q, Yu, Q, & Bao, T. (2022). Early Risk of Tobacco Smoke Exposure and Preschoolers' Hot and Cool Inhibitory Control: Promotive and Protective Roles of Maternal Positivity in Early Mother-child Interaction. *Prev Sci*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35939179>

Zou, R, Boer, OD, Felix, JF, Muetzel, RL, Franken, IHA, Cecil, CAM, & El Marroun, H. (2022). Association of Maternal Tobacco Use During Pregnancy With Preadolescent Brain Morphology Among Offspring. *JAMA Netw Open*, 5(8), e2224701. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35913739>

Cleary, EM, Kniss, DA, Fette, LM, Hughes, BL, Saade, GR, Dinsmoor, MJ et al Institute of Child Health Human Development Maternal-Fetal Medicine Units, N. (2022). The Association between Prenatal Nicotine Exposure and Offspring's Hearing Impairment. *Am J Perinatol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36007918>

He, H, He, MM, Wang, H, Qiu, W, Liu, L, Long, L et al. (2022). In Utero and Childhood/Adolescence Exposure to Tobacco Smoke, Genetic Risk and Lung Cancer Incidence and Mortality in Adulthood. *Am J Respir Crit Care Med*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35943859>

Sikic, A, Frie, JA, Khokhar, JY, & Murray, JE. (2022). Sex Differences in the Behavioural Outcomes of Prenatal Nicotine and Tobacco Exposure. *Front Neurosci*, 16, 921429. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35873826>

Cosin-Tomas, M, Cilleros-Portet, A, Aguilar-Lacasana, S, Fernandez-Jimenez, N, & Bustamante, M. (2022). Prenatal Maternal Smoke, DNA Methylation, and Multi-omics of Tissues and Child Health. *Curr Environ Health Rep*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35670920>

Finn, J, Suhl, J, Kancherla, V, Conway, KM, Oleson, J, Sidhu, A et al. (2022). Maternal cigarette smoking and alcohol consumption and congenital diaphragmatic hernia. *Birth Defects Res*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35757961>

Crute, C, Liao, Y, Son, E, Grenier, C, Huang, Z, Hoyo, C, & Murphy, SK. (2022). Validation of differential DNA methylation in newborns exposed to tobacco smoke during gestation using bisulfite pyrosequencing. *MicroPubl Biol*, 2022. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35622517>

Haan, E, Westmoreland, KE, Schellhas, L, Sallis, HM, Taylor, G, Zuccolo, L, & Munafo, MR. (2022). Prenatal smoking, alcohol and caffeine exposure and offspring externalizing disorders: a systematic review and meta-analysis. *Addiction*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35385887>

Layoun, V, Ohnona, A, & Tolosa, JE. (2022). Pregnancy Outcomes Associated With Use of Tobacco and Marijuana. *Clin Obstet Gynecol*, 65(2), 376-387. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35476623>

Maciag, MC, Yousuf, A, & Hauptman, M. (2022). Impact of Prenatal Exposure to Smoking on Child Health. *Clin Obstet Gynecol*, 65(2), 388-396. Correa, ML, da Silva, BGC, Wehrmeister, FC, Horta, BL, Goncalves, H, Anselmi, L et al. (2022). Maternal smoking during pregnancy and intelligence quotient



of offspring aged 18 and 30 years: Evidence from two birth cohorts in southern Brazil. *Prev Med*, 156, 106983. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35150754>

Duko, B, Pereira, G, Tait, RJ, Betts, K, Newnham, J, & Alati, R. (2022). Prenatal tobacco and alcohol exposures and the risk of anxiety symptoms in young adulthood: A population-based cohort study. *Psychiatry Res*, 310, 114466. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35219268>

Yim, G, Roberts, A, Ascherio, A, Wypij, D, Kioumourtzoglou, MA, & Weisskopf, MG. (2022). Smoking During Pregnancy and Risk of Attention-Deficit/Hyperactivity Disorder in the Third Generation. *Epidemiology*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35213510>

Correa, ML, da Silva, BGC, Wehrmeister, FC, Horta, BL, Goncalves, H, Barros, F, & Menezes, AMB. (2022). Maternal smoking during pregnancy and children's mental health at age 22 years: Results of a birth cohort study. *J Affect Disord*, 300, 203-208. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34986370>

Zhong, Y, Tang, Q, Tan, B, & Huang, R. (2021). Correlation Between Maternal Smoking During Pregnancy and Dental Caries in Children: A Systematic Review and Meta-Analysis. *Front Oral Health*, 2, 673449. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35048017>

Faisal-Cury, A, & Matijasevich, A. (2021). The Relationship Between Bonding Impairment and Maternal Postpartum Smoking. *Matern Child Health J*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34846606>

Hamadneh, S, & Hamadneh, J. (2021). Active and Passive Maternal Smoking During Pregnancy and Birth Outcomes: A Study From a Developing Country. *Ann Glob Health*, 87(1), 122. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34900622>

Easey, KE, & Sharp, GC. (2021). The impact of paternal alcohol, tobacco, caffeine use and physical activity on offspring mental health: a systematic review and meta-analysis. *Reprod Health*, 18(1), 214. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34702308>

Cheslack-Postava, K, Sourander, A, Hinkka-Yli-Salomaki, S, McKeague, IW, Surcel, HM, & Brown, AS. (2021). A biomarker-based study of prenatal smoking exposure and autism in a Finnish national birth cohort. *Autism Res*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34505741>

Hines, LA, Spry, EA, Moreno-Betancur, M, Mohamad Husin, H, Becker, D, Middleton, M et al. (2021). Cannabis and tobacco use prior to pregnancy and subsequent offspring birth outcomes: a 20-year intergenerational prospective cohort study. *Sci Rep*, 11(1), 16826. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34413325>

Ariyoshi, M, Mitsuhashi, T, Matsumoto, N, Nakamura, K, & Yorifuji, T. (2021). Early childhood exposure to maternal smoking and behavioral development. *Arch Environ Occup Health*, 1-8. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34459355>

Arrhenius, B, Sariaslan, A, Suominen, A, Sourander, A, & Gyllenberg, D. (2021). Familial confounding affected the associations between maternal smoking during pregnancy and offspring speech and language, scholastic and coordination disorders. *Acta Paediatr*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34363238>

- Ayano, G, Betts, K, Dachew, BA, & Alati, R. (2021). Maternal smoking during pregnancy and poor academic performance in adolescent offspring: A registry data-based cohort study. *Addict Behav*, 123, 107072. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34364108>
- Everson, TM, Vives-Usano, M, Seyve, E, Cardenas, A., Lacasana, M, Craig, JM et al. (2021). Placental DNA methylation signatures of maternal smoking during pregnancy and potential impacts on fetal growth. *Nat Commun*, 12(1), 5095. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34429407>
- Feferkorn, I, Badeghiesh, A, Baghlaf, H, & Dahan, MH. (2021). The relation between cigarette smoking with delivery outcomes. An evaluation of a database of more than nine million deliveries. *J Perinat Med*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34331422>
- Silva, AI, Camelo, A, Madureira, J Reis, AT, Machado, AP, Teixeira, JP, & Costa, C. (2021). Urinary cotinine assessment of maternal smoking and environmental tobacco smoke exposure status and its associations with perinatal outcomes: a cross-sectional birth study. *Environ Res*, 203, 111827. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34363802>
- Sininger, YS, Condon, CG, Gimenez, LA, Shuffrey, LC, Myers, MM, Elliott, AJ et al. (2021). Prenatal Exposure to Tobacco and Alcohol Alters Development of the Neonatal Auditory System. *Dev Neurosci*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34348289>
- Duko, B, Pereira, G, Tait, RJ, Newnham, J, Betts, K, & Alati, R. (2021). Prenatal tobacco exposure and the risk of conduct disorder symptoms in offspring at the age of 14 years: Findings from the Raine Study. *J Psychiatr Res*, 142, 1-8. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34304077>
- Rissanen, I, Paananen, M, Harju, T, Miettunen, J, & Oura, P. (2021). Maternal smoking trajectory during pregnancy predicts offspring's smoking and substance use - The Northern Finland birth cohort 1966 study. *Prev Med Rep*, 23, 101467. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34194967>
- Chu, X, Ye, J, Wen, Y, Li, P, Cheng, B, Cheng, S et al (2021). Maternal smoking during pregnancy and risks to depression and anxiety in offspring: An observational study and genome-wide gene-environment interaction analysis in UK biobank cohort. *J Psychiatr Res*, 140, 149-158. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34118634>
- Ekblad, MO, Blanc, J, & Berlin, I. (2021). Special Issue on the Effects of Prenatal Smoking/Nicotine Exposure on the Child's Health. *Int J Environ Res Public Health*, 18(10). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34065326>
- Brannigan, R, Tanskanen, A, Huttunen, MO, Cannon, M., Leacy, FP, & Clarke, MC. (2021). Maternal smoking during pregnancy and offspring psychiatric disorder: a longitudinal birth cohort study. *Social Psychiatry and Psychiatric Epidemiology*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33942155>
- Cajachagua-Torres, KN, Jaddoe, VVW, de Rijke, YB, van den Akker, ELT, Reiss, IKM, van Rossum, EFC, & El Marroun, H. (2021). Parental cannabis and tobacco use during pregnancy and childhood hair

cortisol concentrations. *Drug Alcohol Depend*, 225, 108751. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34051550>

Schellhas, L, Haan, E, Easey, KE, Wootton, RE, Sallis, HM, Sharp, GC et al (2021). Maternal and child genetic liability for smoking and caffeine consumption and child mental health: An intergenerational genetic risk score analysis in the ALSPAC cohort. *Addiction*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33891774>

Scherman, A, Spindel, ER, Park, B, Tepper, R, Erikson, DW, Morris, C, & McEvoy, CT. (2021). Maternal Prenatal Hair Cortisol Is Associated with Child Wheeze among Mothers and Infants with Tobacco Smoke Exposure and Who Face High Socioeconomic Adversity. *International Journal of Environmental Research and Public Health*, 18(5). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33803272>

Orri, M, Chadi, N Ahun, MN, Seguin, JR, Tremblay, RE, Boivin, M et al (2021). Suicidal ideation and attempt in adolescents exposed to maternal smoking across pregnancy and childhood: A 20-year prospective cohort study. *J Affect Disord*, 286, 10-18. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33652357>

Kheirkhah Rahimabad, P, Anthony, TM, Jones, AD, Eslamimehr, S, Mukherjee, N, Ewart, S et al (2020). Nicotine and Its Downstream Metabolites in Maternal and Cord Sera: Biomarkers of Prenatal Smoking Exposure Associated with Offspring DNA Methylation. *Int J Environ Res Public Health*, 17(24). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33419350>

Alyahya, MS, Al-Sheyab, NA, & Amro, B. (2020). Parental Smoking Behavior and Childhood Cancer: A Case-control Study. *Am J Health Behav*, 44(5), 572-590. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33121577>

Miguez, MC, & Pereira, B. (2020). [Effects of active and/or passive smoking during pregnancy and the postpartum period]. *An Pediatr (Barc)*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33041241>

Reddy, KD, & Oliver, BGG. (2020). Sex specific effects of in utero and adult tobacco smoke exposure. *Am J Physiol Lung Cell Mol Physiol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33084360>

Vives-Usano, M, Hernandez-Ferrer, C, Maitre, L, Ruiz-Arenas, C, Andrusaityte, S, Borrás, E et al. (2020). In utero and childhood exposure to tobacco smoke and multi-layer molecular signatures in children. *BMC Med*, 18(1), 243. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32811491>

Adibelli, D, & Kirca, N. (2020). The relationship between gestational active and passive smoking and early postpartum complications. *J Matern Fetal Neonatal Med*, 33(14), 2473-2479. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32393083>

Stroud, LR, Bublitz, MH, Crespo, FA, Lester, B, & Salisbury, AL. (2020). Maternal smoking in pregnancy, fetal activity & newborn behavioral state: An observational ultrasound study. *Neurotoxicol Teratol*, 81, 106894. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32407872>

Lopez-Rabunal, A, Lendoiro, E, Gonzalez-Colmenero, E, Concheiro-Guisan, A, Concheiro-Guisan, M, Penas-Silva, P et al (2020). Assessment of Tobacco Exposure During Pregnancy by Meconium Analysis and Maternal Interview. *J Anal Toxicol*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32227079>

Monasso, GS, Jaddoe, VWV, de Jongste, JC, Duijts, L, & Felix, JF. (2020). Timing- and dose-specific associations of prenatal smoke exposure with newborn DNA methylation. *Nicotine Tob Res*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32330269>

Olives, JP, Elias-Billon, I, Barnier-Ripet, D, & Hospital, V. (2020). Negative influence of maternal smoking during pregnancy on infant outcomes. *Arch Pediatr*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32331915>

Gould, GS, Havard, A, Lim, LL, The Psanz Smoking In Pregnancy Expert, G, & Kumar, R. (2020). Exposure to Tobacco, Environmental Tobacco Smoke and Nicotine in Pregnancy: A Pragmatic Overview of Reviews of Maternal and Child Outcomes, Effectiveness of Interventions and Barriers and Facilitators to Quitting. *Int J Environ Res Public Health*, 17(6). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32204415>

Begum, M, Pilkington, RM, Chittleborough, CR, Lynch, JW, Penno, M, & Smithers, LG. (2020). Effect of maternal smoking during pregnancy on childhood type 1 diabetes: a whole-of-population study. *Diabetologia*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32096009>

Yusuf KK, Salihu HM, Wilson R, Mbah A, Sappenfield W, et al. Folic acid intake, fetal brain growth, and maternal smoking in pregnancy: A randomized controlled trial. *Curr Dev Nutr*, 2019; 3(6):nzz025. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31139766>

Wiklund P, Karhunen V, Richmond RC, Parmar P, Rodriguez A, et al. DNA methylation links prenatal smoking exposure to later life health outcomes in offspring. *Clin Epigenetics*, 2019; 11(1):97. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31262328>

Tettamanti G, Mogensen H, Nordgren A, and Feychting M. Maternal smoking during pregnancy and risk of phacomatoses: Results from a swedish register-based study. *Clin Epidemiol*, 2019; 11:793-800. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31564984>

Squillaciotti G, Bellisario V, Grignani E, Mengozzi G, Bardaglio G, et al. The asti study: The induction of oxidative stress in a population of children according to their body composition and passive tobacco smoking exposure. *International Journal of Environmental Research and Public Health*, 2019; 16(3). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30744094>

Sikdar S, Joehanes R, Joubert BR, Xu CJ, Vives-Usano M, et al. Comparison of smoking-related DNA methylation between newborns from prenatal exposure and adults from personal smoking. *Epigenomics*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31536415>

Seelan RS, Greene RM, and Pisano MM. Micrnas as epigenetic targets of cigarette smoke during embryonic development. *Microna*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31556862>

Reynolds LJ, Chavan NR, DeHoff LB, Preston JD, Maddox HF, et al. Smoking during pregnancy increases chemerin expression in neonatal tissue. *Experimental Physiology*, 2019; 104(1):93-9. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30565770>

Neophytou AM, Oh SS, Hu D, Huntsman S, Eng C, et al. In utero tobacco smoke exposure, DNA methylation, and asthma in latino children. *Environ Epidemiol*, 2019; 3(3):e048. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31342008>

Narvestad H, Vestergaard CH, Rytter D, and Bech BH. Maternal smoking during pregnancy and offspring utilisation of health care services: A population-based cohort study. *Paediatric and Perinatal Epidemiology*, 2019; 33(5):384-93. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31556141>

Liu B, Song L, Zhang L, Wu M, Wang L, et al. Prenatal second-hand smoke exposure and newborn telomere length. *Pediatric Research*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31578036>

Kuppens S, Moore SC, Gross V, Lowthian E, and Siddaway AP. The enduring effects of parental alcohol, tobacco, and drug use on child well-being: A multilevel meta-analysis. *Development and Psychopathology*, 2019:1-14. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31274064>

Hidayat K, Zou SY, and Shi BM. The influence of maternal body mass index, maternal diabetes mellitus, and maternal smoking during pregnancy on the risk of childhood-onset type 1 diabetes mellitus in the offspring: Systematic review and meta-analysis of observational studies. *Obesity Reviews*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31090253>

Fragou D, Pakkidi E, Aschner M, Samanidou V, and Kovatsi L. Smoking and DNA methylation: Correlation of methylation with smoking behavior and association with diseases and fetus development following prenatal exposure. *Food and Chemical Toxicology*, 2019; 129:312-27. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31063835>

Dan N, Sheiner E, Wainstock T, Marks K, and Kessous R. Maternal smoking during pregnancy and the risk for childhood infectious diseases in the offspring: A population-based cohort study. *American Journal of Perinatology*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31491797>

Chelchowska M, Maciejewski TM, Mazur J, Gajewska J, Zasimovich A, et al. Active tobacco smoke exposure in utero and concentrations of hepcidin and selected iron parameters in newborns. *International Journal of Environmental Research and Public Health*, 2019; 16(11). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31195607>

Bilde K, Olesen RH, Ernst EH, Mamsen LS, Amoushahi M, et al. Reduced hepatic metallothionein expression in first trimester fetuses in response to intrauterine smoking exposure: A consequence of low maternal zinc levels? *Human Reproduction*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31713610>

Auger N, Goudie C, Low N, Healy-Profitos J, Lo E, et al. Maternal use of illicit drugs, tobacco or alcohol and the risk of childhood cancer before 6 years of age. *Drug and Alcohol Dependence*, 2019; 200:133-8. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31129483>

Zhang B, Hong X, Ji H, Tang WY, Kimmel M, et al. Maternal smoking during pregnancy and cord blood DNA methylation: New insight on sex differences and effect modification by maternal folate levels. *Epigenetics*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29945474>

Vaiman D. Mother smoking leads to methylation anomalies on 'smoke' genes in the offspring: Indelible traces of previous injuries. *EBioMedicine*, 2018. Available from: [https://www.ebiomedicine.com/article/S2352-3964\(18\)30515-2/pdf](https://www.ebiomedicine.com/article/S2352-3964(18)30515-2/pdf)

Stone C, Jr., Qiu Y, Kurland IJ, Slaughter JC, Moore P, et al. Effect of maternal smoking on plasma and urinary measures of vitamin e isoforms in the first month after extreme preterm birth. *Journal of Pediatrics*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29398053>

Saygin Avsar T, McLeod H, and Jackson L. Health outcomes of maternal smoking during pregnancy and postpartum period for the mother and infant: Protocol for an umbrella review. *Syst Rev*, 2018; 7(1):235. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30567597>

Salahuddin M, Perez A, Ranjit N, Hoelscher DM, and Kelder SH. The effect of prenatal maternal cigarette smoking on children's bmi z-score with sga as a mediator. *International Journal of Obesity*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29515209>

Perry IA, Sexton KJ, Prytherch ZC, Blum JL, Zelikoff JT, et al. An in vitro versus in vivo toxicogenomic investigation of prenatal exposures to tobacco smoke. *Appl In Vitro Toxicol*, 2018; 4(4):379-88. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30637297>

Miyake K, Kawaguchi A, Miura R, Kobayashi S, Tran NQV, et al. Association between DNA methylation in cord blood and maternal smoking: The hokkaido study on environment and children's health. *Sci Rep*, 2018; 8(1):5654. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29618728>

Mejia-Lancheros C, Mehegan J, Murrin CM, Kelleher CC, and Lifeways Cross-Generation Cohort Study G. Smoking habit from the paternal line and grand-child's overweight or obesity status in early childhood: Prospective findings from the lifeways cross-generation cohort study. *International Journal of Obesity*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29535453>

Massey SH, Mroczek DK, Reiss D, Miller ES, Jakubowski JA, et al. Additive drug-specific and sex-specific risks associated with co-use of marijuana and tobacco during pregnancy: Evidence from 3 recent developmental cohorts (2003-2015). *Neurotoxicology and Teratology*, 2018; 68:97-106. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29886244>

Lee HJ, Choi NY, Park YS, Lee SW, Bang JS, et al. Multigenerational effects of maternal cigarette smoke exposure during pregnancy on sperm counts of f1 and f2 male offspring. *Reproductive Toxicology*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29689290>

Kessous R, Wainstock T, and Sheiner E. Smoking during pregnancy as a possible risk factor for pediatric neoplasms in the offspring: A population-based cohort study. *Addictive Behaviors*, 2018; 90:349-53. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30513488>

Kattan M, Bacharier LB, O'Connor GT, Cohen R, Sorkness RL, et al. Spirometry and impulse oscillometry in preschool children: Acceptability and relationship to maternal smoking in pregnancy.

J Allergy Clin Immunol Pract, 2018. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/29449165>

Hildorf S, Clasen-Linde E, Dong L, Cortes D, and Thorup J. Impaired serum inhibin-b and number of germ cells in boys with cryptorchidism following heavily gestational maternal smoking. Journal of Pediatric Surgery, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29706444>

Hamulka J, Zielinska MA, and Chadzynska K. The combined effects of alcohol and tobacco use during pregnancy on birth outcomes. Roczniki Panstwowego Zakladu Higieny, 2018; 69(1):45-54. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29517191>

Gao L, Liu X, Millstein J, Siegmund KD, Dubeau L, et al. Self-reported prenatal tobacco smoke exposure, axl gene-body methylation, and childhood asthma phenotypes. Clin Epigenetics, 2018; 10(1):98. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30029617>

Frontiers Production O. Erratum: Maternal cigarette smoke exposure worsens neurological outcomes in adolescent offspring with hypoxic ischemic injury. Frontiers in Molecular Neuroscience, 2018; 11:84. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29569646>

Contreras ZA, Heck JE, Lee PC, Cui X, Hobel CJ, et al. Prenatal air pollution exposure, smoking, and uterine vascular resistance. Environ Epidemiol, 2018; 2(3). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30627692>

Braback L, Lodge CJ, Lowe AJ, Dharmage SC, Olsson D, et al. Childhood asthma and smoking exposures before conception - a three-generational cohort study. Pediatric Allergy and Immunology, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29512835>

Berlin I and Oncken C. Maternal smoking during pregnancy and negative health outcomes in the offspring. Nicotine and Tobacco Research, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29471548>

Bergallo M, Galliano I, Dapra V, Pirra A, Montanari P, et al. Transcriptional activity of human endogenous retroviruses in response to prenatal exposure of maternal cigarette smoking. American Journal of Perinatology, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30500959>

Accordini S, Calciano L, Johannessen A, Portas L, Benediktsdottir B, et al. A three-generation study on the association of tobacco smoking with asthma. International Journal of Epidemiology, 2018; 47(4):1106-17. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29534228>

Zhang D, Cui H, Zhang L, Huang Y, Zhu J, et al. Is maternal smoking during pregnancy associated with an increased risk of congenital heart defects among offspring? A systematic review and meta-analysis of observational studies. Journal of Maternal-Fetal and Neonatal Medicine, 2017; 30(6):645-57. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27126055>

Tehranifar P, Wu HC, McDonald JA, Jasmine F, Santella RM, et al. Maternal cigarette smoking during pregnancy and offspring DNA methylation in midlife. Epigenetics, 2017:0. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28494218>

Szklo AS, Yuan Z, and Levy D. Update and extension of the brazil simsmoke model to estimate the health impact of cigarette smoking by pregnant women in brazil. *Cadernos de Saude Publica*, 2017; 33(12):e00207416. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29267699>

Peterfi I, Kellenyi L, Peterfi L, and Szilagy A. The short-term effect of smoking on fetal ecg. *Journal of Maternal-Fetal and Neonatal Medicine*, 2017:1-10. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28992716>

Pastro LDM, Lemos M, Fernandes FLA, Saldiva S, Vieira SE, et al. Longitudinal study of lung function in pregnant women: Influence of parity and smoking. *Clinics (Sao Paulo)*, 2017; 72(10):595-9. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29160421>

Muller-Schulte E, Kurlemann G, and Harder A. Tobacco, alcohol and illicit drugs during pregnancy and risk of neuroblastoma: Systematic review. *Archives of Disease in Childhood. Fetal and Neonatal Edition*, 2017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29162685>

Mirzakhani H, De Vivo I, Leeder JS, Gaedigk R, Vyhldal CA, et al. Early pregnancy intrauterine fetal exposure to maternal smoking and impact on fetal telomere length. *European Journal of Obstetrics, Gynecology, and Reproductive Biology*, 2017; 218:27-32. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28926727>

Micalizzi L and Knopik VS. Maternal smoking during pregnancy and offspring executive function: What do we know and what are the next steps? *Development and Psychopathology*, 2017:1-22. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29144227>

Meyer KF, Verkaik-Schakel RN, Timens W, Kobzik L, Plosch T, et al. The fetal programming effect of prenatal smoking on igf1r and igf1 methylation is organ- and sex-specific. *Epigenetics*, 2017:1-49. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29160127>

Meng X, Sun Y, Duan W, and Jia C. Meta-analysis of the association of maternal smoking and passive smoking during pregnancy with neural tube defects. *International Journal of Gynaecology and Obstetrics*, 2017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28963797>

Marceau K, Cinnamon Bidwell L, Karoly HC, Evans AS, Todorov AA, et al. Within-family effects of smoking during pregnancy on adhd: The importance of phenotype. *Journal of Abnormal Child Psychology*, 2017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28664227>

Lucendo-Villarin B, Filis P, Swortwood MJ, Huestis MA, Meseguer-Ripolles J, et al. Erratum to: Modelling foetal exposure to maternal smoking using hepatoblasts from pluripotent stem cells. *Archives of Toxicology*, 2017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28980015>

Lucendo-Villarin B, Filis P, Swortwood MJ, Huestis MA, Meseguer-Ripolles J, et al. Modelling foetal exposure to maternal smoking using hepatoblasts from pluripotent stem cells. *Archives of Toxicology*, 2017:1 - 11. Available from: <https://link.springer.com/article/10.1007/s00204-017-1983-0>

Kobayashi S, Sata F, Sasaki S, Braimoh TS, Araki A, et al. Modification of adverse health effects of maternal active and passive smoking by genetic susceptibility: Dose-dependent association of



plasma cotinine with infant birth size among japanese women-the hokkaido study. *Reproductive Toxicology*, 2017; 74:94-103. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28893607>

Jokstad A. Register-based observational studies - who will endorse that maternal smoking lowers the odds for developing hay fever and eczema? *Clin Exp Dent Res*, 2017; 3(6):207-8. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29744202>

Johnston CF, Broom M, Shadbolt B, and Todd DA. Smoking in the family is most predictive of the development of childhood asthma in preterm babies <30 weeks gestation: Results of the respiratory outcomes study 2 (repos2). *Journal of Asthma*, 2017:0. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28902527>

Hutchinson D, Wilson J, Allsop S, Elliott E, Najman J, et al. Cohort profile: The triple b pregnancy cohort study: A longitudinal study of the relationship between alcohol, tobacco and other substance use during pregnancy and the health and well-being of australian children and families. *International Journal of Epidemiology*, 2017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29087498>

Haslinger C, Bamert H, Rauh M, Burkhardt T, and Schaffer L. Effect of maternal smoking on stress physiology in healthy neonates. *Journal of Perinatology*, 2017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29120451>

Gillioen B, Plancoulaine S, Montemitro E, Flori S, Lin JS, et al. Maturation of arousals during day and night in infants with non-smoking and smoking mothers. *Early Human Development*, 2017; 115:46-50. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28892739>

Fa S, Larsen TV, Bilde K, Daugaard TF, Ernst EH, et al. Changes in first trimester fetal cyp1a1 and ahrr DNA methylation and mrna expression in response to exposure to maternal cigarette smoking. *Environ Toxicol Pharmacol*, 2017; 57:19-27. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29169084>

Duarte A, Bessa JJ, Mrad FCC, Tibirica SHC, Camargo MLS, et al. Smoking and its association with cryptorchidism in down syndrome. *Rev Assoc Med Bras (1992)*, 2017; 63(8):693-6. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28977107>

Ding M, Yuan C, Gaskins AJ, Field AE, Missmer SA, et al. Smoking during pregnancy in relation to grandchild birth weight and bmi trajectories. *PLoS ONE*, 2017; 12(7):e0179368. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28700699>

Cole E, Brown TA, Pinkerton KE, Postma B, Malany K, et al. Perinatal exposure to environmental tobacco smoke is associated with changes in DNA methylation that precede the adult onset of lung disease in a mouse model. *Inhalation Toxicology*, 2017; 29(10):435-42. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29124997>

Cerda J, Bambs C, and Vera C. Infant morbidity and mortality attributable to prenatal smoking in chile. *Revista Panamericana de Salud Publica*, 2017; 41:e106. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28902266>

Braimoh TS, Kobayashi S, Sata F, Sasaki S, Goudarzi H, et al. Association of prenatal passive smoking and metabolic gene polymorphisms with child growth from birth to 3years of age in the hokkaido

birth cohort study on environment and children's health. *Science of the Total Environment*, 2017; 605-606:995-1002. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28693112>

Adamcova K, Kolatorova L, Chlupacova T, Simkova M, Jandikova H, et al. Changes to fetal steroidogenesis caused by maternal smoking. *Physiological Research*, 2017; 66(Supplementum 3):S375-S86. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28948822>

Maternal smoking during pregnancy is associated with offspring hypodontia. *British Dental Journal*, 2017; 223(5):337. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28883592>

Wrzesniak M, Krolik M, Kepinska M, and Milnerowicz H. The influence of maternal smoking on transferrin sialylation and fetal biometric parameters. *Environ Toxicol Pharmacol*, 2016; 47:100-7. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27664951>

Wrzesniak M, Kepinska M, Krolik M, and Milnerowicz H. The influence of tobacco smoke on protein and metal levels in the serum of women during pregnancy. *PLoS ONE*, 2016; 11(8):e0161342. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27548057>

Timur Tashan S, Hotun Sahin N, and Omac Sonmez M. Maternal smoking and newborn sex, birth weight and breastfeeding: A population-based study. *Journal of Maternal-Fetal and Neonatal Medicine*, 2016:1-6. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27819163>

Tanaka K, Miyake Y, Furukawa S, and Arakawa M. Pre- and postnatal smoking exposure and risk of atopic eczema in young Japanese children: A prospective pre-birth cohort study. *Nicotine and Tobacco Research*, 2016. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27794037>

Stephan-Blanchard E, Chardon K, Djeddi DD, Leke A, Delanaud S, et al. The dynamics of cardiac autonomic control in sleeping preterm neonates exposed in utero to smoking. *Clinical Neurophysiology*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27246968>

Stalzer A, Seybold D, Hossino D, Broce M, and Calhoun B. Doppler screening and predictors of adverse outcomes in high risk pregnancies affected by tobacco. *Reproductive Toxicology*, 2016; 67:10-4. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27836536>

Spyridou K, Chouvarda I, Hadjileontiadis L, and Maglaveras N. The effect of cigarette smoking on fetal heart rate tracing during pregnancy. *Journal of Perinatal Medicine*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27054592>

Shisler S, Eiden RD, Molnar DS, Schuetze P, Coles CD, et al. Effects of fetal tobacco exposure on focused attention in infancy. *Infant Behav Dev*, 2016; 45(Pt A):1-10. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27543942>

Shinzawa M, Tanaka S, Tokumasu H, Takada D, Tsukamoto T, et al. Maternal smoking during pregnancy, household smoking after the child's birth, and childhood proteinuria at age 3 years. *Clinical Journal of the American Society of Nephrology*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28007773>

Rzehak P, Saffery R, Reischl E, Covic M, Wahl S, et al. Maternal smoking during pregnancy and DNA-methylation in children at age 5.5 years: Epigenome-wide-analysis in the European Childhood Obesity

project (chop)-study. PLoS ONE, 2016; 11(5):e0155554. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/27171005>

Rozi S, Butt ZA, Zahid N, Wasim S, and Shafique K. Association of tobacco use and other determinants with pregnancy outcomes: A multicentre hospital-based case-control study in karachi, pakistan. BMJ Open, 2016; 6(9):e012045. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/27650766>

Rotroff DM, Joubert BR, Marvel SW, Haberg SE, Wu MC, et al. Maternal smoking impacts key biological pathways in newborns through epigenetic modification in utero. BMC Genomics, 2016; 17(1):976. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27887572>

Rolle-Kampczyk UE, Krumsiek J, Otto W, Roder SW, Kohajda T, et al. Metabolomics reveals effects of maternal smoking on endogenous metabolites from lipid metabolism in cord blood of newborns. Metabolomics, 2016; 12:76. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27065762>

Piasek M, Jurasovic J, Sekovanic A, Brajenovic N, Brcic Karaconji I, et al. Placental cadmium as an additional noninvasive bioindicator of active maternal tobacco smoking. Journal of Toxicology and Environmental Health. Part A, 2016:1-4. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/27210017>

Olszowski T, Baranowska-Bosiacka I, Rebacz-Maron E, Gutowska I, Jamiol D, et al. Cadmium concentration in mother's blood, milk, and newborn's blood and its correlation with fatty acids, anthropometric characteristics, and mother's smoking status. Biological Trace Element Research, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27040674>

Morales E, Vilahur N, Salas LA, Motta V, Fernandez MF, et al. Genome-wide DNA methylation study in human placenta identifies novel loci associated with maternal smoking during pregnancy. International Journal of Epidemiology, 2016. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/27591263>

McEvoy CT and Spindel ER. Pulmonary effects of maternal smoking on the fetus and child: Effects on lung development, respiratory morbidities, and life long lung health. Paediatric Respiratory Reviews, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27639458>

Li L, Qi Y, Shi W, Wang Y, Liu W, et al. A meta-analysis for association of maternal smoking with childhood refractive error and amblyopia. J Ophthalmol, 2016; 2016:8263832. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/27247800>

Kutlu T, Ozkaya E, Sanverdi I, Cakar E, Ayvaci H, et al. Acute fetal heart rate tracing changes secondary to cigarette smoking in third trimester pregnancies. Journal of Maternal-Fetal and Neonatal Medicine, 2016:1-12. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27440435>

Kabesch M. Maternal smoking during pregnancy leaves lasting marks on the child's genetic regulatory machinery contributing to lung disease development later in life. Allergy, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27138246>

Joubert BR, Felix JF, Yousefi P, Bakulski KM, Just AC, et al. DNA methylation in newborns and maternal smoking in pregnancy: Genome-wide consortium meta-analysis. American Journal of

Human Genetics, 2016; 98(4):680-96. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/27040690>

Ip P, Chung BH, Ho FK, Chan GC, Deng W, et al. Prenatal tobacco exposure shortens telomere length in children. Nicotine and Tobacco Research, 2016. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/27194546>

Inoue S, Naruse H, Yorifuji T, Kato T, Murakoshi T, et al. Impact of maternal and paternal smoking on birth outcomes. J Public Health (Oxf), 2016. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/27222236>

Herman HG, Miremberg H, Nini N, Feit H, Schreiber L, et al. The effects of maternal smoking on pregnancy outcome and placental histopathology lesions. Reproductive Toxicology, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27262664>

Heck JE, Contreras ZA, Park AS, Davidson TB, Cockburn M, et al. Smoking in pregnancy and risk of cancer among young children: A population-based study. International Journal of Cancer, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27016137>

Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27016137>

Harju M, Keski-Nisula L, Georgiadis L, and Heinonen S. Parental smoking and cessation during pregnancy and the risk of childhood asthma. BMC Public Health, 2016; 16(1):428. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/27220514>

Gonseth S, de Smith AJ, Roy R, Zhou M, Lee ST, et al. Genetic contribution to variation in DNA methylation at maternal smoking sensitive loci in exposed neonates. Epigenetics, 2016:0. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/27403598>

Duff E. Tobacco smoke toxins from pregnant women can affect children's health for five years after birth. Midwifery, 2016; 33:10-1. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27294235>

Dharashivkar S, Wasser L, Baumgartner RN, King JC, and Winters SJ. Obesity, maternal smoking and shbg in neonates. Diabetology and Metabolic Syndrome, 2016; 8:47. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/27462374>

Chelchowska M, Ambroszkiewicz J, Gajewska J, Rowicka G, Maciejewski TM, et al. Cord blood adiponectin and visfatin concentrations in relation to oxidative stress markers in neonates exposed and nonexposed in utero to tobacco smoke. Oxidative Medicine and Cellular Longevity, 2016; 2016:4569108. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27525051>

Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27525051>

Chan YL, Saad S, Al-Odat I, Zaky AA, Oliver B, et al. Impact of maternal cigarette smoke exposure on brain and kidney health outcomes in female offspring. Clinical and Experimental Pharmacology and Physiology, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27561128>

Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27561128>

Chaiton M and Holloway A. Population attributable risk of smoking during pregnancy on obesity in offspring. Canadian Journal of Public Health, 2016; 107(3):e336. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/27763853>

Browne HA, Modabbernia A, Buxbaum JD, Hansen SN, Schendel DE, et al. Prenatal maternal smoking and increased risk for tourette syndrome and chronic tic disorders. Journal of the American Academy

of Child and Adolescent Psychiatry, 2016; 55(9):784-91. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/27566119>

Bernabe E, MacRitchie H, Longbottom C, Pitts NB, and Sabbah W. Birth weight, breastfeeding, maternal smoking and caries trajectories. *Journal of Dental Research*, 2016. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/27834298>

Bauer T, Trump S, Ishaque N, Thurmann L, Gu L, et al. Environment-induced epigenetic reprogramming in genomic regulatory elements in smoking mothers and their children. *Molecular Systems Biology*, 2016; 12(3):861. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27013061>

Azary S, Ganguly A, Bunin GR, Lombardi C, Park AS, et al. Sporadic retinoblastoma and parental smoking and alcohol consumption before and after conception: A report from the children's oncology group. *PLoS ONE*, 2016; 11(3):e0151728. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/26991078>

Al-Sheyab NA, Al-Fuqha RA, Kheirallah KA, Khabour OF, and Alzoubi KH. Anthropometric measurements of newborns of women who smoke waterpipe during pregnancy: A comparative retrospective design. *Inhalation Toxicology*, 2016; 28(13):629-35. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/27780378>

Alptekin H, Isik H, Alptekin N, Kayhan F, Efe D, et al. A prospective comparative study to assess the effect of maternal smoking at 37 weeks on doppler flow velocity waveforms as well as foetal birth weight and placental weight. *Journal of Obstetrics and Gynaecology*, 2016:1-5. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/27625001>

Zhang L, Wang XH, Zheng XM, Liu TZ, Zhang WB, et al. Maternal gestational smoking, diabetes, alcohol drinking, pre-pregnancy obesity and the risk of cryptorchidism: A systematic review and meta-analysis of observational studies. *PLoS ONE*, 2015; 10(3):e0119006. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/25798927>

Suzuki K, Sato M, Zheng W, Shinohara R, Yokomichi H, et al. Childhood growth trajectories according to combinations of pregestational weight status and maternal smoking during pregnancy: A multilevel analysis. *PLoS ONE*, 2015; 10(2):e0118538. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/25680116>

Sullivan PM, Dervan LA, Reiger S, Buddhe S, and Schwartz SM. Risk of congenital heart defects in the offspring of smoking mothers: A population-based study. *Journal of Pediatrics*, 2015. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/25578997>

Stangenberg S, Chen H, Wong MG, Pollock CA, and Saad S. Fetal programming of chronic kidney disease: The role of maternal smoking, mitochondrial dysfunction and epigenetic modification. *American Journal of Physiology. Renal Physiology*, 2015:ajprenal.00638.2014. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/25656371>

Schuetze P, Lessard J, Colder CR, Maiorana N, Shisler S, et al. Physiological reactivity during object manipulation among cigarette-exposed infants at 9 months of age. *Neurotoxicology and Teratology*, 2015; 48C:64-8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25681531>

Reissland N, Francis B, Kumarendran K, and Mason J. Ultrasound observations of subtle movements: A pilot study comparing fetuses of smoking and non-smoking mothers. *Acta Paediatrica*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25761436>

Pirini F, Guida E, Lawson F, Mancinelli A, and Guerrero-Preston R. Nuclear and mitochondrial DNA alterations in newborns with prenatal exposure to cigarette smoke. *International Journal of Environmental Research and Public Health*, 2015; 12(2):1135-55. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25648174>

Moylan S, Gustavson K, Overland S, Karevold EB, Jacka FN, et al. The impact of maternal smoking during pregnancy on depressive and anxiety behaviors in children: The norwegian mother and child cohort study. *BMC Medicine*, 2015; 13:24. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25644294>

Momen NC, Olsen J, Gissler M, and Li J. Exposure to maternal smoking during pregnancy and risk of childhood cancer: A study using the danish national registers. *Cancer Causes and Control*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26689564>

Mohlman MK and Levy DT. Disparities in maternal child and health outcomes attributable to prenatal tobacco use. *Maternal and Child Health Journal*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26645613>

Mattsson K, Jonsson I, Malmqvist E, Larsson HE, and Rylander L. Maternal smoking during pregnancy and offspring type 1 diabetes mellitus risk: Accounting for hla haplotype. *European Journal of Epidemiology*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25576078>

Massey SH, Estabrook R, O'Brien TC, Pine DS, Burns JL, et al. Preliminary evidence for the interaction of the oxytocin receptor gene (oxtr) and face processing in differentiating prenatal smoking patterns. *Neuroscience Letters*, 2015; 584:259-64. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25450139>

Martinez S, Garcia-Meric P, Millet V, Aymeric-Ponsonnet M, Alagha K, et al. Tobacco smoke in infants with bronchopulmonary dysplasia. *European Journal of Pediatrics*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25633581>

Magnus MC, Haberg SE, Karlstad O, Nafstad P, London SJ, et al. Grandmother's smoking when pregnant with the mother and asthma in the grandchild: The norwegian mother and child cohort study. *Thorax*, 2015; 70(3):237-43. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/25572596>

Maccani JZ and Maccani MA. Altered placental DNA methylation patterns associated with maternal smoking: Current perspectives. *Adv Genomics Genet*, 2015; 2015(5):205-14. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26203295>

Ladd-Acosta C, Shu C, Lee BK, Gidaya N, Singer A, et al. Presence of an epigenetic signature of prenatal cigarette smoke exposure in childhood. *Environmental Research*, 2015; 144(Pt A):139-48. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26610292>

La Merrill MA, Cirillo PM, Krigbaum NY, and Cohn BA. The impact of prenatal parental tobacco smoking on risk of diabetes mellitus in middle-aged women. *J Dev Orig Health Dis*, 2015:1-8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25665487>

Kooijman MN, Bakker H, Franco OH, Hofman A, Taal HR, et al. Fetal smoke exposure and kidney outcomes in school-aged children. *American Journal of Kidney Diseases*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25641064>

Ivorra C, Fraga MF, Bayon GF, Fernandez AF, Garcia-Vicent C, et al. DNA methylation patterns in newborns exposed to tobacco in utero. *Journal of Translational Medicine*, 2015; 13(1):25. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25623364>

Isayama T, Shah PS, Ye XY, Dunn M, Da Silva O, et al. Adverse impact of maternal cigarette smoking on preterm infants: A population-based cohort study. *American Journal of Perinatology*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25825966>

Heppe DH, Medina-Gomez C, Hofman A, Rivadeneira F, and Jaddoe VW. Does fetal smoke exposure affect childhood bone mass? The generation r study. *Osteoporosis International*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25572050>

Han JY, Kwon HJ, Ha M, Paik KC, Lim MH, et al. The effects of prenatal exposure to alcohol and environmental tobacco smoke on risk for adhd: A large population-based study. *Psychiatry Research*, 2015; 225(1-2):164-8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25481018>

Hagnas MP, Cederberg H, Jokelainen J, Mikkola I, Rajala U, et al. Association of maternal smoking during pregnancy with aerobic fitness of offspring in young adulthood: A prospective cohort study. *BJOG*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26645700>

Gray D, Czovek D, Smith E, Willemse L, Alberts A, et al. Respiratory impedance in healthy unsexed south african infants: Effects of maternal smoking. *Respirology*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25581268>

Gollenberg AL, Addo OY, Zhang Z, Hediger ML, Himes JH, et al. In utero exposure to cigarette smoking, environmental tobacco smoke and reproductive hormones in us girls approaching puberty. *Horm Res Paediatr*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25633306>

Gloria-Bottini F and Bottini E. Smoking and the correlation between birth weight and placental weight. Evidence of interaction with maternal haptoglobin phenotype. *European Journal of Obstetrics, Gynecology, and Reproductive Biology*, 2015; 185:136-9. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25575141>

Gautam P, Warner TD, Kan EC, and Sowell ER. Executive function and cortical thickness in youths prenatally exposed to cocaine, alcohol and tobacco. *Dev Cogn Neurosci*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25743199>

Filis P, Nagrath N, Fraser M, Hay DC, Iredale JP, et al. Maternal smoking dysregulates protein expression in second trimester human fetal livers in a sex-specific manner. *Journal of Clinical Endocrinology and Metabolism*, 2015:jc20143941. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25803269>

- Fernandes M, Yang X, Li JY, and Cheikh Ismail L. Smoking during pregnancy and vision difficulties in children: A systematic review. *Acta Ophthalmol*, 2015; 93(3):213-23. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/25545121>
- Fang F, Luo ZC, Dejemli A, Delvin E, and Zhang J. Maternal smoking and metabolic health biomarkers in newborns. *PLoS ONE*, 2015; 10(11):e0143660. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26599278>
- Eiden RD, Molnar DS, Granger DA, Colder CR, Schuetze P, et al. Prenatal tobacco exposure and infant stress reactivity: Role of child sex and maternal behavior. *Developmental Psychobiology*, 2015; 57(2):212-25. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25650169>
- Drake AJ, O'Shaughnessy PJ, Bhattacharya S, Monteiro A, Kerrigan D, et al. In utero exposure to cigarette chemicals induces sex-specific disruption of one-carbon metabolism and DNA methylation in the human fetal liver. *BMC Medicine*, 2015; 13(1):18. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25630355>
- Daseking M, Petermann F, Tischler T, and Waldmann HC. Smoking during pregnancy is a risk factor for executive function deficits in preschool-aged children. *Geburtshilfe und Frauenheilkunde*, 2015; 75(1):64-71. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25684788>
- Correa A, Levis DM, Tinker SC, and Cragan JD. Maternal cigarette smoking and congenital heart defects. *Journal of Pediatrics*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25681204>
- Chang CH and Chuang LM. Fetal exposure to parental smoking and the risk of type 2 diabetes: Are lifestyle-related factors more important? *J Diabetes Investig*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27180661>
- Bates F. Smoking in pregnancy: The dangers of carbon monoxide exposure. *Community Practitioner*, 2015; 88(9):27. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26489248>
- Baheiraei A, Shamsi A, Mohsenifar A, Kazemnejad A, Hatmi Z, et al. The effects of secondhand smoke exposure on infant growth: A prospective cohort study. *Acta Medica Iranica*, 2015; 53(1):39-45. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25597604>
- Aulinas A, Colom C, Garcia Patterson A, Ubeda J, Maria MA, et al. Smoking affects the oral glucose tolerance test profile and the relationship between glucose and hba in gestational diabetes mellitus. *Diabetic Medicine*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26416345>
- Ali K, Rossor T, Bhat R, Wolff K, Hannam S, et al. Antenatal substance misuse and smoking and newborn hypoxic challenge response. *Archives of Disease in Childhood. Fetal and Neonatal Edition*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26290480>
- Werler MM, Yazdy MM, Kasser JR, Mahan ST, Meyer RE, et al. Maternal cigarette, alcohol, and coffee consumption in relation to risk of clubfoot. *Paediatric and Perinatal Epidemiology*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25417917>



Werhmeister FC, Nunes BP, Loret de Mola C, Gomez-Cofre N, de Oliveira PD, et al. Intrauterine exposure to smoking and wheezing in adolescence: The 1993 pelotas birth cohort. *J Dev Orig Health Dis*, 2014;1-8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25404101>

Wehby GL, Prater KN, Ryckman KK, Kummet C, and Murray JC. Candidate gene study for smoking, alcohol use, and body weight in a sample of pregnant women. *Journal of Maternal-Fetal and Neonatal Medicine*, 2014;1-8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25014319>

Stone WL, Bailey B, and Khraisha N. The pathophysiology of smoking during pregnancy: A systems biology approach. *Front Biosci (Elite Ed)*, 2014; 6:318-28. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24896208>

Spector LG, Murphy SE, Wickham KM, Lindgren B, and Joseph AM. Prenatal tobacco exposure and cotinine in newborn dried blood spots. *Pediatrics*, 2014; 133(6):e1632-8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24819573>

Skripak JM. Persistent effects of maternal smoking during pregnancy on lung function and asthma in adolescents. *Pediatrics*, 2014; 134 Suppl 3:S146. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25363930>

Skoglund C, Chen Q, D'Onofrio BM, Lichtenstein P, and Larsson H. Familial confounding of the association between maternal smoking during pregnancy and adhd in offspring. *Journal of Child Psychology and Psychiatry and Allied Disciplines*, 2014; 55(1):61-8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25359172>

Rosen BN, Lee BK, Lee NL, Yang Y, and Burstyn I. Maternal smoking and autism spectrum disorder: A meta-analysis. *Journal of Autism and Developmental Disorders*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25432101>

Richmond RC, Simpkin AJ, Woodward G, Gaunt TR, Lyttleton O, et al. Prenatal exposure to maternal smoking and offspring DNA methylation across the lifecourse: Findings from the avon longitudinal study of parents and children (alspac). *Human Molecular Genetics*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25552657>

Parascandola M. Commentary: Smoking, birthweight and mortality: Jacob yerushalmy on self-selection and the pitfalls of causal inference. *International Journal of Epidemiology*, 2014; 43(5):1373-7. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25301863>

Nielsen CH, Larsen A, and Nielsen AL. DNA methylation alterations in response to prenatal exposure of maternal cigarette smoking: A persistent epigenetic impact on health from maternal lifestyle? *Archives of Toxicology*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25480659>

Mei-Dan E, Walfisch A, Weisz B, Hallak M, Brown R, et al. The unborn smoker: Association between smoking during pregnancy and adverse perinatal outcomes. *Journal of Perinatal Medicine*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25389984>

McConnell R, Shen E, Gilliland FD, Jerrett M, Wolch J, et al. A longitudinal cohort study of body mass index and childhood exposure to secondhand tobacco smoke and air pollution: The southern

california children's health study. Environmental Health Perspectives, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25389275>

Mattioli S, Farioli A, Legittimo P, Miligi L, Benvenuti A, et al. Tobacco smoke and risk of childhood acute non-lymphocytic leukemia: Findings from the setil study. PLoS ONE, 2014; 9(11):e111028. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25401754>

Martinez-Mesa J, Menezes AM, Howe LD, Wehrmeister FC, Muniz LC, et al. Lifecourse relationship between maternal smoking during pregnancy, birth weight, contemporaneous anthropometric measurements and bone mass at 18years old. The 1993 pelotas birth cohort. Early Human Development, 2014; 90(12):901-6. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25463840>

Majorana A, Cagetti MG, Bardellini E, Amadori F, Conti G, et al. Feeding and smoking habits as cumulative risk factors for early childhood caries in toddlers, after adjustment for several behavioral determinants: A retrospective study. BMC Pediatrics, 2014; 14:45. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24528500>

Liska SR. In utero exposure to black bull chewing tobacco and neonatal nicotine withdrawal: A review of the literature. Neonatal Network, 2014; 33(1):5-10. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24413030>

Lin YJ. Low birth weight, preterm births, and intrauterine growth retardation in relation to parental smoking during pregnancy. Pediatr Neonatol, 2014; 55(1):3-4. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24434298>

Kramer MS, Zhang X, and Platt RW. Commentary: Yerushalmy, maternal cigarette smoking and the perinatal mortality crossover paradox. International Journal of Epidemiology, 2014; 43(5):1378-81. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25301864>

Kovess V, Keyes KM, Hamilton A, Pez O, Bitfoi A, et al. Maternal smoking and offspring inattention and hyperactivity: Results from a cross-national european survey. European Child and Adolescent Psychiatry, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25413602>

Keyes KM, Davey Smith G, and Susser E. Commentary: Smoking in pregnancy and offspring health: Early insights into family-based and 'negative control' studies? International Journal of Epidemiology, 2014; 43(5):1381-8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25301865>

Kamer B, Pasowska R, Grys W, Socha-Banasiak A, Kamer-Bartosinska A, et al. Pre- and postnatal exposure of children to tobacco smoke during the first four years of life - observations of the authors. Annals of Agricultural and Environmental Medicine, 2014; 21(4):753-9. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25528915>

Joya X, Manzano C, Alvarez AT, Mercadal M, Torres F, et al. Transgenerational exposure to environmental tobacco smoke. International Journal of Environmental Research and Public Health, 2014; 11(7):7261-74. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25032741>

Joubert BR, Haberg SE, Bell DA, Nilsen RM, Vollset SE, et al. Maternal smoking and DNA methylation in newborns: In utero effect or epigenetic inheritance? Cancer Epidemiology, Biomarkers and Prevention, 2014; 23(6):1007-17. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24740201>

Ivorra C, Garcia-Vicent C, Ponce F, Ortega-Evangelio G, Fernandez-Formoso JA, et al. High cotinine levels are persistent during the first days of life in newborn second hand smokers. *Drug and Alcohol Dependence*, 2014; 134:275-9. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24268547>

Inamdar AS, Croucher RE, Chokhandre MK, Mashyakhy MH, and Marinho VC. Maternal smokeless tobacco use in pregnancy and adverse health outcomes in newborns: A systematic review. *Nicotine and Tobacco Research*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25534929>

Huttly W, Bestwick J, and Wald N. Effect of smoking status on inhibin-a in second-trimester prenatal screening for down syndrome. *Prenatal Diagnosis*, 2014; 34(4):406-7. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24395085>

Humphrey A and Dinakar C. Maternal second-hand smoke exposure in pregnancy is associated with childhood asthma development. *Pediatrics*, 2014; 134 Suppl 3:S145-6. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25363929>

Holz NE, Boecker R, Baumeister S, Hohm E, Zohsel K, et al. Effect of prenatal exposure to tobacco smoke on inhibitory control: Neuroimaging results from a 25-year prospective study. *JAMA Psychiatry*, 2014; 71(7):786-96. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24828276>

Hollams EM, de Klerk NH, Holt PG, and Sly PD. Persistent effects of maternal smoking during pregnancy on lung function and asthma in adolescents. *American Journal of Respiratory and Critical Care Medicine*, 2014; 189(4):401-7. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24251622>

Harrod CS, Reynolds RM, Chasan-Taber L, Fingerlin TE, Glueck DH, et al. Quantity and timing of maternal prenatal smoking on neonatal body composition: The healthy start study. *Journal of Pediatrics*, 2014; 165(4):707-12. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25063722>

Harrod CS, Fingerlin TE, Chasan-Taber L, Reynolds RM, Glueck DH, et al. Exposure to prenatal smoking and early-life body composition: The healthy start study. *Obesity (Silver Spring)*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25385660>

Hall GL. Smoking during pregnancy, vitamin c supplementation, and infant respiratory health. *JAMA*, 2014; 311(20):2070-1. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24838283>

Gunnerbeck A, Edstedt Bonamy AK, Wikstrom AK, Granath F, Wickstrom R, et al. Maternal snuff use and smoking and the risk of oral cleft malformations--a population-based cohort study. *PLoS ONE*, 2014; 9(1):e84715. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24454740>

Golding J, Northstone K, Gregory S, Miller LL, and Pembrey M. The anthropometry of children and adolescents may be influenced by the prenatal smoking habits of their grandmothers: A longitudinal cohort study. *Am J Hum Biol*, 2014; 26(6):731-9. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/25130101>

Gnigler M, Neubauer V, Griesmaier E, Zotter S, Kager K, et al. Very preterm children risk reduced processing speed at five-years-of-age, predicted by typical complications of prematurity and prenatal smoking. *Acta Paediatrica*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25382547>

- Fuentes-Leonarte V, Estarlich M, Ballester F, Murcia M, Esplugues A, et al. Pre- and postnatal exposure to tobacco smoke and respiratory outcomes during the first year. *Indoor Air*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24810295>
- Fowler PA, Childs AJ, Courant F, MacKenzie A, Rhind SM, et al. In utero exposure to cigarette smoke dysregulates human fetal ovarian developmental signalling. *Human Reproduction*, 2014; 29(7):1471-89. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24847019>
- Feldkamp ML, Srisukhumbowornchai S, Romitti PA, Olney RS, Richardson SD, et al. Self-reported maternal cigarette smoke exposure during the periconceptional period and the risk for omphalocele. *Paediatric and Perinatal Epidemiology*, 2014; 28(1):67-73. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24313669>
- Farioli A, Legittimo P, Mattioli S, Miligi L, Benvenuti A, et al. Tobacco smoke and risk of childhood acute lymphoblastic leukemia: Findings from the setil case-control study. *Cancer Causes and Control*, 2014; 25(6):683-92. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24699944>
- Farber HJ. Harm of in utero tobacco smoke exposure: A heritable trait? *Chest*, 2014; 145(6):1182-4. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24889426>
- Ellingson JM, Goodnight JA, Van Hulle CA, Waldman ID, and D'Onofrio BM. A sibling-comparison study of smoking during pregnancy and childhood psychological traits. *Behavior Genetics*, 2014; 44(1):25-35. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24085497>
- El-Ardat MA, Izetbegovic S, and El-Ardat KA. Effect of cigarette smoking in pregnancy on infants anthropometric characteristics. *Mater Sociomed*, 2014; 26(3):186-7. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25126013>
- El Marroun H, Schmidt MN, Franken IH, Jaddoe VW, Hofman A, et al. Prenatal tobacco exposure and brain morphology: A prospective study in young children. *Neuropsychopharmacology*, 2014; 39(4):792-800. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24096296>
- Ekblad M, Korkeila J, and Lehtonen L. Smoking during pregnancy affects foetal brain development. *Acta Paediatrica*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25169748>
- Durmus B, Hepe DH, Taal HR, Manniesing R, Raat H, et al. Parental smoking during pregnancy and total and abdominal fat distribution in school-age children: The generation r study. *International Journal of Obesity*, 2014; 38(7):966-72. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24448598>
- Dior UP, Lawrence GM, Sitlani C, Enquobahrie D, Manor O, et al. Parental smoking during pregnancy and offspring cardio-metabolic risk factors at ages 17 and 32. *Atherosclerosis*, 2014; 235(2):430-7. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24937467>
- Cornelius MD. People with schizophrenia are more likely to have a mother who smoked during pregnancy than people without the condition. *Evidence-Based Nursing*, 2014; 17(3):80. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24257911>

Chudal R, Brown AS, Gissler M, Suominen A, and Sourander A. Is maternal smoking during pregnancy associated with bipolar disorder in offspring? *Journal of Affective Disorders*, 2014; 171C:132-6. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25305427>

Boucher O, Jacobson JL, Burden MJ, Dewailly E, Jacobson SW, et al. Prenatal tobacco exposure and response inhibition in school-aged children: An event-related potential study. *Neurotoxicology and Teratology*, 2014; 44:81-8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24946039>

Black MM, Nair P, and Spanier AJ. Dose and timing of prenatal tobacco exposure: Threats to early child development. *Lancet Respir Med*, 2014; 2(9):677-9. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25127406>

Biederman J, Martelon M, Woodworth KY, Spencer TJ, and Faraone SV. Is maternal smoking during pregnancy a risk factor for cigarette smoking in offspring? A longitudinal controlled study of adhd children grown up. *Journal of Attention Disorders*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25416463>

Ali K, Wolff K, Peacock JL, Hannam S, Rafferty GF, et al. Ventilatory response to hypercarbia in newborns of smoking and substance-misusing mothers. *Ann Am Thorac Soc*, 2014; 11(6):933-8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24983462>

Flower A, Shawe J, Stephenson J, and Doyle P. Pregnancy planning, smoking behaviour during pregnancy, and neonatal outcome: Uk millennium cohort study. *BMC Pregnancy Childbirth*, 2013; 13:238. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24354748>

Caspers KM, Romitti PA, Lin S, Olney RS, Holmes LB, et al. Maternal periconceptional exposure to cigarette smoking and congenital limb deficiencies. *Paediatric and Perinatal Epidemiology*, 2013; 27(6):509-20. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24134526>

Barrington-Trimis JL, Searles Nielsen S, Preston-Martin S, Gauderman WJ, Holly EA, et al. Parental smoking and risk of childhood brain tumors by functional polymorphisms in polycyclic aromatic hydrocarbon metabolism genes. *PLoS ONE*, 2013; 8(11): e79110. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24260161>

Anthopolos R, Edwards SE, and Miranda ML. Effects of maternal prenatal smoking and birth outcomes extending into the normal range on academic performance in fourth grade in north carolina, USA. *Paediatric and Perinatal Epidemiology*, 2013; 27(6):564-74. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24134528>

Ravnborg TL, Jensen TK, Andersson AM, Toppari J, Skakkebaek NE, et al. Prenatal and adult exposures to smoking are associated with adverse effects on reproductive hormones, semen quality, final height and body mass index. *Human Reproduction*, 2011; 26(5):1000-11. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/21335416>

Lumley J, Chamberlain C, Dowswell T, Oliver S, Oakley L, et al. Interventions for promoting smoking cessation during pregnancy. *Cochrane Database of Systematic Reviews*, 2009; (3):CD001055. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/19588322>

Pisinger C and Godtfredsen NS. Is there a health benefit of reduced tobacco consumption? A systematic review. *Nicotine and Tobacco Research*, 2007; 9(6):631-46. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/17558820>

Office of Environmental Health Hazard Assessment California Air Resources Board. Health effects of exposure to environmental tobacco smoke: Final report, approved at the panel's June 24, 2005 meeting. Sacramento: California environmental protection agency cal/epa. 2005. Available from: <https://oehha.ca.gov/air/report/health-effects-exposure-environmental-tobacco-smoke-final-report>.

Gomez C, Berlin I, Marquis P, and Delcroix M. Expired air carbon monoxide concentration in mothers and their spouses above 5 ppm is associated with decreased fetal growth. *Preventive Medicine*, 2005; 40(1):10-5. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/15530575>

Matt GE, Quintana PJ, Hovell MF, Bernert JT, Song S, et al. Households contaminated by environmental tobacco smoke: Sources of infant exposures. *Tobacco Control*, 2004; 13(1):29-37. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/14985592>

### 3.8.1 Foetal growth and birthweight

Vojisavljevic, D, Rudd, D, Smith, R, & Kandasamy, Y. (2024). The Relationship between Maternal Smoking and Infant Birth Weight: Improving Accuracy through Urine Cotinine Analysis and Effective Medical Record Strategies. *Children (Basel)*, 11(8). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39201962>

Berlin, I, Goldzahl, L, Jusot, F, & Berlin, N. (2024). Do smoking abstinence periods among pregnant smokers improve birth weight? A secondary analysis of a randomised, controlled trial. *BMJ Open*, 14(3), e082876. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38485473>

Bailey, BA, Kopkau, H, Nadolski, K, & Dodge, P. (2024). Impact of in utero tobacco exposure on fetal growth: Amount of exposure and second trimester fetal growth measurements. *Neurotoxicol Teratol*, 102, 107334. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38360154>

Li, S, Cao, C, Watson, D, Yang, L, & Kharbanda, EO. (2023). Maternal smoking during pregnancy links to childhood blood pressure through birth weight and body mass index: NHANES 1999-2018. *J Hum Hypertens*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37773293>

Jumentier, B, Barrot, CC, Estavoyer, M, Tost, J, Heude, B, Francois, O, & Lepeule, J. (2023). High-Dimensional Mediation Analysis: A New Method Applied to Maternal Smoking, Placental DNA Methylation, and Birth Outcomes. *Environ Health Perspect*, 131(4), 47011. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37058433>

Bramsved, R, Marild, S, Bygdell, M, Kindblom, JM, & Lindh, I. (2023). Impact of BMI and smoking in adolescence and at the start of pregnancy on birth weight. *BMC Pregnancy Childbirth*, 23(1), 206. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36973709>

Tatsuta, N, Asato, K, Anai, A, Suzuki, T, Sakurai, K, Ota, C et al. (2023). Timing of Maternal Smoking Cessation and Newborn Weight, Height, and Head Circumference. *Obstet Gynecol*, 141(1), 119-125. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36701612>

Cajachagua-Torres, KN, Blaauwendraad, SM, El Marroun, H, Demmelmair, H, Koletzko, B, Gaillard, R., & Jaddoe, VWV. (2022). Fetal Exposure to Maternal Smoking and Neonatal Metabolite Profiles. *Metabolites*, 12(11). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36422240>

Barrio, E, Quiros, A, Lerma-Puertas, D, Labarta, JI, & Gascon-Catalan, A. (2022). Identification of miRNAs Involved in Foetal Growth Restriction Due to Maternal Smoking during Pregnancy. *J Clin Med*, 11(19). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36233676>

Diabelkova, J, Rimarova, K, Urdzik, P, Dorko, E, Houzvikova, A, Andrascikova, S et al. (2022). Influence of maternal smoking during pregnancy on birth outcomes. *Cent Eur J Public Health*, 30(Supplement), S32-S36. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35841223>

Hartel, TC, Turawa, EB, Oelofse, A, & De Smidt, JJ A. (2022). Effect of maternal cigarette smoking and alcohol consumption during pregnancy on birth weight and cardiometabolic risk factors in infants, children and adolescents: a systematic review protocol. *BMJ Open*, 12(7), e061811. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35840294>

Fuentes-Paez, G, Escaramis, G, Aguilar-Lacasana, S, Andrusaityte, S, Brantsaeter, AL, Casas, M et al. (2022). Study of the Combined Effect of Maternal Tobacco Smoking and Polygenic Risk Scores on Birth Weight and Body Mass Index in Childhood. *Front Genet*, 13, 867611. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35646076>

Suzuki, S. (2022). Habitual Smoking and Perinatal Outcomes in Japan. *Cureus*, 14(2), e22426 Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35223333>

Suzuki, M, Wakayama, R, Yamagata, Z, & Suzuki, K. (2022). Effect of maternal smoking during pregnancy on gestational weight gain and birthweight: A stratified analysis by pregestational weight status. *Tob Induc Dis*, 20, 10. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35125993>

Di, HK, Gan, Y, Lu, K, Wang, C, Zhu, Y, Meng, X et al. (2022). Maternal smoking status during pregnancy and low birth weight in offspring: systematic review and meta-analysis of 55 cohort studies published from 1986 to 2020. *World J Pediatr*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35089538>

Fernandez-Rodriguez, B, Gomez, AR, Jimenez Moreno, BS, de Alba, C, Galindo, A, Villalain, C et al. (2021). Smoking influence on early and late fetal growth. *J Perinat Med*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34929071>

Shittu, AAT, Kumar, BP, Okafor, U Berkelhamer, SK, Goniewicz, ML, & Wen, X. (2021). Changes in e-cigarette and cigarette use during pregnancy and their association with small-for-gestational-age birth. *Am J Obstet Gynecol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34864040>

Brink, LT, Nel, DG, Hall, DR, & Odendaal, HJ. (2021). The Intricate Interactions between Maternal Smoking and Drinking During Pregnancy and Birthweight Z-Scores of Preterm Births. *J Women's Health Care Manag*, 2(2). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34723283>

Taylor, EJ, Doh, P, Ziauddeen, N, Godfrey, KM, Berrington, A, & Alwan, NA. (2021). Maternal smoking behaviour across the first two pregnancies and small for gestational age birth: Analysis of the SLOPE (Studying Lifecourse Obesity PrEdictors) population-based cohort in the South of England. *PLoS One*, 16(11), e0260134. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34793557>

Karvonen, M, Saari, A, Sund, R, & Sankilampi, U. (2021). Maternal Smoking During Pregnancy and Offspring Head Growth in Comparison to Height and Weight Growth Up to 6 Years of Age: A Longitudinal Study. *Clin Epidemiol*, 13, 959-970. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34675684>

Tan, Y Barr, DB Ryan, PB, Fedirko, V, Sarnat, JA Gaskins, A et al. (2021). High-resolution metabolomics of exposure to tobacco smoke during pregnancy and adverse birth outcomes in the Atlanta African American maternal-child cohort. *Environ Pollut*, 292(Pt A), 118361. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34655695>

Osborne, JB, & Bailey, BA. (2021). Does it matter when I quit? Could I just cut down some? Links between trimester-specific smoking amount, preterm birth, and low birth weight. *Birth Defects Res*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34585853>

Shiohama, T, Hisada, A, Yamamoto, M, Sakurai, K, Takatani, R, Fujii, K et al. (2021). Decreased head circumference at birth associated with maternal tobacco smoke exposure during pregnancy on the Japanese prospective birth cohort study. *Sci Rep*, 11(1), 18949. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34556740>

OdendaalSareen, H. (2021). Association of Concomitant Drinking and Smoking during Pregnancy with Placental Abruption, Fetal Growth Restriction and Sudden Infant Death Syndrome (SIDS). *J Pulm Med*, 5(2). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34308437>

Antoun, E, Titcombe, P, Dalrymple, K, Kitaba, NT, Barton, SJ, Flynn, A et al (2021). DNA methylation signatures in cord blood associated with birthweight are enriched for dmCpGs previously associated with maternal hypertension or pre-eclampsia, smoking and folic acid intake. *Epigenetics*, 1-17. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33784941>

Carles, C, Albouy-Llaty, M, Dupuis, A, Rabouan, S, & Migeot, V. (2021). Comparison of the Effect on Fetal Growth of a Mixture of Atrazine and Nitrates in Drinking Water and of Active Tobacco Exposure during Pregnancy. *Int J Environ Res Public Health*, 18(4). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33672371>

Xu, R, Hong, X, Zhang, B, Huang, W, Hou, W, Wang, G et al (2021). DNA methylation mediates the effect of maternal smoking on offspring birthweight: a birth cohort study of multi-ethnic US mother-newborn pairs. *Clin Epigenetics*, 13(1), 47. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33663600>

Lewandowska, M, Wieckowska, B Sztorc, L. & Sajdak, S. (2020). Smoking and Smoking Cessation in the Risk for Fetal Growth Restriction and Low Birth Weight and Additive Effect of Maternal Obesity. *J Clin Med*, 9(11). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33138256>



O'Donnell, MM, Baird, J, Cooper, C Crozier, SR Godfrey, KM, Geary, M et al (2020). The Effects of Different Smoking Patterns in Pregnancy on Perinatal Outcomes in the Southampton Women's Survey. *Int J Environ Res Public Health*, 17(21). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33143153>

Pereira, RD, Rietveld, CA, & van Kippersluis, H. (2020). The Interplay between Maternal Smoking and Genes in Offspring Birth Weight. *medRxiv*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33173933>

Tairy, D, Weiner, E, Kovo, M, Zamir, AM, Gandelsman, E, Levy, M et al (2020). Fetal Growth Restriction in Hypertensive vs. Heavy Smoking Women-Placental Pathology, Ultrasound Findings, and Pregnancy Outcomes. *Reprod Sci*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33140325>

Wang, R, Sun, T, Yang, Q, Wang, J, Li, H et al (2020). Low birthweight of children is positively associated with mother's prenatal tobacco smoke exposure in Shanghai: a cross-sectional study. *BMC Pregnancy Childbirth*, 20(1), 603. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33032551>

No Authors listed. Re: "Mediation by Placental DNA Methylation of the Association of Prenatal Maternal Smoking and Birth Weight". (2020). *Am J Epidemiol*, 189(10), 1212. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32889530>

Smart, SJ, Nikaj, AN, Yu, L, Li, H, Yan, F, & Zhang, J. (2020). Association between maternal smoking during pregnancy and offspring overweight in U.S.-born children. *Pediatr Obes*, e12717. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32924334>

Knight-Agarwal, CR, Mellor, D, Georgousopoulos, EN, Krause, B, & Coglán, S. (2020). Maternal body mass index, smoking status and small for gestational age: an Australian retrospective cohort study. *Public Health*, 185, 381-385. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32755729>

Odendaal, H, Wright, C, Schubert, P, Boyd, TK, Robbers, DJ, Brink, L et al. (2020). Associations of maternal smoking and drinking with fetal growth and placental abruption. *Eur J Obstet Gynecol Reprod Biol*, 253, 95-102. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32862031>

Philips, EM, Santos, S, Trasande, L, Aurekoetxea, JJ, Barros, H, von Berg, A et al. (2020). Changes in parental smoking during pregnancy and risks of adverse birth outcomes and childhood overweight in Europe and North America: An individual participant data meta-analysis of 229,000 singleton births. *PLoS Med*, 17(8), e1003182. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32810184>

Chelchowska, M, Gajewska, J, Maciejewski, TM, Mazur, J, Oltarzewski, M, & Ambroszkiewicz, J. (2020). Associations between Maternal and Fetal Levels of Total Adiponectin, High Molecular Weight Adiponectin, Selected Somatomedins, and Birth Weight of Infants of Smoking and Non-Smoking Mothers. *Int J Environ Res Public Health*, 17(13). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32635165>

Yang, Y, Wu, F, Dwyer, T, Antony, B, Winzenberg, T, & Jones, G. (2020). Associations of Breastfeeding, Maternal Smoking, and Birth Weight With Bone Density and Microarchitecture in

Young Adulthood: a 25-Year Birth-Cohort Study. *J Bone Miner Res*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32638468>

Nakamura, A, Pryor, L, Ballon, M, Lioret, S, Heude, B, Charles, MA et al. (2020). Maternal education and offspring birth weight for gestational age: the mediating effect of smoking during pregnancy. *Eur J Public Health*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32529232>

Kamiya, M, Suzuki, K, & Yamagata, Z. (2020). Effect of maternal active smoking during pregnancy on the trajectory of childhood body mass index: A multilevel analysis using quartiles of birthweight. *Tob Induc Dis*, 18, 34. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32382256>

Mitsuda, N, JP, NA, Eitoku, M, Maeda, N, Fujieda, M, Suganuma, N et al (2020). Association between maternal active smoking during pregnancy and placental weight: The Japan environment and Children's study. *Placenta*, 94, 48-53. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32421535>

Lamm, SH, Ferdosi, H, Boroje, IJ, Afari-Dwamena, NA, Qian, L, Dash, ED et al (2020). Maternal tobacco use: A third-trimester risk factor for small-for-gestational-age pregnancy outcome. *Prev Med Rep*, 18, 101080. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32226732>

Mallma, P, Carcamo, C, & Kaufman, JS. (2020). The impact of anti-tobacco legislation on birth weight in Peru. *Glob Health Res Policy*, 5, 5. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32161814>

Chattrapiban, T, Smit, HA, Wijga, AH, Brunekreef, B, Vonk, JM, Gehring, U, & van Rossem, L. (2020). The joint effect of maternal smoking during pregnancy and maternal pre-pregnancy overweight on infants' term birth weight. *BMC Pregnancy Childbirth*, 20(1), 132. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32106826>

Rumrich, IK, Vahakangas, K, Viluksela, M, & Hanninen, O. (2020). Chained Risk Assessment for Life-Long Disease Burden of Early Exposures - Demonstration of Concept Using Prenatal Maternal Smoking. *Int J Environ Res Public Health*, 17(5). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32102814>

Suter, MA, & Aagaard, KM. (2020). The impact of tobacco chemicals and nicotine on placental development. *Prenat Diagn*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32010988>

Yang Q, Millard LAC, and Davey Smith G. Proxy gene-by-environment mendelian randomization study confirms a causal effect of maternal smoking on offspring birthweight, but little evidence of long-term influences on offspring health. *International Journal of Epidemiology*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31834381>

Veisani Y, Jenabi E, Delpisheh A, and Khazaei S. Effect of prenatal smoking cessation interventions on birth weight: Meta-analysis. *Journal of Maternal-Fetal and Neonatal Medicine*, 2019; 32(2):332-8. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28889768>

Sowell K, Holt R, Uriu-Adams J, Chambers C, Coles C, et al. Alcohol consumption and smoking during pregnancy alters maternal plasma fatty acid composition: Association with fetal alcohol spectrum

disorders (p11-028-19). *Curr Dev Nutr*, 2019; 3(Suppl 1). Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/31224760>

Pintican D, Poienar AA, Strilciuc S, and Mihiu D. Effects of maternal smoking on human placental vascularization: A systematic review. *Taiwan J Obstet Gynecol*, 2019; 58(4):454-9. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/31307732>

Pettersson E, D'Onofrio B, and Lichtenstein P. Exploring the association of sex differences and exposure to maternal smoking with low fetal growth-reply. *JAMA Psychiatry*, 2019. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/31141095>

Lindstrom L, Wikstrom AK, Bergman E, Mulic-Lutvica A, Hogberg U, et al. Postnatal growth in children born small for gestational age with and without smoking mother. *Pediatric Research*, 2019.

Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30808020>

Lev-Ari L, Bachner-Melman R, Zohar AH, Ebstein R, and Mankuta D. Weight gain, feeding and eating in the first year of life of babies of smoking and non-smoking mothers. *Early Human Development*, 2019; 140:104889. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31670174>

Jha MK, Minhajuddin A, and Trivedi M. Exploring the association of sex differences and exposure to maternal smoking with low fetal growth. *JAMA Psychiatry*, 2019. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/31141096>

Cardenas A, Lutz SM, Everson TM, Perron P, Bouchard L, et al. Placental DNA methylation mediates the association of prenatal maternal smoking on birth weight. *American Journal of Epidemiology*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31497855>

Aubin HJ, Berlin I, and Ekblad M. Exploring the association of sex differences and exposure to maternal smoking with low fetal growth. *JAMA Psychiatry*, 2019. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/31141101>

Zheng BK and Li N. Methodological concerns about a systematic review and meta-analysis of maternal active smoking during pregnancy and low birth weight. *Nicotine and Tobacco Research*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29370411>

Witt SH, Frank J, Gilles M, Lang M, Treutlein J, et al. Impact on birth weight of maternal smoking throughout pregnancy mediated by DNA methylation. *BMC Genomics*, 2018; 19(1):290. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/29695247>

Voigt M, Pelc A, Durrani NUR, Rochow N, Weller J, et al. Maternal body mass index and smoking during pregnancy do not affect the proportional sexual dimorphism for birth weight- an analysis of the german perinatal survey. *Anthropologischer Anzeiger*, 2018. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/30548052>

Schechter J, Do EK, Zhang JJ, Hoyo C, Murphy SK, et al. Effect of prenatal smoke exposure on birth weight: The moderating role of maternal depressive symptoms. *Nicotine and Tobacco Research*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30590728>

Sabra S, Malmqvist E, Almeida L, Gratacos E, and Gomez Roig MD. Differential correlations between maternal hair levels of tobacco and alcohol with fetal growth restriction clinical subtypes. *Alcohol*, 2018; 70:43-9. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29778069>

Quelhas D, Kompala C, Wittenbrink B, Han Z, Parker M, et al. The association between active tobacco use during pregnancy and growth outcomes of children under five years of age: A systematic review and meta-analysis. *BMC Public Health*, 2018; 18(1):1372. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30545322>

Qu W, Yuan L, Xiang Y, Jia X, and Zhao Z. Glutathione s-transferase m1 and t1 polymorphisms, and their interactions with smoking on risk of low birth weight: A meta-analysis. *Journal of Maternal-Fetal and Neonatal Medicine*, 2018:1-301. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30153758>

Pereira P, Da Mata FAF, Figueiredo A, de Andrade KRC, and Pereira MG. Response to the letter: Methodological concerns about a systematic review and meta-analysis of maternal active smoking during pregnancy and low birth weight. *Nicotine and Tobacco Research*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29617904>

Owili PO, Muga MA, and Kuo HW. Gender difference in the association between environmental tobacco smoke and birth weight in africa. *International Journal of Environmental Research and Public Health*, 2018; 15(7). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29973544>

Huang L, Luo Y, Wen X, He YH, Peng D, et al. Gene-gene-environment interactions of prenatal exposed to environmental tobacco smoke, cyp1a1 and gsts polymorphisms on full-term low birth weight: Relationship of maternal passive smoking, gene polymorphisms and ft-lbw. *Journal of Maternal-Fetal and Neonatal Medicine*, 2018:1-251. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29338478>

Valeri L, Reese SL, Zhao S, Page CM, Nystad W, et al. Misclassified exposure in epigenetic mediation analyses. Does DNA methylation mediate effects of smoking on birthweight? *Epigenomics*, 2017; 9(3):253-65. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28234025>

Tong VT, England LJ, Rockhill KM, and D'Angelo DV. Risks of preterm delivery and small for gestational age infants: Effects of nondaily and low-intensity daily smoking during pregnancy. *Paediatric and Perinatal Epidemiology*, 2017; 31(2):144-8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28181676>

Shisler S, Eiden RD, Molnar DS, Schuetze P, Huestis M, et al. Smoking in pregnancy and fetal growth: The case for more intensive assessment. *Nicotine and Tobacco Research*, 2017; 19(5):525-31. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28403474>

Shenassa ED. Maternal smoking during pregnancy and offspring weight gain: A consideration of competing explanations. *Paediatric and Perinatal Epidemiology*, 2017; 31(5):409-11. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28869795>

Sabra S, Gratacos E, and Gomez Roig MD. Smoking-induced changes in the maternal immune, endocrine, and metabolic pathways and their impact on fetal growth: A topical review. *Fetal*

Diagnosis and Therapy, 2017; 41(4):241-50. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/28249267>

Richmond RC and Joubert BR. Contrasting the effects of intra-uterine smoking and one-carbon micronutrient exposures on offspring DNA methylation. *Epigenomics*, 2017; 9(3):351-67. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28234021>

Pathirathna ML, Abeywickrama HM, Sekijima K, Sadakata M, Fujiwara N, et al. Effects of prenatal tobacco and wood-fuel smoke exposure on birth weight in sri lanka. *Healthcare (Basel)*, 2017; 5(4). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28954431>

Molnar DS, Rancourt D, Schlauch R, Wen X, Huestis MA, et al. Tobacco exposure and conditional weight-for-length gain by 2 years of age. *Journal of Pediatric Psychology*, 2017. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28169405>

Luke S and Kirby RS. Timing of maternal tobacco exposure, hypertension, and risk of singleton small-for-gestational age infants. *American Journal of Perinatology*, 2017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28895617>

Lockhart F, Liu A, Champion BL, Peek MJ, Nanan RKH, et al. The effect of cigarette smoking during pregnancy on endocrine pancreatic function and fetal growth: A pilot study. *Front Public Health*, 2017; 5:314. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29209605>

Kvalvik LG, Haug K, Klungsoyr K, Morken NH, DeRoo LA, et al. Maternal smoking status in successive pregnancies and risk of having a small for gestational age infant. *Paediatric and Perinatal Epidemiology*, 2017; 31(1):21-8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27981584>

Kezios K, Gu Y, Liu X, Cirillo P, Tarrant D, et al. Hydroxylated polychlorinated biphenyl metabolites (oh-pcbs), maternal smoking and size at birth. *Reproductive Toxicology*, 2017. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28314564>

Fleisch AF, Rifas-Shiman SL, Rokoff LB, Hivert MF, Mantzoros CS, et al. Associations of maternal prenatal smoking with umbilical cord blood hormones: The project viva cohort. *Metabolism: Clinical and Experimental*, 2017; 72:18-26. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28641780>

de Brito ML, Nunes M, Bernardi JR, Bosa VL, Goldani MZ, et al. Somatic growth in the first six months of life of infants exposed to maternal smoking in pregnancy. *BMC Pediatrics*, 2017; 17(1):67. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28279149>

Dare S, Mackay DF, and Pell JP. Correction: Relationship between smoking and obesity: A cross-sectional study of 499,504 middle-aged adults in the uk general population. *PLoS ONE*, 2017; 12(2):e0172076. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28178349>

Cooper KM, Bernstein IM, Skelly JM, Heil SH, and Higgins ST. The independent contribution of uterine blood flow to birth weight and body composition in smoking mothers. *American Journal of Perinatology*, 2017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29183095>

Berlin I, Golmard JL, Jacob N, Tanguy ML, and Heishman SJ. Cigarette smoking during pregnancy: Do complete abstinence and low level cigarette smoking have similar impact on birth weight? *Nicotine*

and Tobacco Research, 2017; 19(5):518-24. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/28403475>

Abraham M, Alramadhan S, Iniguez C, Duijts L, Jaddoe VW, et al. A systematic review of maternal smoking during pregnancy and fetal measurements with meta-analysis. PLoS ONE, 2017; 12(2):e0170946. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28231292>

Zheng W, Suzuki K, Tanaka T, Kohama M, Yamagata Z, et al. Association between maternal smoking during pregnancy and low birthweight: Effects by maternal age. PLoS ONE, 2016; 11(1):e0146241. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26795494>

Suzuki K, Shinohara R, Sato M, Otawa S, and Yamagata Z. Association between maternal smoking during pregnancy and birth weight: An appropriately adjusted model from the japan environment and children's study. Journal of Epidemiology, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26902166>

Scott-Goodwin AC, Puerto M, and Moreno I. Toxic effects of prenatal exposure to alcohol, tobacco and other drugs. Reproductive Toxicology, 2016; 61:120-30. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27037188>

Schubert C. Smoking out fetal growth restriction. Biology of Reproduction, 2016; 94(1):3. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26758311>

Rodosthenous RS, Burris HH, Svensson K, Amarasiriwardena CJ, Cantoral A, et al. Prenatal lead exposure and fetal growth: Smaller infants have heightened susceptibility. Environ Int, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27923585>

Parker SE, Collett BR, Speltz ML, and Werler MM. Prenatal smoking and childhood behavior problems: Is the association mediated by birth weight? J Dev Orig Health Dis, 2016:1-9. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26880155>

Mine T, Tanaka T, Nakasone T, Itokazu T, Yamagata Z, et al. Maternal smoking during pregnancy and rapid weight gain from birth to early infancy. Journal of Epidemiology, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28142041>

Milnerowicz-Nabzdyk E, Bizon A, and Zimmer M. How does tobacco smoke affect fetal growth potential in the first trimester of pregnancy as measured by volume parameters of the fetus, trophoblast, and gestational sac? Reprod Sci, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27481924>

Marceau K, Palmer RH, Neiderhiser JM, Smith TF, McGueary JE, et al. Passive rge or developmental gene-environment cascade? An investigation of the role of xenobiotic metabolism genes in the association between smoke exposure during pregnancy and child birth weight. Behavior Genetics, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26803317>

Kobayashi S, Sata F, Sasaki S, Braimoh TS, Araki A, et al. Combined effects of ahr, cyp1a1, and xrcc1 genotypes and prenatal maternal smoking on infant birth size: Biomarker assessment in the hokkaido study. Reproductive Toxicology, 2016; 65:295-306. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27592400>

Huuskonen P, Amezaga MR, Bellingham M, Jones LH, Storvik M, et al. The human placental proteome is affected by maternal smoking. *Reproductive Toxicology*, 2016; 63:22-31. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27189315>

Heinz-Partington S, Condous G, and Mongelli M. Differential effects of cigarette smoking on birth weight by maternal body mass index. *Journal of Obstetrics and Gynaecology*, 2016:1-3. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27013353>

Hayes C, Kearney M, O'Carroll H, Zgaga L, Geary M, et al. Patterns of smoking behaviour in low-income pregnant women: A cohort study of differential effects on infant birth weight. *International Journal of Environmental Research and Public Health*, 2016; 13(11). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27801861>

Erickson AC, Ostry A, Chan HM, and Arbour L. Air pollution, neighbourhood and maternal-level factors modify the effect of smoking on birth weight: A multilevel analysis in british columbia, canada. *BMC Public Health*, 2016; 16(1):585. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27784277>

Dodds L, Woolcott CG, Weiler H, Spencer A, Forest JC, et al. Vitamin d status and gestational diabetes: Effect of smoking status during pregnancy. *Paediatric and Perinatal Epidemiology*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26848814>

Chelchowska M, Ambroszkiewicz J, Gajewska J, Jablonska-Glab E, Maciejewski TM, et al. Hcpidin and iron metabolism in pregnancy: Correlation with smoking and birth weight and length. *Biological Trace Element Research*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26785641>

Bao W, Michels KB, Tobias DK, Li S, Chavarro JE, et al. Parental smoking during pregnancy and the risk of gestational diabetes in the daughter. *International Journal of Epidemiology*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26748845>

Wrzesniak M, Kepinska M, Bizon A, Milnerowicz-Nabzdyk E, and Milnerowicz H. Transferrin sialylation in smoking and non-smoking pregnant women with intrauterine growth restriction. *Fetal and Pediatric Pathology*, 2015:1-9. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26470653>

Wang A, Zsengeller ZK, Hecht JL, Buccafusca R, Burke SD, et al. Excess placental secreted frizzled-related protein 1 in maternal smokers impairs fetal growth. *Journal of Clinical Investigation*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26413870>

Vila Candel R, Soriano-Vidal FJ, Hevilla Cucarella E, Castro-Sanchez E, and Martin-Moreno JM. Tobacco use in the third trimester of pregnancy and its relationship to birth weight. A prospective study in spain. *Women Birth*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26166212>

Kupers LK, Xu X, Jankipersadsing SA, Vaez A, la Bastide-van Gemert S, et al. DNA methylation mediates the effect of maternal smoking during pregnancy on birthweight of the offspring. *International Journal of Epidemiology*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25862628>

Knopik VS, Marceau K, Palmer RH, Smith TF, and Heath AC. Maternal smoking during pregnancy and offspring birth weight: A genetically-informed approach comparing multiple raters. *Behavior Genetics*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26494459>

Gibbs K, Collaco JM, and McGrath-Morrow SA. Impact of tobacco smoke and nicotine exposure on lung development. *Chest*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26502117>

Currie LM, Tolley EA, Thodosoff JM, Kerling EH, Sullivan DK, et al. Long chain polyunsaturated fatty acid supplementation in infancy increases length- and weight-for-age but not bmi to 6 years when controlling for effects of maternal smoking. *Prostaglandins Leukotrienes and Essential Fatty Acids*, 2015; 98:1-6. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25936840>

Bouwland-Both MI, van Mil NH, Tolhoek CP, Stolk L, Eilers PH, et al. Prenatal parental tobacco smoking, gene specific DNA methylation, and newborns size: The generation r study. *Clin Epigenetics*, 2015; 7(1):83. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26265957>

Spracklen CN, Ryckman KK, Harland K, and Saftlas AF. Effects of smoking and preeclampsia on birth weight for gestational age. *Journal of Maternal-Fetal and Neonatal Medicine*, 2014:1-6. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24893615>

Rillamas-Sun E, Harlow SD, and Randolph JF, Jr. Grandmothers' smoking in pregnancy and grandchildren's birth weight: Comparisons by grandmother birth cohort. *Maternal and Child Health Journal*, 2014; 18(7):1691-8. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/24337862>

Pembrey M, Northstone K, Gregory S, Miller LL, and Golding J. Is the growth of the child of a smoking mother influenced by the father's prenatal exposure to tobacco? A hypothesis generating longitudinal study. *BMJ Open*, 2014; 4(7):e005030. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25015471>

Okah FA, Oshodi AA, Liu Y, and Cai J. Does multiple gestation impact birthweight deficit from smoking? *Journal of Perinatology*, 2014; 34(2):112-5. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24310445>

Miller LL, Pembrey M, Davey Smith G, Northstone K, and Golding J. Is the growth of the fetus of a non-smoking mother influenced by the smoking of either grandmother while pregnant? *PLoS ONE*, 2014; 9(2):e86781. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/24504157>

Garrabou G, Hernandez AS, Catalan Garcia M, Moren C, Tobias E, et al. Molecular basis of reduced birth weight in smoking pregnant women: Mitochondrial dysfunction and apoptosis. *Addiction Biology*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25186090>

Fowler PA, Bhattacharya S, Flannigan S, Drake AJ, and O'Shaughnessy PJ. Maternal cigarette smoking and effects on androgen action in male offspring: Unexpected effects on second-trimester anogenital distance. *Journal of Clinical Endocrinology and Metabolism*, 2011; 96(9):E1502-6. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/21752894>

Secker-Walker RH and Vacek PM. Infant birth weight as a measure of harm reduction during smoking cessation trials in pregnancy. *Health Education and Behavior*, 2002; 29(5):557-69. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/12238700>



England L, Kendrick J, Gargiullo P, Zahniser S, and Hannon W. Measures of maternal tobacco exposure and infant birth weight at term. *American Journal of Epidemiology*, 2001; 153(10):954–60. Available from: <http://aje.oxfordjournals.org/cgi/content/full/153/10/954>

Ellard GA, Johnstone FD, Prescott RJ, Ji-Xian W, and Jian-Hua M. Smoking during pregnancy: The dose dependence of birthweight deficits. *British Journal of Obstetrics and Gynaecology*, 1996; 103(8):806-13. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/8760712>

### 3.8.2 Perinatal and infant death

**Peng, J, Petersen, AB, Shavlik, D, Xiao, D, Yel, D, Kheam, T, & Singh, PN. (2024). Smoked, smokeless, and poly-tobacco use during pregnancy in relation to infant mortality in Cambodia: Findings from a nationwide sample. *Tob Induc Dis*, 22. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39315292>**

Sun, J, Liu, X, Zhao, M, Magnussen, CG, & Xi, B. (2023). Dose-response association between maternal smoking during pregnancy and the risk of infant death: a nationwide, population-based, retrospective cohort study. *EClinicalMedicine*, 57, 101858. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36879656>

Jawed, A, & Jassal, M. (2022). When there is no air, the cradle will fall: A narrative review of tobacco-related content across infant safe sleep interventions. *Front Pediatr*, 10, 994702. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36545661>

Wennergren G. Smoking in pregnancy and bed sharing, a fatal combination. *Acta Paediatrica*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30004592>

Vivekanandarajah A, Waters KA, and Machaalani R. Cigarette smoke exposure effects on the brainstem expression of nicotinic acetylcholine receptors (nachrs), and on cardiac, respiratory and sleep physiologies. *Respiratory Physiology and Neurobiology*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30031221>

Rossor T, Ali K, Bhat R, Treneer R, Rafferty G, et al. The effects of sleeping position, maternal smoking and substance misuse on the ventilatory response to hypoxia in the newborn period. *Pediatric Research*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29976971>

Lavezzi AM. Toxic effect of cigarette smoke on brainstem nicotinic receptor expression: Primary cause of sudden unexplained perinatal death. *Toxics*, 2018; 6(4). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30340403>

[https://res.mdpi.com/toxics/toxics-06-00063/article\\_deploy/toxics-06-00063.pdf?filename=&attachment=1](https://res.mdpi.com/toxics/toxics-06-00063/article_deploy/toxics-06-00063.pdf?filename=&attachment=1)

Bhatta DN and Glantz S. Parental tobacco use and child death: Analysis of data from demographic and health surveys from south and south east asian countries. *International Journal of Epidemiology*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30277524>

<https://academic.oup.com/ije/advance-article-abstract/doi/10.1093/ije/dyy209/5113251?redirectedFrom=fulltext>

Morales-Suarez-Varela M, Nohr EA, Olsen J, and Bech BH. Potential combined effects of maternal smoking and coffee intake on foetal death within the danish national birth cohort. *European Journal of Public Health*, 2017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29293997>

Lavezzi AM, Ferrero S, Roncati L, Pisciolli F, Matturri L, et al. Nicotinic receptor abnormalities in the cerebellar cortex of sudden unexplained fetal and infant death victims-possible correlation with maternal smoking. *ASN Neuro*, 2017; 9(4):1759091417720582. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28735558>

Ding G, Yu J, Chen Y, Vinturache A, Pang Y, et al. Maternal smoking during pregnancy and necrotizing enterocolitis-associated infant mortality in preterm babies. *Sci Rep*, 2017; 7:45784. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28361963>

Pineles BL, Hsu S, Park E, and Samet JM. Systematic review and meta-analyses of perinatal death and maternal exposure to tobacco smoke during pregnancy. *American Journal of Epidemiology*, 2016; 184(2):87-97. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27370789>

Morales-Suarez-Varela M, Nohr EA, Bech BH, Wu C, and Olsen J. Smoking, physical exercise, bmi and late foetal death: A study within the danish national birth cohort. *European Journal of Epidemiology*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27535278>

Bjornholt SM, Leite M, Albieri V, Kjaer SK, and Jensen A. Maternal smoking during pregnancy and risk of stillbirth: Results from a nationwide danish register-based cohort study. *Acta Obstetrica et Gynecologica Scandinavica*, 2016; 95(11):1305-12. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27580369>

Ali K, Rosser T, Bhat R, Wolff K, Hannam S, et al. Antenatal smoking and substance-misuse, infant and newborn response to hypoxia. *Pediatric Pulmonology*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27723956>

Varner MW, Silver RM, Rowland Hogue CJ, Willinger M, Parker CB, et al. Association between stillbirth and illicit drug use and smoking during pregnancy. *Obstetrics and Gynecology*, 2014; 123(1):113-25. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24463671>

Dietz P, England L, Shapiro-Mendoza C, Tong V, Farr S, et al. Infant morbidity and mortality attributable to prenatal smoking in the us. *American Journal of Preventive Medicine*, 2010; 39(1):45–52. Available from: <http://www.ajpm-online.net/article/PIIS0749379710002588/fulltext>

### *3.8.2.1 Stillbirth*

Lavezzi, AM, Pusioli, T, & Paradiso, B. (2022). Harmful Effect of Intrauterine Smoke Exposure on Neuronal Control of "Fetal Breathing System" in Stillbirths. *Int J Environ Res Public Health*, 19(7). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35409845>

Odendaal, H, Dukes, KA, Elliott, AJ, Willinger, M, Sullivan, LM, Tripp, T et al. (2021). Association of Prenatal Exposure to Maternal Drinking and Smoking With the Risk of Stillbirth. *JAMA Netw Open*, 4(8), e2121726. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34424306>

Qu, Y, Chen, S, Pan, H, Zhu, H, Yan, C, Zhang, S, & Jiang, Y. (2020). Exposure to tobacco smoke and stillbirth: a national prospective cohort study in rural China. *Journal of Epidemiology and Community Health*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31919145>

Australian Institute of Health and Welfare. Stillbirths and neonatal deaths in australia 2015 and 2016: In brief. Canberra: AIHW, 2019. Available from:

<https://www.aihw.gov.au/getmedia/12d0156d-b343-403f-ab62-8700861edeca/aihw-per-102.pdf.aspx?inline=true>.

Odendaal HJ, Geerts L, Nel DG, Brink LT, Hitchcock E, et al. Effects of alcohol, cigarettes, methamphetamine and marijuana exposure during pregnancy on maternal serum alpha-fetoprotein levels at 20-24 weeks' gestation. *J Pediatr Neonatal Care*, 2018; 8(1). Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/31106259>

Hossain MS, Kypri K, Rahman B, and Milton AH. Smokeless tobacco consumption and stillbirth: Population-based case-control study in rural bangladesh. *Drug and Alcohol Review*, 2017. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28543690>

Marufu TC, Ahankari A, Coleman T, and Lewis S. Maternal smoking and the risk of still birth: Systematic review and meta-analysis. *BMC Public Health*, 2015; 15:239. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/25885887>

### 3.8.2.2 Sudden infant death syndrome

Ostfeld, BM, Schwartz-Soicher, O, Reichman, NE, & Hegyi, T. (2022). Racial differences in the impact of maternal smoking on sudden unexpected infant death. *J Perinatol*. Retrieved from

<https://www.ncbi.nlm.nih.gov/pubmed/36271297>

Hauck, FR, & Blackstone, SR. (2022). Maternal Smoking, Alcohol and Recreational Drug Use and the Risk of SIDS Among a US Urban Black Population. *Front Pediatr*, 10, 809966. Retrieved from

<https://www.ncbi.nlm.nih.gov/pubmed/35620144>

OdendaalSareen, H. (2021). Association of Concomitant Drinking and Smoking during Pregnancy with Placental Abruption, Fetal Growth Restriction and Sudden Infant Death Syndrome (SIDS). *J Pulm Med*, 5(2). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34308437>

Bednarczuk, N, Milner, A, & Greenough, A. (2020). The Role of Maternal Smoking in Sudden Fetal and Infant Death Pathogenesis. *Front Neurol*, 11, 586068. Retrieved from

<https://www.ncbi.nlm.nih.gov/pubmed/33193050>

Elliott, AJ, Kinney, HC, Haynes, RL, Dempers, JD, Wright, C, Fifer, WP et al (2020). Concurrent prenatal drinking and smoking increases risk for SIDS: Safe Passage Study report. *EClinicalMedicine*, 19, 100247. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32140668>

MacFarlane M, Mitchell EA, Thompson JMD, Lawton B, Zuccollo J, et al. Smoking in pregnancy a key factor for sudden infant death among maori. *Acta Paediatrica*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29869345>

Mitchell EA, Thompson JM, Zuccollo J, MacFarlane M, Taylor B, et al. The combination of bed sharing and maternal smoking leads to a greatly increased risk of sudden unexpected death in infancy: The new zealand sudi nationwide case control study. *New Zealand Medical Journal*, 2017; 130(1456):52-64. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28571049>

Singh GP, Chowdhury T, Bindu B, and Schaller B. Sudden infant death syndrome - role of trigeminocardiac reflex: A review. *Front Neurol*, 2016; 7:221. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27994573>

McDonald FB, Chandrasekharan K, Wilson RJ, and Hasan SU. Interactive effects of maternal cigarette smoke, heat stress, hypoxia and lipopolysaccharide (lps) on neonatal cardiorespiratory and cytokine responses. *American Journal of Physiology. Regulatory, Integrative and Comparative Physiology*, 2016:ajpregu 00062 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27733384>

Sawnani H, Olsen E, and Simakajornboon N. The effect of in utero cigarette smoke exposure on development of respiratory control: A review. *Pediatric Allergy, Immunology, and Pulmonology*, 2010; 23(3):161-7. Available from: <https://www.liebertpub.com/doi/10.1089/ped.2010.0036>

### 3.8.3 Birth defects

Vathulya, M, Singh, N, Naithani, M, & Kessler, P. (2024). An intercontinental comparison of the influence of smoking on the occurrence of nonsyndromic cleft lip and palate: a meta-analysis and systematic review. *Arch Craniofac Surg*, 25(2), 51-61. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38742331>

Liu, B, Zhao, S, Ma, L, Zang, T, Huang, C, & Tang, X. (2023). Bioinformatics Analysis of Hub Genes Involved in Smoke-Induced Hemifacial Microsomia Pathogenesis. *J Craniofac Surg*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37665067>

de Andrade, RS, Oliveira, FES, Martelli, DRB, de Barros, LM, & Martelli Junior, H. (2023). Maternal consumption of caffeine and second-hand tobacco smoke as risk factors for the development of oral clefts. *Clinics (Sao Paulo)*, 78, 100266. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37567043>

Souza, GS, Freitas, IMM, Souza, JC, Miraglia, SM, & Paccola, CC. (2023). Transgenerational effects of maternal exposure to nicotine on structures of pituitary-gonadal axis of rats. *Toxicol Appl Pharmacol*, 468, 116525. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37076090>

Ye, ZH, Chen, HS, Zhang, ZC, Wang, X, Liu, X, & Wei, GH. (2023). Parental smoking and risk of hypospadias: An updated meta-analysis of observational studies. *Front Pediatr*, 11, 1003037. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36911013>

Zhang, Q, Zhang, ZC, He, XY, Liu, ZM, Wei, GH, & Liu, X. (2022). Maternal smoking during pregnancy and the risk of congenital urogenital malformations: A systematic review and meta-analysis. *Front Pediatr*, 10, 973016. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36263151>

Lindbo, D, Arendt, LH, Ernst, A, Lunddorf, LLH, Brix, N, & Ramlau-Hansen, CH. (2022). Maternal Cigarette Smoking During Pregnancy and Genital Anomalies in Boys: A Register-Based Cohort and Sibling-Matched Design Study. *Clin Epidemiol*, 14, 901-910. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35912163>

Davies, KJM, Richmond, S, Medeiros-Mirra, RJ, Abbas, HH, Wilson-Nagrani, CE, Davis, MG & Zhurov, A. (2022). The effect of maternal smoking and alcohol consumption on lip morphology. *J Orthod*, 14653125221094337. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35723071>

Carlson, JC, Shaffer, JR, Deleyiannis, F, Hecht, JT, Wehby, GL, Christensen, K et al. (2022). Genome-wide Interaction Study Implicates VGLL2 and Alcohol Exposure and PRL and Smoking in Orofacial Cleft Risk. *Front Cell Dev Biol*, 10, 621261. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35223824>

Yang, L, Wang, H, Yang, L, Zhao, M, Guo, Y, Bovet, P, & Xi, B. (2022). Maternal cigarette smoking before or during pregnancy increases the risk of birth congenital anomalies: a population-based retrospective cohort study of 12 million mother-infant pairs. *BMC Med*, 20(1), 4. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35012532>

Sagawa, Y, Ogawa, T, Matsuyama, Y, Nakagawa Kang, J, Yoshizawa Araki, M, Unnai Yasuda, Y et al. (2021). Association between Smoking during Pregnancy and Short Root Anomaly in Offspring. *Int J Environ Res Public Health*, 18(21). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34770175>

Khan, MFJ, Little, J, Mossey, PA, Butali, A, Autelitano, L, Meazzini, MC, & Rubini, M. (2021). MTHFR promoter methylation might mitigate the effect of smoking at the level of LINE-1 in cleft lip tissues: A preliminary study. *Birth Defects Res*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34668347>

Fell, M, Dack, K, Chummun, S, Sandy, J, Wren, Y, & Lewis, S. (2021). Maternal Cigarette Smoking and Cleft Lip and Palate: A Systematic Review and Meta-Analysis. *Cleft Palate Craniofac J*, 10556656211040015. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34569861>

Tsuchida, A, Hamazaki, K, Kigawa, M, Tanaka, T, Ito, M, Inadera, H et al (2021). Association between maternal smoking history and congenital anomalies in children: results from the Japan Environment and Children's Study. *Congenit Anom (Kyoto)*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34041797>

Auslander, A, McKean-Cowdin, R, Brindopke, F, Sylvester, B, DiBona, M, Magee, K et al (2020). The role of smoke from cooking indoors over an open flame and parental smoking on the risk of cleft lip and palate: A case- control study in 7 low-resource countries. *J Glob Health*, 10(2), 020410. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33110573>

Kizilay, DO, Aydin, C, Aygun, AP Tuhan, HU, & Olukman, O. (2020). Prenatal smoke exposure is associated with increased anogenital distance in female infants: a prospective case-control study. *J Pediatr Endocrinol Metab*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33035191>

Yin, C, Cai, H, Yang, D, Jian, Y, Zhang, J, Li, Z, & Wang, D. (2020). Cigarette smoke induced neural tube defects by down-regulating noggin expression. *Birth Defects Res*, e21804. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32949110>

Kruse, T, Mangold, E, & Braumann, B. (2020). Impact of Maternal Smoking on Nonsyndromic Clefts: Sex-Specific Associations With Side and Laterality. *Cleft Palate Craniofac J*, 1055665620951099. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32844678>

Driul, L, & Londero, AP. (2020). Birth defects and periconception smoking. *Am J Obstet Gynecol*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32534842>

Yu C, Wei Y, Tang X, Liu B, Shen L, et al. Correction to: Maternal smoking during pregnancy and risk of cryptorchidism: A systematic review and meta-analysis. *European Journal of Pediatrics*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30617516>

Yu C, Wei Y, Tang X, Liu B, Shen L, et al. Maternal smoking during pregnancy and risk of cryptorchidism: A systematic review and meta-analysis. *European Journal of Pediatrics*, 2019; 178(3):287-97. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30465272>

Yang Y, Wang C, Gan Y, Jiang H, Fu W, et al. Maternal smoking during pregnancy and the risk of strabismus in offspring: A meta-analysis. *Acta Ophthalmol*, 2019; 97(4):353-63. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30402966>

Ramakrishnan R, Stuart AL, Salemi JL, Chen H, O'Rourke K, et al. Maternal exposure to ambient cadmium levels, maternal smoking during pregnancy, and congenital diaphragmatic hernia. *Birth Defects Res*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31334919>

Perry MF, Mulcahy H, and DeFranco EA. Influence of periconception smoking behavior on birth defect risk. *American Journal of Obstetrics and Gynecology*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30790570>

Haaland OA, Romanowska J, Gjerdevik M, Lie RT, Gjessing HK, et al. A genome-wide scan of cleft lip triads identifies parent-of-origin interaction effects between *ank3* and maternal smoking, and between *arhgef10* and alcohol consumption. *F1000Res*, 2019; 8:960. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31372216>

Wilunda C, Yoshida S, Tanaka S, Kanazawa Y, Kimura T, et al. Exposure to tobacco smoke prenatally and during infancy and risk of hearing impairment among children in japan: A retrospective cohort study. *Paediatric and Perinatal Epidemiology*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29873090>

Saxena P, Pradhan D, Verma R, Kumar SN, Deval R, et al. Up-regulation of fibroblast growth factor receptor 1 due to prenatal tobacco exposure can lead to developmental defects in new born. *Journal of Maternal-Fetal and Neonatal Medicine*, 2018:1-12. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30428736>

Pi X, Li Z, Jin L, Liu J, Zhang Y, et al. Secondhand smoke during the periconceptional period increases the risk for orofacial clefts in offspring. *Paediatric and Perinatal Epidemiology*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30048566>

Crossan E and Duane B. Is there an association between maternal smoking and oral clefts? Evidence-based Dentistry, 2018; 19(1):24-5. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29568024>

Wehby GL, Uribe LM, Wilcox AJ, Christensen K, Romitti PA, et al. Interaction between smoking and body mass index and risk of oral clefts. Annals of Epidemiology, 2017; 27(2):103-7 e2. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28202134>

Junaid M, Narayanan MB, Jayanthi D, Kumar SG, and Selvamary AL. Association between maternal exposure to tobacco, presence of tgfa gene, and the occurrence of oral clefts. A case control study. Clinical Oral Investigations, 2017. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28303469>

Hanson HA, Mayer EN, Anderson RE, Aston KI, Carrell DT, et al. Risk of childhood mortality in family members of men with poor semen quality. Human Reproduction, 2017; 32(1):239-47. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27927843>

Carmichael SL, Ma C, and Shaw GM. Maternal smoking, alcohol, and caffeine exposures and risk of hypospadias. Birth Defects Res, 2017. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28635116>

Brignardello-Petersen R. Insufficient evidence suggesting an association between maternal tobacco exposure and cleft lip and palate. Journal of the American Dental Association, 2017; 148(8):e120. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28709577>

Al-Ani AH, Antoun JS, Thomson WM, Merriman TR, and Farella M. Maternal smoking during pregnancy is associated with offspring hypodontia. Journal of Dental Research, 2017; 22034517711156. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28535361>

Chemicals in cigarette smoke shown to damage foetal liver cells. Nursing Standard, 2017; 31(43):17. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28635455>

Xuan Z, Zhongpeng Y, Yanjun G, Jiaqi D, Yuchi Z, et al. Maternal active smoking and risk of oral clefts: A meta-analysis. Oral Surg Oral Med Oral Pathol Oral Radiol, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27727103>

Mossey PA, Little J, Steegers-Theunissen R, Molloy A, Peterlin B, et al. Genetic interactions in nonsyndromic orofacial clefts in europe-eurocran study. Cleft Palate-Craniofacial Journal, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27996298>

Forest S and Priest S. Intrauterine tobacco smoke exposure and congenital heart defects. Journal of Perinatal and Neonatal Nursing, 2016; 30(1):54-63. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26813392>

Ebadifar A, Hamed R, KhorramKhorshid HR, Kamali K, and Moghadam FA. Parental cigarette smoking, transforming growth factor-alpha gene variant and the risk of orofacial cleft in iranian infants. Iran J Basic Med Sci, 2016; 19(4):366-73. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27279979>

Intrauterine tobacco smoke exposure and congenital heart defects. Journal of Perinatal and Neonatal Nursing, 2016; 30(1):E2. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26813398>

Tang X, Hobbs CA, Cleves MA, Erickson SW, MacLeod SL, et al. Genetic variation affects congenital heart defect susceptibility in offspring exposed to maternal tobacco use. *Birth Defects Research. Part A, Clinical and Molecular Teratology*, 2015. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/26033827>

Pateva IB, Kerling EH, Reddy M, Chen D, Carlson SE, et al. Effect of maternal cigarette smoking on newborn iron stores. *Clin Res Trials*, 2015; 1(1):4-7. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/26090215>

Martelli DR, Coletta RD, Oliveira EA, Swerts MS, Rodrigues LA, et al. Association between maternal smoking, gender, and cleft lip and palate. *Braz J Otorhinolaryngol*, 2015. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/26277833>

Machado RA, Moreira HS, de Aquino SN, Martelli-Junior H, de Almeida Reis SR, et al. Interactions between rs1801321 and maternal cigarette smoking as risk factor for nonsyndromic cleft lip with or without cleft palate. *American Journal of Medical Genetics. Part A*, 2015. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/26507587>

de Vocht F, Simpkin AJ, Richmond RC, Relton C, and Tilling K. Assessment of offspring DNA methylation across the lifecourse associated with prenatal maternal smoking using bayesian mixture modelling. *International Journal of Environmental Research and Public Health*, 2015; 12(11):14461-76. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/26580635>

Nicoletti D, Appel LD, Siedersberger Neto P, Guimaraes GW, and Zhang L. Maternal smoking during pregnancy and birth defects in children: A systematic review with meta-analysis. *Cadernos de Saude Publica*, 2014; 30(12):2491-529. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/26247979>

Leite M, Albieri V, Kjaer SK, and Jensen A. Maternal smoking in pregnancy and risk for congenital malformations: Results of a danish register-based cohort study. *Acta Obstetrica et Gynecologica Scandinavica*, 2014; 93(8):825-34. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/24861914>

### *3.8.4 Colic*

Canivet CA, Ostergren PO, Jakobsson IL, Dejin-Karlsson E, and Hagander BM. Infantile colic, maternal smoking and infant feeding at 5 weeks of age. *Scandinavian Journal of Public Health*, 2008;

36(3):284-91. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/18519298>

Shenassa ED and Brown MJ. Maternal smoking and infantile gastrointestinal dysregulation: The case of colic. *Pediatrics*, 2004; 114(4):e497-505. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/15466076>

### *3.8.5 Respiratory health*

Wada, T, Adachi, Y, Murakami, S, Ito, Y, Itazawa, T, Tsuchida, A et al. (2024). Maternal exposure to smoking and wheezing phenotypes in children: a cohort study of the Japan Environment and Children's Study. *BMC Pediatr*, 24(1), 624. Retrieved from

<https://www.ncbi.nlm.nih.gov/pubmed/39354379>



- Nadif, R. (2024). Antenatal exposures to tobacco and biomass or fossil fuels and wheezing in early childhood in South Africa. *Thorax*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39134407>
- Braback, L, Dharmage, SC, Lodge, C, Meister, K, & Forsberg, B. (2024). Sex Disparities in Asthma Related to Parental and Grandmaternal Smoking Habits-A Population-Based Register Study. *Clin Exp Allergy* Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39034306>
- Wang, XJ, Huo, YX, Hu, WD, & Yue, C. (2024). The association of maternal smoking around birth with chronic respiratory diseases in adult offspring: A Mendelian randomization study. *Tob Induc Dis*, 22. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38938749>
- Xiao, Y, Han, J, Wang, Z, & Sun, L. (2024). Causal associations between maternal smoking during pregnancy and childhood asthma: A two-sample mendelian randomization analysis. *Asian J Surg*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38749840>
- Mendez-Reyes, HF, Franco-Olaya, M, Canon-Cubillos, O, Uribe-Lopez, JM, Delgado-Alvarez, MC, Velasquez-Portilla, M, & Olaya, CM. (2024). Morphological and clinical findings in placentas and newborns with a history of tobacco, alcohol, and other substance abuse during pregnancy. *J Neonatal Perinatal Med*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38640173>
- De Queiroz Andrade, E, Sena, C, de Gouveia Belinelo, P, Robinson, PD, Blaxland, A, Sly, PD et al. (2024). In utero smoking exposure induces changes to lung clearance index and modifies risk of wheeze in infants. *Pediatr Pulmonol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38501326>
- Rahaman, M, Roy, A, Latif, MA, Rana, MJ, Chouhan, P, & Das, KC. (2023). Re-examining the Nexus Between Maternal Smoking Behavior and Under-Five Children's ARI in India: A Comprehensive Study. *Environ Health Insights*, 17, 11786302231200997. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37766736>
- Onuzulu, CD, Lee, S, Basu, S, Comte, J, Hai, Y, Hizon, N et al. (2023). Early life exposure to cigarette smoke primes lung function and DNA methylation changes at Cyp1a1 upon exposure later in life. *Am J Physiol Lung Cell Mol Physiol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37642652>
- Kurihara, C, Kuniyoshi, KM, & Rehan, VK. (2023). Preterm Birth, Developmental Smoke/Nicotine Exposure, and Life-Long Pulmonary Sequelae. *Children (Basel)*, 10(4). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37189857>
- Rosenberg, L, Liu, C, Sharma, R, Wood, C, Vyhlidal, CA, Gaedigk, R et al. (2023). Intrauterine Smoke Exposure, microRNA Expression during Human Lung Development, and Childhood Asthma. *Int J Mol Sci*, 24(9). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37175432>
- Miyake, K, Kushima, M, Shinohara, R, Horiuchi, S, Otawa, S, Akiyama, Y et al. (2023). Maternal smoking status before and during pregnancy and bronchial asthma at 3 years of age: a prospective cohort study. *Sci Rep*, 13(1), 3234. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36828882>
- Ding, Z, Pang, L, Chai, H, Li, F, & Wu, M. (2022). The causal association between maternal smoking around birth on childhood asthma: A Mendelian randomization study. *Front Public Health*, 10, 1059195. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36408054>

Knihtila, HM, Huang, M, Prince, N, Stubbs, BJ, Carey, VJ, Laranjo, N et al. (2022). Maternal vitamin D status modifies the effects of early life tobacco exposure on child lung function. *J Allergy Clin Immunol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36400177>

McEvoy, CT, Shorey-Kendrick, L E, Milner, K, Harris, J, Vuylsteke, B, Cunningham, M et al. (2022). Effect of Vitamin C Supplementation for Pregnant Smokers on Offspring Airway Function and Wheeze at Age 5 Years: Follow-up of a Randomized Clinical Trial. *JAMA Pediatr*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36409489>

Janbazacyabar, H, van Bergenhenegouwen, J, Garssen, J, Leusink-Muis, T, van Ark, I, van Daal, MT et al.(2021). Prenatal and Postnatal Cigarette Smoke Exposure Is Associated With Increased Risk of Exacerbated Allergic Airway Immune Responses: A Preclinical Mouse Model. *Front Immunol*, 12, 797376. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35003121>

Janbazacyabar, H, van Daal, M, Leusink-Muis, T, van Ark, I, Garssen, J, Folkerts, G et al. (2021). The Effects of Maternal Smoking on Pregnancy and Offspring: Possible Role for EGF? *Front Cell Dev Biol*, 9, 680902. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34485278>

Rivas-Juesas, C, Monge, LF, Vicente, AD, Garcia, AL, Crespo, MG, & Sinisterra, AC. (2021). Maternal smoking during pregnancy and asthma during the first year of life: a comparative study between smokers and nonsmoker mothers. *Allergol Immunopathol (Madr)*, 49(5), 32-41. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34476920>

Shorey-Kendrick, LE, McEvoy, CT, O'Sullivan, SM, Milner, K, Vuylsteke, B, Tepper, RS et al. (2021). Impact of vitamin C supplementation on placental DNA methylation changes related to maternal smoking: association with gene expression and respiratory outcomes. *Clin Epigenetics*, 13(1), 177. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34538263>

Halenar, MJ, Sargent, JD, Edwards, KC, Woloshin, S, Schwartz, L, Emond, J et al. (2021). Validation of an Index for Functionally Important Respiratory Symptoms among Adults in the Nationally Representative Population Assessment of Tobacco and Health Study, 2014-2016. *Int J Environ Res Public Health*, 18(18). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34574610>

Collet, C, Fayon, M, Francis, F, Galode, F, Bui, S, & Debelleix, S. (2021). The First 1000 Days: Impact of Prenatal Tobacco Smoke Exposure on Hospitalization Due to Preschool Wheezing. *Healthcare (Basel)*, 9(8). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34442226>

Danal, PH, Nurhaeni, N, & Agustini, N. (2021). Perceptions of parents of under-5-year-old children with pneumonia on the effects of tobacco smoke: a phenomenology study in Manggarai, Eastern Indonesia. *J Public Health Res*, 10(s1). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34060748>

Bermudez Barrezueta, L, Minambres Rodriguez, M, Palomares Cardador, M, Torres Ballester, I, Lopez Casillas, P, Moreno Carrasco, J, & Pino Vazquez, A. (2021). Effect of prenatal and postnatal exposure to tobacco in the development of acute bronchiolitis in the first two years of life. *An Pediatr (Engl Ed)*, 94(6), 385-395. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34090635>

Ji, X, Yue, H, Li, G, & Sang, N. (2021). Maternal smoking-induced lung injuries in dams and offspring via inflammatory cytokines. *Environ Int*, 156, 106618. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33989842>

Accordini, S, Calciano, L, Johannessen, A, Benediktsdottir, B, Bertelsen, RJ, Braback, L et al (2021). Prenatal and prepubertal exposures to tobacco smoke in men may cause lower lung function in future offspring: a three-generation study using a causal modelling approach. *European Respiratory Journal*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33795316>

Wang, J, Lei, F, Fu, YT, & Zheng, Y. (2020). Effect of prenatal cigarette smoke exposure on sevoflurane-induced respiratory suppression in neonatal rats and the protective role of hydrogen sulfide. *Respir Physiol Neurobiol*, 284, 103582. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33197605>

Chen, X, Huang, L, Li, Q, Wu, M, Lin, L., Hong, M et al (2020). Exposure to environmental tobacco smoke during pregnancy and infancy increased the risk of upper respiratory tract infections in infants: a birth cohort study in Wuhan, China. *Indoor Air*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33090568>

De Queiroz Andrade, E., Da Silva Sena, C. R., Collison, A., Murphy, V. E., Gould, G. S., Bonevski, B., & Mattes, J. (2020). Association between active tobacco use during pregnancy and infant respiratory health: a systematic review and meta-analysis. *BMJ Open*, 10(9), e037819.. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32998922>

Bermudez Barrezueta, L, Minambres Rodriguez, M, Palomares Cardador, M, Torres Ballester, I, Lopez Casillas, P, Moreno Carrasco, J, & Pino Vazquez, A. (2020). [Effect of prenatal and postnatal exposure to tobacco in the development of acute bronchiolitis in the first two years of life]. *An Pediatr (Barc)*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32988767>

Gonzalez-Luis, GE, van Westering-Kroon, E, Villamor-Martinez, E, Huizing, MJ, Kilani, MA, Kramer, B W, & Villamor, E. (2020). Tobacco Smoking During Pregnancy Is Associated With Increased Risk of Moderate/Severe Bronchopulmonary Dysplasia: A Systematic Review and Meta-Analysis. *Frontiers in Pediatrics*, 8, 160. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32411634>

Tanaka, K, Arakawa, M, & Miyake, Y. (2020). Perinatal smoking exposure and risk of asthma in the first three years of life: A prospective prebirth cohort study. *Allergol Immunopathol (Madr)*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32439145>

Toppila-Salmi, S, Luukkainen, AT, Xu, B, Lampi, J, Auvinen, J, Dhaygude, K et al (2020). Maternal smoking during pregnancy affects adult onset of asthma in offspring: a follow up from birth to age 46 years. *Eur Respir J*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32341110>

Lundholm, C, Gunnerbeck, A, D'Onofrio, BM, Larsson, H, Pershagen, G, & Almqvist, C. (2020). Smoking and snuff use in pregnancy and the risk of asthma and wheeze in pre-schoolchildren-A population-based register study. *Clin Exp Allergy*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32149429>

Wang, B, Chen, H, Chan, YL, Wang, G, & Oliver, BG. (2020). Why Do Intrauterine Exposure to Air Pollution and Cigarette Smoke Increase the Risk of Asthma? *Front Cell Dev Biol*, 8, 38. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32117969>

Sturrock, S, Williams, E, Ambulkar, H, Dassios, T, & Greenough, A. (2020). Maternal smoking and cannabis use during pregnancy and infant outcomes. *Journal of Perinatal Medicine*, 48(2), 168-172. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31926099>

Ryan BM and Robles AI. Prenatal smoke exposure, DNA methylation and a link between drd1 and lung cancer. *International Journal of Epidemiology*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30879057>

Richmond RC, Suderman M, Langdon R, Relton CL, and Davey Smith G. Re: Prenatal smoke exposure, DNA methylation and a link between drd1 and lung cancer. *International Journal of Epidemiology*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30903164>

McAlees JW, Baker T, Kaur D, McKnight C, Lindsley A, et al. Age and early maternal smoking contribute to epithelial cell il-13 responsiveness in a pediatric asthma population. *Allergy*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31102477>

Subbarao P. Vitamin c for pregnant smokers to improve infant lung function: An orange a day keeps the respirologist away? *American Journal of Respiratory and Critical Care Medicine*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30522341>

Moradzadeh R, Mansournia MA, Baghfalaki T, Nadrian H, Gustafson P, et al. The impact of maternal smoking during pregnancy on childhood asthma: Adjusted for exposure misclassification; results from the national health and nutrition examination survey, 2011-2012. *Annals of Epidemiology*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30150159>

Dehmel S, Nathan P, Bartel S, El-Merhie N, Scherb H, et al. Intrauterine smoke exposure deregulates lung function, pulmonary transcriptomes, and in particular insulin-like growth factor (igf)-1 in a sex-specific manner. *Sci Rep*, 2018; 8(1):7547. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29765129>

Cheng H, Montgomery S, Treglown L, and Furnham A. Associations between childhood biomedical factors, maternal smoking, personality traits, body and mass index and the prevalence of asthma in adulthood. *Psychol Health*, 2018:1-14. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29737224>

Balmes JR. When the fetus is exposed to smoke, the developing lung is burned. *American Journal of Respiratory and Critical Care Medicine*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30272992>

Sukjamnong S, Chan YL, Zakarya R, Saad S, Sharma P, et al. The effect of long-term maternal smoking on the offspring's lung health. *American Journal of Physiology. Lung Cellular and Molecular Physiology*, 2017:ajplung 00134 2017. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28522560>

Zacharasiewicz A. Maternal smoking in pregnancy and its influence on childhood asthma. *ERJ Open Res*, 2016; 2(3). Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27730206>

Panaszek B, Pawlowicz R, Lindner K, Dobek R, Panaszek K, et al. Impact of birth weight and smoking on lung function in patients with asthma, copd, and healthy volunteers. *Adv Clin Exp Med*, 2016; 25(6):1207-13. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28028975>

Nowak-Gottl U, Limperger V, Kenet G, Degenhardt F, Arlt R, et al. Developmental hemostasis: A lifespan from neonates and pregnancy to the young and elderly adult in a european white population. *Blood Cells, Molecules, and Diseases*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28017497>

Krol M, Tupieka-Kolodziejska A, Tarchalska-Krynska B, Florek E, Wilczynski J, et al. Cytological evaluation of the nasal mucosa in neonates exposed to tobacco smoke during fetal life. *Neuro Endocrinol Lett*, 2016; 37(6):433-8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28315627>

Balte P, Karmaus W, Roberts G, Kurukulaaratchy R, Mitchell F, et al. Relationship between birth weight, maternal smoking during pregnancy and childhood and adolescent lung function: A path analysis. *Respiratory Medicine*, 2016; 121:13-20. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27888986>

Yang SI, Kim BJ, Lee SY, Kim HB, Lee CM, et al. Prenatal particulate matter/tobacco smoke increases infants' respiratory infections: Cocoa study. *Allergy Asthma Immunol Res*, 2015; 7(6):573-82. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26333704>

Duan C, Wang M, Ma X, Ding M, Yu H, et al. Association between maternal smoking during pregnancy and recurrent wheezing in infancy: Evidence from a meta-analysis. *International Journal of Clinical and Experimental Medicine*, 2015; 8(5):6755-61. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/26221213>

Johnson CC and Wegienka GR. Cigarette exposure in very early life leads to persistent respiratory effects. *American Journal of Respiratory and Critical Care Medicine*, 2014; 189(4):380-1. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24528312>

Brown S-AW, Liu B, and Taioli E. The relationship between tobacco smoke exposure and airflow obstruction in us children. *Chest*; 153(3):630-7. Available from: <http://dx.doi.org/10.1016/j.chest.2017.10.003>

### *3.8.6 Childhood allergies and skin disease*

**Diaz, MJ, Tran, JT, Forouzandeh, M, Grant-Kels, JM, Lipner, SR, & Montanez-Wiscovich, ME. (2024). Genetic association of maternal smoking around birth with psoriasis: A two-sample Mendelian randomization analysis. *J Eur Acad Dermatol Venereol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39569873>**

Vestergaard, C. (2024). The complex relationship between maternal smoking and atopic dermatitis in children. *J Eur Acad Dermatol Venereol*, 38(10), 1840-1841. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39319940>

Ruan, Q, Jiang, Y, & Shi, Y. (2024). Maternal smoking around birth and its influence on offspring allergic diseases: A mendelian randomization study. *World Allergy Organ J*, 17(2), 100875. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38351904>

Lau, HX, Lee, JW, Yap, QV, Chan, YH, Samuel, M, & Loo, EXL. (2023). Smoke exposure and childhood atopic eczema and food allergy: A systematic review and meta-analysis. *Pediatr Allergy Immunol*, 34(8), e14010. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37622263>

Zhou, Y, Chen, J, Dong, Y, Shen, J, Tian, M, Yang, Y et al. (2021). Maternal tobacco exposure during pregnancy and allergic rhinitis in offspring: A systematic review and meta-analysis. *Medicine (Baltimore)*, 100(34), e26986. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34449468>

Singh, SP, Devadoss, D, Manevski, M, Sheybani, A, Ivanciuc, T, Exil, V et al. (2020). Gestational Exposure to Cigarette Smoke Suppresses the Gasotransmitter H<sub>2</sub>S Biogenesis and the Effects Are Transmitted Transgenerationally. *Front Immunol*, 11, 1628. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32849552>

Groot, J, Nybo Andersen, AM, Blegvad, C, Pinot de Moira, A, & Skov, L. (2020). Prenatal, infantile, and childhood tobacco exposure and risk of pediatric psoriasis in the Danish National Birth Cohort offspring. *Journal of the American Academy of Dermatology*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31973955>

Groot J, Nybo Andersen AM, Blegvad C, Pinot de Moira A, and Skov L. Prenatal, infantile, and childhood tobacco exposure and risk of pediatric psoriasis in the danish national birth cohort offspring. *Journal of the American Academy of Dermatology*, 2020. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31973955>

Marild K, Tapia G, Midttun O, Ueland PM, Magnus MC, et al. Smoking in pregnancy, cord blood cotinine and risk of celiac disease diagnosis in offspring. *European Journal of Epidemiology*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31037572>

Gromadzinska J, Polanska K, Kozłowska L, Mikolajewska K, Stelmach I, et al. Vitamins a and e during pregnancy and allergy symptoms in an early childhood-lack of association with tobacco smoke exposure. *International Journal of Environmental Research and Public Health*, 2018; 15(6). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29895780>

Goudarzi H, Konno S, Kimura H, Araki A, Miyashita C, et al. Contrasting associations of maternal smoking and pre-pregnancy bmi with wheeze and eczema in children. *Science of the Total Environment*, 2018; 639:1601-9. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29929322>

Shinohara M and Matsumoto K. Fetal tobacco smoke exposure in the third trimester of pregnancy is associated with atopic eczema/dermatitis syndrome in infancy. *Pediatr Allergy Immunol Pulmonol*, 2017; 30(3):155-62. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29062585>

Potaczek DP, Harb H, Michel S, Alashkar Alhamwe. B, Renz H, et al. Epigenetics and allergy: From basic mechanisms to clinical applications. *Epigenomics*, 2017. Available from: <http://www.futuremedicine.com/doi/pdf/10.2217/epi-2016-0162>

Noakes PS, Hale J, Thomas R, Lane C, Devadason SG, et al. Maternal smoking is associated with impaired neonatal toll-like receptor (tlr) mediated immune responses. *European Respiratory Journal*, 2006; 28(4):721–9. Available from: <http://erj.ersjournals.com/cgi/content/abstract/28/4/721>

### 3.8.7 Neurodevelopment

Janson, K, Holz, NE, Kaiser, A, Aggensteiner, P, Baumeister, S, Brandeis, D et al. (2024). Long-term impact of maternal prenatal smoking on EEG brain activity and internalizing/externalizing problem symptoms in young adults. *Addict Behav*, 160, 108175. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39341184>

Marshall, AT, Adise, S, Kan, EC, & Sowell, ER. (2024). Longitudinal mapping of cortical change during early adolescence associated with prenatal tobacco and/or alcohol exposure in the Adolescent Brain Cognitive Development Study. *bioRxiv*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39257738>

Scholten, C, Ghasoub, M, Geeraert, B, Joshi, S, Wedderburn, CJ, Roos, A et al. (2024). Prenatal tobacco and alcohol exposure, white matter microstructure, and early language skills in toddlers from a South African birth cohort. *Front Integr Neurosci*, 18, 1438888. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39286039>

Elahi, Z, Hassanzadeh, F, & Satarzadeh, M. (2024). Maternal Smoking during Pregnancy and its effects on Neural Tube Defects. *Iran J Child Neurol*, 18(3), 103-115. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38988851>

Madley-Dowd, P, Thomas, R, Boyd, A, Zammit, S, Heron, J, & Rai, D. (2024). Maternal smoking during pregnancy and offspring risk of intellectual disability: a UK-based cohort study. *Front Psychiatry*, 15, 1352077. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38983370>

Chen, CP. (2024). Recurrent neural tube defect and craniorachischisis detected in the first trimester and associated with maternal smoking. *Taiwan J Obstet Gynecol*, 63(2), 260-262. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38485328>

Costa, AA, Almeida, MTC, Maia, FA, Rezende, LF, Saeger, VSA, Oliveira, SLN et al. (2024). Maternal and paternal licit and illicit drug use, smoking and drinking and autism spectrum disorder. *Cien Saude Colet*, 29(2), e01942023. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38324818>

Fotopoulos, NH, Chaumette, B, Devenyi, GA, Karama, S, Chakravarty, M, Labbe, A et al. (2024). Maternal smoking during pregnancy and cortical structure in children with attention-deficit/hyperactivity disorder. *Psychiatry Res*, 334, 115791. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38367455>

Puga, TB, Dai, HD, Wang, Y, & Theye, E. (2024). Maternal Tobacco Use During Pregnancy and Child Neurocognitive Development. *JAMA Netw Open*, 7(2), e2355952. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38349651>

Wells, AC, & Lotfipour, S. (2023). Prenatal nicotine exposure during pregnancy results in adverse neurodevelopmental alterations and neurobehavioral deficits. *Adv Drug Alcohol Res*, 3, 11628. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38389806>

Pini, N, Sania, A, Rao, S, Shuffrey, LC, Nugent, JD, Lucchini, M et al. (2024). In Utero Exposure to Alcohol and Tobacco and Electroencephalogram Power During Childhood. *JAMA Netw Open*, 7(1), e2350528. Retrieved from

Xie, T, & Mao, Y. (2024). The causal impact of maternal smoking around birth on offspring ADHD: A two-sample Mendelian randomization study. *J Affect Disord*, 351, 24-30. Retrieved from

Rodriguez Rivera, PJ, Liang, H, Isaiah, A, Cloak, CC, Menken, MS, Ryan, MC et al. (2023). Prenatal tobacco exposure on brain morphometry partially mediated poor cognitive performance in preadolescent children. *NeuroImmune Pharm Ther*, 2(4), 375-386. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38058999>

Nielsen, NM, Frisch, M, Gortz, S, Stenager, E, Skogstrand, K, Hougaard, DM et al. (2023). Smoking during pregnancy and risk of multiple sclerosis in offspring and mother: A Danish nationwide register-based cohort study. *Mult Scler*, 13524585231208310. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37981600>

Chaumette, B, Grizenko, N, Fageera, W, Fortier, ME, Ter-Stepanian, M, Labbe, A, & Joober, R. (2023). Correlation of the methylomic signature of smoking during pregnancy with clinical traits in ADHD. *J Psychiatry Neurosci*, 48(5), E390-E399. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37857414>

Xia, Y, Rebello, V, Bodison, SC, Jonker, D, Steigelmann, B, Donald, KA et al. (2023). Contextualizing the impact of prenatal alcohol and tobacco exposure on neurodevelopment in a South African birth cohort: an analysis from the socioecological perspective. *Front Integr Neurosci*, 17, 1104788. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37534335>

Deng, L, Wang, Q, & Lou, Y. (2023). Maternal nicotine intoxication before pregnancy induces depressive- and anxiety-like behaviors as well as cognitive deficits in male offspring and correlates with neurobiological changes. *Brain Behav*, e3052. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37161637>

Lackner, CL, Thompson, B, Santesso, D L, Wade, TJ, & Segalowitz, SJ. (2023). Perinatal nicotine exposure relates to stimulus-locked event-related potentials in early adolescence during an emotional go/no-go task. *Neurotoxicol Teratol*, 97, 107175. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37028464>

Chen, D, Niu, Q, Liu, S, Shao, W, Huang, Y, Xu, Y et al. (2023). The correlation between prenatal maternal active smoking and neurodevelopmental disorders in children: a systematic review and meta-analysis. *BMC Public Health*, 23(1), 611. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36997899>

Jansone, K, Eichler, A, Fasching, PA, Kornhuber, J, Kaiser, A, Millenet, S et al. (2023). Association of Maternal Smoking during Pregnancy with Neurophysiological and ADHD-Related Outcomes in



School-Aged Children. *Int J Environ Res Public Health*, 20(6). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36981624>

Gonzalez, MR, Uban, KA, Tapert, SF, & Sowell, ER. (2023). Prenatal tobacco exposure associations with physical health and neurodevelopment in the ABCD cohort. *Health Psychol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36716140>

Mahabee-Gittens, EM, Kline-Fath, BM, Harun, N, Folger, AT, He, L, & Parikh, NA. (2022). Prenatal tobacco smoke exposure and risk of brain abnormalities on magnetic resonance imaging at term in infants born very preterm. *Am J Obstet Gynecol MFM*, 5(3), 100856. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36592820>

Fuemmeler, BF, Glasgow, TE, Schechter, JC, Maguire, R, Sheng, Y, Bidopia, T et al. (2022). Prenatal and Childhood Smoke Exposure Associations with Cognition, Language, and ADHD. *J Pediatr*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36513211>

Lin, LZ, Ou, XX, Zhan, XL, Wang, X, Cai, L, Li, XH, . . . Dong, GH. (2022). Pre-conceptional and prenatal exposure to secondhand smoke and autism spectrum disorder: a national multi-center study in China. *World J Pediatr*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36355326>

Abrishamcar, S, Chen, J, Feil, D, Kilanowski, A, Koen, N, Vanker, A et al. (2022). DNA methylation as a potential mediator of the association between prenatal tobacco and alcohol exposure and child neurodevelopment in a South African birth cohort. *Transl Psychiatry*, 12(1), 418. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36180424>

Liu, D, Ren, Y, Wu, T, Shen, H, Yan, P, Meng, Y et al. (2022). Parental smoking exposure before and during pregnancy and offspring attention-deficit/hyperactivity disorder risk: A Chinese child and adolescent cohort study. *Front Public Health*, 10, 1017046. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36299741>

Saliyaj, A, & Zahaj, M. (2022). Long-term impact of tobacco exposure during pregnancy on children's psychomotor development. *Pediatr Int*, e15388. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36251534>

Marshall, AT, Bodison, SC, Uban, KA, Adise, S, Jonker, D, Charles, W et al. (2022). The impact of prenatal alcohol and/or tobacco exposure on brain structure in a large sample of children from a South African birth cohort. *Alcohol Clin Exp Res*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36117382>

Ekblad, MO. (2022). Association of Smoking During Pregnancy With Compromised Brain Development in Offspring. *JAMA Netw Open*, 5(8), e2224714. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35913745>

Knopik, VS, Micalizzi, L, Marceau, K, Loviska, AM, Yu, L, Bien, A et al. (2022). The roles of familial transmission and smoking during pregnancy on executive function skills: A sibling-comparison study. *Dev Psychopathol*, 1-13. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36039978>

Terplan, M. (2022). Prenatal Nicotine or Cannabis Exposure and Offspring Neurobehavioral Outcomes. *Obstet Gynecol*, 139(5), 939. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35576359>

Christensen, GM, Rowcliffe, C, Chen, J, Vanker, A, Koen, N, Jones, MJ et al (2022). In-utero exposure to indoor air pollution or tobacco smoke and cognitive development in a South African birth cohort study. *Sci Total Environ*, 155394. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35460774>

Howell, MP, Jones, CW, Herman, CA, Mayne, CV, Fernandez, C, Theall, KP et al. (2022). Impact of prenatal tobacco smoking on infant telomere length trajectory and ADHD symptoms at 18 months: a longitudinal cohort study. *BMC Med*, 20(1), 153. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35440768>

Sania, A, Myers, MM, Pini, N, Lucchini, M, Nugent, JD, Shuffrey, LC et al. (2022). Prenatal smoking and drinking are associated with altered newborn autonomic functions. *Pediatr Res*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35440768>

Wolfsberger, CH, Bruckner, M, Schwabegger, B, Mileder, LP, Pritisanac, E, Hoeller, N et al. (2021). Increased Risk for Cerebral Hypoxia During Immediate Neonatal Transition After Birth in Term Neonates Delivered by Caesarean Section With Prenatal Tobacco Exposure. *Front Pediatr*, 9, 747509. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34888265>

Chetty-Mhlanga, S, Viglietti, P, Roosli, M, & Dalvie, MA. (2021). Maternal drinking behaviour and co-exposure from smoking during and after pregnancy in relation to the neurocognitive function of school-children in the rural Western Cape. *Neurotoxicology*, 88, 36-43. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34718059>

Haan, E Sallis, HM, Zuccolo, L, Labrecque, J, Ystrom, E, Reichborn-Kjennerud, T et al. (2021). Prenatal smoking, alcohol and caffeine exposure and maternal reported ADHD symptoms in childhood: triangulation of evidence using negative control and polygenic risk score analyses. *Addiction*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34791750>

Buck, JM, Yu, L, Knopik, VS, & Stitzel, JA. (2021). DNA methylome perturbations: An epigenetic basis for the emergingly heritable neurodevelopmental abnormalities associated with maternal smoking and maternal nicotine exposure. *Biol Reprod*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34270696>

Berger, K, Pearl, M, Kharrazi, M, Li, Y, DeGuzman, J, She, J et al (2021). The association of in utero tobacco smoke exposure, quantified by serum cotinine, and Autism Spectrum Disorder. *Autism Res*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34165248>

Correa, ML, Soares, PSM, da Silva, BGC, Wehrmeister, F, Horta, BL, & Menezes, AMB. (2021). Maternal smoking during pregnancy and intelligence quotient in offspring: A systematic review and meta-analysis. *Neurotoxicology*, 85, 99-114. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34004235>

Madley-Dowd, P, Lundberg, M, Heron, J, Zammit, S, Ahlqvist, VH, Magnusson, C, & Rai, D. (2021). Maternal smoking and smokeless tobacco use during pregnancy and offspring development: sibling analysis in an intergenerational Swedish cohort. *Int J Epidemiol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33984117>

Lin, LZ, Xu, SL, Wu, QZ, Zhou, Y Ma, HM, Chen, DH et al (2021). Association of Prenatal, Early Postnatal, or Current Exposure to Secondhand Smoke With Attention-Deficit/Hyperactivity Disorder Symptoms in Children. *JAMA Netw Open*, 4(5), e2110931. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34014325>

Gibson, L, & Porter, M. (2021). Alcohol and Tobacco use While Breastfeeding and Risk of Autism Spectrum Disorder or Attention Deficit/Hyperactivity Disorder. *Journal of Autism and Developmental Disorders*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33893938>

Gibson, L, & Porter, M. (2021). Maternal drinking and smoking. Can it explain the exceptional academic performance of LBOTE children? A preliminary analysis. *BMC Research Notes*, 14(1), 141. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33863380>

Kim, B, Ha, M Kim, YS, Koh, YJ, Dong, S Kwon, HJ et al (2021). Prenatal exposure to paternal smoking and likelihood for autism spectrum disorder. *Autism*, 13623613211007319. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33878952>

Miyake, K, Miyashita, C, Ikeda-Araki, A, Miura, R, Itoh, S, Yamazaki, K et al (2021). DNA methylation of GFI1 as a mediator of the association between prenatal smoking exposure and ADHD symptoms at 6 years: the Hokkaido Study on Environment and Children's Health. *Clinical Epigenetics*, 13(1), 74. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33827680>

Venkatesh, KK, Leviton, A, Fichorova, RN, Joseph, RM, Douglass, LM, Frazier, JA et al (2021). Prenatal tobacco smoke exposure and neurological impairment at 10 years of age among children born extremely preterm: a prospective cohort. *BJOG*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33682301>

Duko, B, Pereira, G, Betts, K, Tait, RJ, Newnham, J, & Alati, R. (2021). Prenatal exposure to maternal, but not paternal, tobacco smoking is associated with smoking in adolescence. *Addict Behav*, 117, 106871. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33609811>

Micalizzi, L, Marceau, K, Evans, AS, Brick, LA, Palmer, RHC, Heath, AC, & Knopik, VS. (2021). A sibling-comparison study of smoking during pregnancy and risk for reading-related problems. *Neurotoxicol Teratol*, 84, 106961. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33577969>

Srivastava, P, & Trinh, TA. (2021). The effect of parental smoking on children's cognitive and non-cognitive skills. *Econ Hum Biol*, 41, 100978. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33610090>

Radhakrishnan, R, Brown, BP, Haas, DM, Zang, Y, Sparks, C, & Sadhasivam, S. (2021). Pilot study of fetal brain development and morphometry in prenatal opioid exposure and smoking on fetal MRI. *J Neuroradiol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33418054>

Ekblad, MO, Marceau, K, Rolan, E, Palmer, RHC, Todorov, A Heath, AC, & Knopik, VS. (2020). The Effect of Smoking during Pregnancy on Severity and Directionality of Externalizing and Internalizing Symptoms: A Genetically Informed Approach. *Int J Environ Res Public Health*, 17(21). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33126697>

Duko, B, Pereira, G, Betts, K, Tait, RJ, Newnham, J, & Alati, R. (2020). Prenatal alcohol and tobacco use and the risk of depression in offspring at age of 17 years: findings from the Raine Study. *J Affect Disord*, 279, 426-433. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33120243>

- Luo, L, Diao, J, Li, J, Li, Y, Wang, T, Chen, L et al (2020). Association of paternal smoking with the risk of neural tube defects in offspring: A systematic review and meta-analysis of observational studies. *Birth Defects Res*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33068074>
- Madley-Dowd, P, Kalkbrenner, AE, Heuvelman, H, Heron, J, Zammit, S, Rai, D, & Schendel, D. (2020). Maternal smoking during pregnancy and offspring intellectual disability: sibling analysis in an intergenerational Danish cohort. *Psychol Med*, 1-10. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33050963>
- Marcelle, ET Oliva, MT, & Hinshaw, SP. (2020). Gestational Smoking and Hypertension as Predictors of Working Memory Functioning in Childhood Attention-Deficit/Hyperactivity Disorder. *Front Psychol*, 11, 1950. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33041878>
- Duko, B, Ayano, G, Pereira, G, Betts, K, & Alati, R. (2020). Prenatal tobacco use and the risk of mood disorders in offspring: a systematic review and meta-analysis. *Social Psychiatry and Psychiatric Epidemiology*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32895729>
- Robbins, LS, Blanchard, CT, Sinkey, RG, Harris, SL, Tita, AT, & Harper, LM. (2020). Prenatal Tobacco Exposure and Childhood Neurodevelopment among Infants Born Prematurely. *Am J Perinatol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32862421>
- von Ehrenstein, OS, Cui, X, Yan, Q, Aralis, H, & Ritz, B. (2020). Maternal Prenatal Smoking and Autism Spectrum Disorder in Offspring: a California Statewide Cohort and Sibling Study. *Am J Epidemiol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32830844>
- Brannigan, R, Healy, C, Cannon, M, Leacy, FP, & Clarke, MC. (2020). Prenatal tobacco exposure and psychiatric outcomes in adolescence: is the effect mediated through birth weight? *Acta Psychiatr Scand*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32627173>
- Kim, CW, Lee, SM, Ko, EB, Go, RE, Jeung, EB, Kim, MS, & Choi, KC. (2020). Corrigendum to "Inhibitory effects of cigarette smoke extracts on neural differentiation of mouse embryonic stem cells" [Reprod. Toxicol. 95 (2020) 75-85]. *Reprod Toxicol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32713670>
- Massey, SH, Clark, CAC, Sun, MY, Burns, JL, Mroczek, DK, Espy, KA, & Wakschlag, LS. (2020). Dimension- and context-specific expression of preschoolers' disruptive behaviors associated with prenatal tobacco exposure. *Neurotoxicol Teratol*, 106915. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32693011>
- Molino, AR, Fidalgo, TM, Ribeiro, MV, Mariano, M, Martins, SS, Caetano, SC, & Surkan, PJ. (2020). Maternal cigarette use during pregnancy and school readiness: An analysis of preschool age children in Sao Paulo, Brazil. *Early Hum Dev*, 148, 105103. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32615518>
- Yong-Ping, L, Reichetzedder, C, Prehn, C, Yin, LH, Chu, C, Elitok, S et al. (2020). Impact of maternal smoking associated lyso-phosphatidylcholine 20:3 on offspring brain development. *Journal of Steroid Biochemistry and Molecular Biology*, 199, 105591. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31954177>

Shuffrey, LC, Myers, MM, Isler, JR, Lucchini, M, Sania, A, Pini, N et al (2020). Association Between Prenatal Exposure to Alcohol and Tobacco and Neonatal Brain Activity: Results From the Safe Passage Study. *JAMA Netw Open*, 3(5), e204714. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/32396193>

Quinn, PD, Meier, SM, & D'Onofrio, BM. (2020). Need to Account for Familial Confounding in Systematic Review and Meta-Analysis of Prenatal Tobacco Smoke Exposure and Schizophrenia. *Nicotine Tob Res*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32239148>

Eiden, RD, Shisler, S, Granger, DA, Schuetze, P, Colangelo, J, & Huestis, MA. (2020). Prenatal Tobacco and Cannabis Exposure: Associations with Cortisol Reactivity in Early School Age Children. *Int J Behav Med*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32291618>

Sowell, KD, Holt, RR, Uriu-Adams, JY, Chambers, CD, Coles, CD, Kable, JA et al (2020). Altered Maternal Plasma Fatty Acid Composition by Alcohol Consumption and Smoking during Pregnancy and Associations with Fetal Alcohol Spectrum Disorders. *J Am Coll Nutr*, 39(3), 249-260. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32240041>

Sellers, R, Warne, N, Rice, F, Langley, K, Maughan, B, Pickles, A et al. (2020). Using a cross-cohort comparison design to test the role of maternal smoking in pregnancy in child mental health and learning: evidence from two UK cohorts born four decades apart. *Int J Epidemiol*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32040173>

Wang Y, Hu D, Chen W, Xue H, and Du Y. Prenatal tobacco exposure modulated the association of genetic variants with diagnosed adhd and its symptom domain in children: A community based case-control study. *Sci Rep*, 2019; 9(1):4274. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/30862909>

Steeger CM, Bailey JA, Epstein M, and Hill KG. The link between parental smoking and youth externalizing behaviors: Effects of smoking, psychosocial factors, and family characteristics. *Psychology of Addictive Behaviors*, 2019. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/30667236>

Sourander A, Sucksdorff M, Chudal R, Surcel H-M, Hinkka-Yli-Salomäki S, et al. Prenatal cotinine levels and adhd among offspring. *Pediatrics*, 2019:e20183144. Available from:

<https://pediatrics.aappublications.org/content/pediatrics/early/2019/02/21/peds.2018-3144.full.pdf>

Salminen LE, Wilcox RR, Zhu AH, Riedel BC, Ching CRK, et al. Altered cortical brain structure and increased risk for disease seen decades after perinatal exposure to maternal smoking: A study of 9000 adults in the uk biobank. *Cerebral Cortex*, 2019. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/31271414>

Roige-Castellvi J, Murphy M, Hernandez-Martinez C, Sole-Navais P, Cavalle-Busquets P, et al. The effect of prenatal smoke exposure on child neuropsychological function: A prospective mother-child cohort study. *J Reprod Infant Psychol*, 2019:1-13. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/30777448>

Rios P, Bailey HD, Poulalhon C, Valteau-Couanet D, Schleiermacher G, et al. Parental smoking, maternal alcohol consumption during pregnancy and the risk of neuroblastoma in children. A pooled analysis of the escale and estelle french studies. *International Journal of Cancer*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30697705>

Moore BF, Shapiro AL, Wilkening G, Magzamen S, Starling AP, et al. Prenatal exposure to tobacco and offspring neurocognitive development in the healthy start study. *Journal of Pediatrics*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31759580>

Minatoya M, Araki A, Itoh S, Yamazaki K, Kobayashi S, et al. Prenatal tobacco exposure and adhd symptoms at pre-school age: The hokkaido study on environment and children's health. *Environ Health Prev Med*, 2019; 24(1):74. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31812162>

Kalkbrenner AE, Meier SM, Madley-Dowd P, Ladd-Acosta C, Fallin MD, et al. Familial confounding of the association between maternal smoking in pregnancy and autism spectrum disorder in offspring. *Autism Research*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31464107>

Froggatt S, Covey J, and Reissland N. Infant neurobehavioural consequences of prenatal cigarette exposure: A systematic review and meta-analysis. *Acta Paediatrica*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31821600>

Ekblad MO, Rolan E, Marceau K, Palmer R, Todorov A, et al. Disruptive behavior in siblings discordant for exposure to maternal smoking during pregnancy: A multi-rater approach. *Nicotine and Tobacco Research*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31734697>

Ediger K, Hasan SU, Synnes A, Shah J, Creighton D, et al. Maternal smoking and neurodevelopmental outcomes in infants <29 weeks gestation: A multicenter cohort study. *Journal of Perinatology*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30996278>

De Genna NM, Stroud LR, and Eiden RD. Co-use of tobacco and marijuana during pregnancy: Impact on nervous system development. *Neurotoxicology and Teratology*, 2019; 74:106807. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31054901>

Bjornholm L, Nikkinen J, Kiviniemi V, Niemela S, Drakesmith M, et al. Prenatal exposure to maternal cigarette smoking and structural properties of the human corpus callosum. *Neuroimage*, 2019:116477. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31874257>

Tzoumakis S, Carr VJ, Dean K, Laurens KR, Kariuki M, et al. Prenatal maternal smoking, maternal offending, and offspring behavioural and cognitive outcomes in early childhood. *Crim Behav Ment Health*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30256470>

Stroud LR, Papandonatos GD, McCallum M, Kehoe T, Salisbury AL, et al. Prenatal tobacco and marijuana co-use: Impact on newborn neurobehavior. *Neurotoxicology and Teratology*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30266574>

Stroud LR, McCallum M, and Salisbury AL. Impact of maternal prenatal smoking on fetal to infant neurobehavioral development. *Development and Psychopathology*, 2018; 30(3):1087-105. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30068428>

Semick SA, Collado-Torres L, Markunas CA, Shin JH, Deep-Soboslay A, et al. Developmental effects of maternal smoking during pregnancy on the human frontal cortex transcriptome. *Molecular Psychiatry*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30131587>

Rice F, Langley K, Woodford C, Davey Smith G, and Thapar A. Identifying the contribution of prenatal risk factors to offspring development and psychopathology: What designs to use and a critique of literature on maternal smoking and stress in pregnancy. *Development and Psychopathology*, 2018; 30(3):1107-28. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30068414>

Mashhoon Y, Betts J, Farmer SL, and Lukas SE. Early onset tobacco cigarette smokers exhibit deficits in response inhibition and sustained attention. *Drug and Alcohol Dependence*, 2018; 184:48-56. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29402679>

Malanchini M, Smith-Woolley E, Ayorech Z, Rimfeld K, Krapohl E, et al. Aggressive behaviour in childhood and adolescence: The role of smoking during pregnancy, evidence from four twin cohorts in the eu-action consortium. *Psychological Medicine*, 2018:1-9. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29886849>

Kristjansson AL, Thomas S, Lilly CL, Thorisdottir IE, Allegrante JP, et al. Maternal smoking during pregnancy and academic achievement of offspring over time: A registry data-based cohort study. *Preventive Medicine*, 2018; 113:74-9. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29758305>

Hartman JD and Craig BM. Examining the association between maternal smoking during pregnancy and child behavior problems using quality-adjusted life years. *Maternal and Child Health Journal*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29995297>

Gutvirtz G, Wainstock T, Landau D, and Sheiner E. Maternal smoking during pregnancy and long-term neurological morbidity of the offspring. *Addictive Behaviors*, 2018; 88:86-91. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30172166>

Godleski SA, Shisler S, Eiden RD, and Huestis MA. Co-use of tobacco and marijuana during pregnancy: Pathways to externalizing behavior problems in early childhood. *Neurotoxicology and Teratology*, 2018; 69:39-48. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30081085>

Escher J. Bugs in the program: Can pregnancy drugs and smoking disturb molecular reprogramming of the fetal germline, increasing heritable risk for autism and neurodevelopmental disorders? *Environ Epigenet*, 2018; 4(2):dvy001. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29732167>

Eiden RD, Zhao J, Casey M, Shisler S, Schuetze P, et al. Pre- and postnatal tobacco and cannabis exposure and child behavior problems: Bidirectional associations, joint effects, and sex differences. *Drug and Alcohol Dependence*, 2018; 185:82-92. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29428324>

Eiden RD, Schuetze P, Shisler S, and Huestis MA. Prenatal exposure to tobacco and cannabis: Effects on autonomic and emotion regulation. *Neurotoxicology and Teratology*, 2018; 68:47-56. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29727701>

Dong T, Hu W, Zhou X, Lin H, Lan L, et al. Prenatal exposure to maternal smoking during pregnancy and attention-deficit/hyperactivity disorder in offspring: A meta-analysis. *Reproductive Toxicology*, 2018; 76:63-70. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29294364>

Cho YJ, Choi R, Park S, and Kwon JW. Parental smoking and depression, and attention-deficit hyperactivity disorder in children and adolescents: Korean national health and nutrition examination survey 2005-2014. *Asia Pac Psychiatry*, 2018; 10(3):e12327. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30088339>

Cauley M, Hall BJ, Abreu-Villaca Y, Junaid S, White H, et al. Critical developmental periods for effects of low-level tobacco smoke exposure on behavioral performance. *Neurotoxicology*, 2018; 68:81-7. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30036564>

Caramaschi D, Taylor AE, Richmond RC, Havdahl KA, Golding J, et al. Maternal smoking during pregnancy and autism: Using causal inference methods in a birth cohort study. *Transl Psychiatry*, 2018; 8(1):262. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30498225>

Bhat SK, Beilin LJ, Robinson M, Burrows S, and Mori TA. Maternal smoking and low family income during pregnancy as predictors of the relationship between depression and adiposity in young adults. *J Dev Orig Health Dis*, 2018:1-9. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30111386>

Zugno AI, Oliveira MB, Mastella GA, Heylmann AS, Canever L, et al. Increased risk of developing schizophrenia in animals exposed to cigarette smoke during the gestational period. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 2017; 75:199-206. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28229913>

Taylor AE, Carslake D, de Mola CL, Rydell M, Nilsen TIL, et al. Maternal smoking in pregnancy and offspring depression: A cross cohort and negative control study. *Sci Rep*, 2017; 7(1):12579. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28974730>

Talati A, Wickramaratne PJ, Wesselhoeft R, and Weissman MM. Prenatal tobacco exposure, birthweight, and offspring psychopathology. *Psychiatry Research*, 2017; 252:346-52. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28327448>

Sutin AR, Flynn HA, and Terracciano A. Maternal cigarette smoking during pregnancy and the trajectory of externalizing and internalizing symptoms across childhood: Similarities and differences across parent, teacher, and self reports. *Journal of Psychiatric Research*, 2017; 91:145-8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28359941>

Schechter JC and Kollins SH. Prenatal smoke exposure and adhd: Advancing the field. *Pediatrics*, 2017; 139(2). Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28138004>

Rose-Jacobs R, Richardson MA, Buchanan-Howland K, Chen CA, Cabral H, et al. Intrauterine exposure to tobacco and executive functioning in high school. *Drug and Alcohol Dependence*, 2017; 176:169-75. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28544995>



Quinn PD, Rickert ME, Weibull CE, Johansson ALV, Lichtenstein P, et al. Association between maternal smoking during pregnancy and severe mental illness in offspring. *JAMA Psychiatry*, 2017; 74(6):589-96. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28467540>

Paradis AD, Shenassa ED, Papandonatos GD, Rogers ML, and Buka SL. Maternal smoking during pregnancy and offspring antisocial behaviour: Findings from a longitudinal investigation of discordant siblings. *Journal of Epidemiology and Community Health*, 2017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28696927>

Osland S, Hirsch L, and Pringsheim T. Smoking, alcohol and drug use in youth and adults with attention-deficit hyperactivity disorder. *BJPsych Open*, 2017; 3(3):141-6. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28546869>

Niemela S, Sourander A, Surcel HM, Hinkka-Yli-Salomaki S, McKeague IW, et al. Data selection importance in the study of the association between maternal smoking during pregnancy and schizophrenia: Response to meier et al. *American Journal of Psychiatry*, 2017; 174(2):188. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28142274>

Morley BJ and Felix RA. A time to listen: Perinatal smoking affects the development of temporal sound processing. *Journal of Physiology*, 2017. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28240351>

Micalizzi L, Marceau K, Brick LA, Palmer RH, Todorov AA, et al. Inhibitory control in siblings discordant for exposure to maternal smoking during pregnancy. *Developmental Psychology*, 2017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29058937>

Meier SM, Mors O, and Parner E. Familial confounding of the association between maternal smoking during pregnancy and schizophrenia. *American Journal of Psychiatry*, 2017; 174(2):187. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28142267>

Kristjansson AL, Thorisdottir IE, Steingrimsdottir T, Allegrante JP, Lilly CL, et al. Maternal smoking during pregnancy and scholastic achievement in childhood: Evidence from the lifecourse cohort study. *European Journal of Public Health*, 2017; 27(5):850-5. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28957474>

Jung Y, Lee AM, McKee SA, and Picciotto MR. Maternal smoking and autism spectrum disorder: Meta-analysis with population smoking metrics as moderators. *Sci Rep*, 2017; 7(1):4315. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28659613>

He Y, Chen J, Zhu LH, Hua LL, and Ke FF. Maternal smoking during pregnancy and adhd: Results from a systematic review and meta-analysis of prospective cohort studies. *Journal of Attention Disorders*, 2017;1087054717696766. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29039728>

Gustavson K, Ystrom E, Stoltenberg C, Susser E, Suren P, et al. Smoking in pregnancy and child adhd. *Pediatrics*, 2017; 139(2). Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28138005>

Ekblad M, Lehtonen L, Korkeila J, and Gissler M. Maternal smoking during pregnancy and the risk of psychiatric morbidity in singleton sibling pairs. *Nicotine and Tobacco Research*, 2017; 19(5):597-604. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28403473>

Chatterton Z, Hartley BJ, Seok MH, Mendeleev N, Chen S, et al. In utero exposure to maternal smoking is associated with DNA methylation alterations and reduced neuronal content in the developing fetal brain. *Epigenetics and Chromatin*, 2017; 10:4. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/28149327>

Chan YL, Saad S, Machaalani R, Oliver BG, Vissel B, et al. Maternal cigarette smoke exposure worsens neurological outcomes in adolescent offspring with hypoxic-ischemic injury. *Frontiers in Molecular Neuroscience*, 2017; 10:306. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29018327>

Chan Y, Saad S, Machaalani R, Oliver B, Vissel B, et al. Maternal cigarette smoke exposure worsens neurological outcomes in adolescent offspring with hypoxic-ischemic injury. *Frontiers in Molecular Neuroscience*, 2017; 10:306. Available from:

[https://www.researchgate.net/publication/320034624\\_Maternal\\_Cigarette\\_Smoke\\_Exposure\\_Worsens\\_Neurological\\_Outcomes\\_in\\_Adolescent\\_Offspring\\_with\\_Hypoxic-Ischemic\\_Injury?ev=publicSearchHeader& sg=wqljAYS4\\_C8QaCxPjzC\\_Eb\\_TSc71Fs6a2nCiyby3\\_uSG\\_QP9xHRIAd2CxNTpn37eVc097h31xrRj5wo](https://www.researchgate.net/publication/320034624_Maternal_Cigarette_Smoke_Exposure_Worsens_Neurological_Outcomes_in_Adolescent_Offspring_with_Hypoxic-Ischemic_Injury?ev=publicSearchHeader& sg=wqljAYS4_C8QaCxPjzC_Eb_TSc71Fs6a2nCiyby3_uSG_QP9xHRIAd2CxNTpn37eVc097h31xrRj5wo)

<http://www.ncbi.nlm.nih.gov/pubmed/29018327>

Ashina H, Li XQ, Olsen EM, Skovgaard AM, Larsen M, et al. Association of maternal smoking during pregnancy and birth weight with retinal nerve fiber layer thickness in children aged 11 or 12 years: The copenhagen child cohort 2000 eye study. *JAMA Ophthalmol*, 2017; 135(4):331-7. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/28253396>

Tekin M, Yildirim S, Aylanc H, Kaymaz N, Battal F, et al. Does intrauterine tobacco exposure increase the pain perception of newborns? *J Pain Res*, 2016; 9:319-23. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/27330324>

Talati A, Odgerel Z, Wickramaratne PJ, and Weissman MM. Brain derived neurotrophic factor moderates associations between maternal smoking during pregnancy and offspring behavioral disorders. *Psychiatry Research*, 2016; 245:387-91. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/27611068>

Stroud LR, Papandonatos GD, Salisbury AL, Phipps MG, Huestis MA, et al. Epigenetic regulation of placental nr3c1: Mechanism underlying prenatal programming of infant neurobehavior by maternal smoking? *Child Development*, 2016; 87(1):49-60. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/26822442>

Salatino-Oliveira A, Murray J, Kieling C, Genro JP, Polanczyk G, et al. Comt and prenatal maternal smoking in associations with conduct problems and crime: The pelotas 1993 birth cohort study. *Sci Rep*, 2016; 6:29900. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27426045>

Ramsay H, Barnett JH, Murray GK, Maki P, Hurtig T, et al. Smoking in pregnancy, adolescent mental health and cognitive performance in young adult offspring: Results from a matched sample within a finnish cohort. *BMC Psychiatry*, 2016; 16(1):430. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/27908296>

Palmer RH, Bidwell LC, Heath AC, Brick LA, Madden PA, et al. Effects of maternal smoking during pregnancy on offspring externalizing problems: Contextual effects in a sample of female twins. *Behavior Genetics*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26826031>

Mackay DF, Anderson JJ, Pell JP, Zammit S, and Smith DJ. Exposure to tobacco smoke in utero or during early childhood and risk of hypomania: Prospective birth cohort study. *European Psychiatry*, 2016; 39:33-9. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27810616>

Maatta AJ, Paananen M, Marttila R, Auvinen J, Miettunen J, et al. Maternal smoking during pregnancy is associated with offspring's musculoskeletal pain in adolescence: Structural equation modeling. *Nicotine and Tobacco Research*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28003513>

Knopik VS, Marceau K, Bidwell LC, Palmer RH, Smith TF, et al. Smoking during pregnancy and adhd risk: A genetically informed, multiple-rater approach. *American Journal of Medical Genetics. Part B, Neuropsychiatric Genetics*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26799787>

Joelsson P, Chudal R, Talati A, Suominen A, Brown AS, et al. Prenatal smoking exposure and neuropsychiatric comorbidity of adhd: A finnish nationwide population-based cohort study. *BMC Psychiatry*, 2016; 16:306. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27581195>

Hohmann S, Zohsel K, Buchmann AF, Blomeyer D, Holz N, et al. Interacting effect of maoa genotype and maternal prenatal smoking on aggressive behavior in young adulthood. *J Neural Transm (Vienna)*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27300740>

Godleski SA, Eiden RD, Schuetze P, Colder C, and Huestis M. Tobacco exposure and maternal psychopathology: Impact on toddler problem behavior. *Neurotoxicology and Teratology*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27498223>

Gard AM, Owens EB, and Hinshaw SP. Prenatal smoke exposure predicts hyperactive/impulsive but not inattentive adhd symptoms in adolescent and young adult girls. *Infant Child Dev*, 2016; 25(4):339-51. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27516728>

Wiebe SA, Clark CA, De Jong DM, Chevalier N, Espy KA, et al. Prenatal tobacco exposure and self-regulation in early childhood: Implications for developmental psychopathology. *Development and Psychopathology*, 2015; 27(2):397-409. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25997761>

Tettamanti G, Ljung R, Mathiesen T, Schwartzbaum J, and Feychting M. Maternal smoking during pregnancy and the risk of childhood brain tumors: Results from a swedish cohort study. *Cancer Epidemiology*, 2015; 40:67-72. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26680602>

Tang S, Wang Y, Gong X, and Wang G. A meta-analysis of maternal smoking during pregnancy and autism spectrum disorder risk in offspring. *International Journal of Environmental Research and Public Health*, 2015; 12(9):10418-31. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26343689>

Schwarze CE, Hellhammer DH, Frieling H, Mobascher A, and Lieb K. Altered DNA methylation status (bdnf gene exon iv) associated with prenatal maternal cigarette smoking in borderline patients and

healthy controls. *Psychoneuroendocrinology*, 2015; 61:29. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/26383354>

Polanska K, Jurewicz J, and Hanke W. Smoking and alcohol drinking during pregnancy as the risk factors for poor child neurodevelopment - a review of epidemiological studies. *International Journal of Occupational Medicine and Environmental Health*, 2015; 28(3):419-43. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/26190723>

Melchior M, Hersi R, van der Waerden J, Larroque B, Saurel-Cubizolles MJ, et al. Maternal tobacco smoking in pregnancy and children's socio-emotional development at age 5: The eden mother-child birth cohort study. *European Psychiatry*, 2015. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/25843027>

Leivonen S, Chudal R, Joelsson P, Ekblad M, Suominen A, et al. Prenatal maternal smoking and tourette syndrome: A nationwide register study. *Child Psychiatry and Human Development*, 2015. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/25796373>

Evlampidou I, Bagkeris M, Vardavas C, Koutra K, Patelarou E, et al. Prenatal second-hand smoke exposure measured with urine cotinine may reduce gross motor development at 18 months of age. *Journal of Pediatrics*, 2015. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/25863662>

Estabrook R, Massey SH, Clark CA, Burns JL, Mustanski BS, et al. Separating family-level and direct exposure effects of smoking during pregnancy on offspring externalizing symptoms: Bridging the behavior genetic and behavior teratologic divide. *Behavior Genetics*, 2015. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/26581695>

El Marroun H, Tiemeier H, Franken IH, Jaddoe VW, van der Lugt A, et al. Prenatal cannabis and tobacco exposure in relation to brain morphology: A prospective neuroimaging study in young children. *Biological Psychiatry*, 2015. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/26422004>

Durr DW, Hoyer BB, Christensen LH, Pedersen HS, Zinchuk A, et al. Tobacco smoking during pregnancy and risk of adverse behaviour in offspring: A follow-up study. *Reproductive Toxicology*, 2015; 58:65-72. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/26327280>

Dolan CV, Geels L, Vink JM, van Beijsterveldt CE, Neale MC, et al. Testing causal effects of maternal smoking during pregnancy on offspring's externalizing and internalizing behavior. *Behavior Genetics*, 2015. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/26324285>

Clark CA, Espy KA, and Wakschlag L. Developmental pathways from prenatal tobacco and stress exposure to behavioral disinhibition. *Neurotoxicology and Teratology*, 2015; 53:64-74. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/26628107>

Bernardini F, Wan CR, Crisafio A, Massey SH, and Compton MT. Prenatal exposure to maternal smoking and symptom severity among offspring with first-episode nonaffective psychosis. *Schizophrenia Research*, 2015. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/25754270>

Zhu JL, Olsen J, Liew Z, Li J, Niclasen J, et al. Parental smoking during pregnancy and adhd in children: The danish national birth cohort. *Pediatrics*, 2014; 134(2):e382-8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25049343>

Yochum C, Doherty-Lyon S, Hoffman C, Hossain MM, Zelikoff JT, et al. Prenatal cigarette smoke exposure causes hyperactivity and aggressive behavior: Role of altered catecholamines and bdnf. *Experimental Neurology*, 2014; 254:145-52. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24486851>

Wiebe SA, Fang H, Johnson C, James KE, and Espy KA. Determining the impact of prenatal tobacco exposure on self-regulation at 6 months. *Developmental Psychology*, 2014; 50(6):1746-56. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24512173>

Stroud LR, Papandonatos GD, Rodriguez D, McCallum M, Salisbury AL, et al. Maternal smoking during pregnancy and infant stress response: Test of a prenatal programming hypothesis. *Psychoneuroendocrinology*, 2014; 48:29-40. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24999830>

Sengupta SM, Fortier ME, Thakur GA, Bhat V, Grizenko N, et al. Parental psychopathology in families of children with attention-deficit/hyperactivity disorder and exposed to maternal smoking during pregnancy. *Journal of Child Psychology and Psychiatry and Allied Disciplines*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24961295>

Kong G. Commentary on lotfipour et al. (2014): Taking a balanced view on prenatal smoking on adolescent health outcomes. *Addiction*, 2014; 109(10):1730-1. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25163713>

Talati A, Bao Y, Kaufman J, Shen L, Schaefer CA, et al. Maternal smoking during pregnancy and bipolar disorder in offspring. *American Journal of Psychiatry*, 2013; 170(10):1178-85. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24084820>

Menezes AM, Murray J, Laszlo M, Wehrmeister FC, Hallal PC, et al. Happiness and depression in adolescence after maternal smoking during pregnancy: Birth cohort study. *PLoS ONE*, 2013; 8(11):e80370. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24265817>

Maj M. The association between maternal smoking during pregnancy and bipolar disorder in the offspring: Alternative interpretations. *American Journal of Psychiatry*, 2013; 170(10):1090-2. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24084811>

Knopik VS. Maternal smoking during pregnancy and child outcomes: Real or spurious effect? *Dev Neuropsychol*, 2009; 34(1):1-36. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/19142764>

Knopik VS. Maternal smoking during pregnancy and child outcomes: Real or spurious effect? *Developmental Neuropsychology*, 2009; 34(1):1-36. Available from: <https://doi.org/10.1080/87565640802564366>

### *3.8.8 Cardiovascular disease risk*

- Wang, H, Ruan, YP, Ma, S, Wang, YQ, Wan, XY, He, YH et al. (2023). Interaction between ozone and paternal smoking on fetal congenital heart defects among pregnant women at high risk: a multicenter maternal-fetal medicine study. *World J Pediatr*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37665504>
- Hartel, TC, Oelofse, A, & De Smidt, JJA. (2023). Vascular Effects, Potential Pathways and Mediators of Fetal Exposure to Alcohol and Cigarette Smoking during Pregnancy: A Narrative Review. *Int J Environ Res Public Health*, 20(14). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37510630>
- Mourino, N, Varela-Lema, L, Ahluwalia, JS, Rey-Brandariz, J, Candal-Pedreira, C, Ruano-Ravina, A (2023). Maternal smoking in pregnancy and blood pressure during childhood and adolescence: a meta-analysis. *Eur J Pediatr*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36823476>
- Parada-Ricart, E, Luque, V, Zaragoza, M, Ferre, N, Closa-Monasterolo, R, Koletzko, B et al. (2022). Effect of maternal smoking during pregnancy on child blood pressure in a European cohort. *Sci Rep*, 12(1), 17308. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36243884>
- Sokou, R, Konstantinidi, A, Tsante, KA, Tsantes, AG, Parastatidou, S, Ioakeimidis, G et al. (2022). The impact of maternal smoking during pregnancy on hemostatic profile of neonates using thromboelastometry (ROTEM). A pilot observational study. *Placenta*, 129, 23-29. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36193606>
- Wang, T, Chen, L, Ni, B, Sheng, X, Huang, P, Zhang, S, & Qin, J. (2022). Maternal pre-pregnancy/early-pregnancy smoking and risk of congenital heart diseases in offspring: A prospective cohort study in Central China. *J Glob Health*, 12, 11009. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35916623>
- Wei, Y, Andersson, T, Edstorp, J, Lofvenborg, JE, Talback, M, Feychting, M, & Carlsson, S. (2022). Maternal smoking during pregnancy and type 1 diabetes in the offspring: a nationwide register-based study with family-based designs. *BMC Med*, 20(1), 240. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35953788>
- Monasso, GS, Felix, JF., Gaillard,., & Jaddoe, VWV. (2022). Fetal and childhood exposure to parental tobacco smoking and arterial health at age 10 years. *Am J Hypertens*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35882377>
- Laigaard, PP, Wibaek, R, Vaag, AA, Hansen, MH, Munch, IC, Olsen, EM et al. (2022). Smoking in pregnancy is associated with increased adiposity and retinal arteriolar wall-to-lumen ratio in adolescence: The Copenhagen Child Cohort Study 2000. *Microvasc Res*, 142, 104364. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35346719>
- Cajachagua-Torres, KN, El Marroun, H, Reiss, IKM, Santos, S, & Jaddoe, VWV. (2021). Foetal tobacco and cannabis exposure, body fat and cardio-metabolic health in childhood. *Pediatr Obes*, e12863. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34674394>
- Diao, J, Zhao, L, Luo, L, Li, J, Li, Y, Zhang, S et al. (2021). Associations and interaction effects of maternal smoking and genetic polymorphisms of cytochrome P450 genes with risk of congenital

heart disease in offspring: A case-control study. *Medicine (Baltimore)*, 100(23), e26268. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34115022>

Song, Q, Sun, D, Zhou, T, Li, X, Ma, H, Liang, Z et al. (2021). Perinatal exposure to maternal smoking and adulthood smoking behaviors in predicting cardiovascular diseases: A prospective cohort study. *Atherosclerosis*, 328, 52-59. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34091070>

Taylor, K, Elhakeem, A, Thorbjornsrud Nader, JL, Yang, TC, Isaevska, E, Richiardi, L et al (2021). Effect of Maternal Prepregnancy/Early-Pregnancy Body Mass Index and Pregnancy Smoking and Alcohol on Congenital Heart Diseases: A Parental Negative Control Study. *J Am Heart Assoc*, 10(11), e020051. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34039012>

Zahoran, S, Szanto, PR, Bodi, N, Bagyanszki, M, Maleth, J, Hegyi, P et al (2021). Sustained Maternal Smoking Triggers Endothelial-Mediated Oxidative Stress in the Umbilical Cord Vessels, Resulting in Vascular Dysfunction. *Antioxidants (Basel)*, 10(4). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33918732>

Jonsson, LH, Larsen, M, Olsen, EM, Skovgaard, AM, & Munch, IC. (2021). Incidence of cilioretinal arteries in 11- to 12-year-old children and association with maternal smoking during pregnancy: the Copenhagen Child Cohort 2000 Eye Study. *Acta Ophthalmol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33576174>

Taylor, K, Elhakeem, A, Nader, JLT, Yang, T, Isaevska, E, Richiardi, L et al (2020). The effect of maternal pre-/early-pregnancy BMI and pregnancy smoking and alcohol on congenital heart diseases: a parental negative control study. *medRxiv*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33173887>

Halasz, G, & Piepoli, MF. (2020). Editor's Presentation: 'Smoking habit and congenital heart defects in offspring'. *Eur J Prev Cardiol*, 27(12), 1235-1237. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32726572>

Ozcelik, HS, Arslan, D, Deniz, CD, Gunenc, O, Vatansev, H, & Uysal, C. (2020). Evaluation of Plasma Asymmetric Dimethylarginine Levels and Abdominal Aortic Intima-Media Thickness in Infants of Smoker Mothers. *Am J Perinatol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32683669>

Balogh, G, Chakraborty, P, Dugmonits, KN, Peter, M, Vegh, AG, Vigh, L, & Hermes, E. (2020). Sustained maternal smoking-associated changes in the physico-chemical properties of fetal RBC membranes might serve as early markers for vascular comorbidities. *Biochim Biophys Acta Mol Cell Biol Lipids*, 1865(4), 158615. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31926297>

Ho, H, Guo, H, Means, S, Tang, J, & Hunter, P. (2020). Maternal Smoking Induced Cardiovascular Risks in Fetuses: How Can in silico Models Help? *Front Bioeng Biotechnol*, 8, 97. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32140462>

Rauschert S, Melton PE, Burdge G, Craig JM, Godfrey KM, et al. Maternal smoking during pregnancy induces persistent epigenetic changes into adolescence, independent of postnatal smoke exposure and is associated with cardiometabolic risk. *Front Genet*, 2019; 10:770. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31616461>

McEvoy CT, Marozkina N, Gaston B, and Spindel ER. In utero smoke and gene interactions: Long term consequences on respiratory health. *American Journal of Respiratory and Critical Care Medicine*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30811946>

Kataria Y, Gaewsky L, and Ellervik C. Prenatal smoking exposure and cardio-metabolic risk factors in adulthood: A general population study and a meta-analysis. *International Journal of Obesity*, 2019; 43(4):763-73. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30232417>

Hengstler K, van 't Sant P, and Jira PE. Carboxyhemoglobin in umbilical cord blood and maternal smoking. *Journal of Perinatal Medicine*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31421045>

Dugmonits KN, Chakraborty P, Hollandi R, Zahoran S, Pankotai-Bodo G, et al. Maternal smoking highly affects the function, membrane integrity, and rheological properties in fetal red blood cells. *Oxidative Medicine and Cellular Longevity*, 2019; 2019:1509798. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31871538>

Stevens DR, Malek AM, Laggis C, and Hunt KJ. In utero exposure to tobacco smoke, subsequent cardiometabolic risks, and metabolic syndrome among u.S. Adolescents. *Annals of Epidemiology*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30017226>

Richmond RC, Suderman M, Langdon R, Relton CL, and Davey Smith G. DNA methylation as a marker for prenatal smoke exposure in adults. *International Journal of Epidemiology*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29860346>

Pini N, Lucchini M, Fifer WP, Myers MM, and Signorini MG. Influence of prenatal alcohol and smoke exposure on neonatal vagal tone in response to head-up tilt. *Conference Proceedings, Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, 2018; 2018:5874-7. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30441672>

Parmar P, Lowry E, Cugliari G, Suderman M, Wilson R, et al. Association of maternal prenatal smoking gfi1-locus and cardio-metabolic phenotypes in 18,212 adults. *EBioMedicine*, 2018. Available from: [https://www.ebiomedicine.com/article/S2352-3964\(18\)30487-0/pdf](https://www.ebiomedicine.com/article/S2352-3964(18)30487-0/pdf)

Moore BF, Starling AP, Magzamen S, Harrod CS, Allshouse WB, et al. Fetal exposure to maternal active and secondhand smoking with offspring early-life growth in the healthy start study. *International Journal of Obesity*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30341407>

<https://www.nature.com/articles/s41366-018-0238-3>

Leybovitz-Haleluya N, Wainstock T, Landau D, and Sheiner E. Maternal smoking during pregnancy and the risk of pediatric cardiovascular diseases of the offspring: A population-based cohort study with up to 18-years of follow up. *Reproductive Toxicology*, 2018; 78:69-74. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29604341>

Albers L, Sobotzki C, Kuss O, Ajslev T, Batista RF, et al. Maternal smoking during pregnancy and offspring overweight: Is there a dose-response relationship? An individual patient data meta-



analysis. *International Journal of Obesity*, 2018; 42(7):1249-64. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/29717267>

Magriplis E, Farajian P, Panagiotakos DB, Risvas G, and Zampelas A. Maternal smoking and risk of obesity in school children: Investigating early life theory from the greco study. *Prev Med Rep*, 2017; 8:177-82. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29071203>

Lisboa PC, Soares PN, Peixoto TC, Carvalho JC, Calvino C, et al. Effects of cigarette smoke exposure during suckling on food intake, fat mass, hormones, and biochemical profile of young and adult female rats. *Endocrine*, 2017; 57(1):60-71. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/28527122>

Golding J, Ellis G, Gregory S, Birmingham K, Iles-Caven Y, et al. Grand-maternal smoking in pregnancy and grandchild's autistic traits and diagnosed autism. *Science Reports*, 2017; 7:46179. Available from: <https://www.nature.com/articles/srep46179>

<http://www.ncbi.nlm.nih.gov/pubmed/28448061>

Cabral M, Fonseca MJ, Gonzalez-Beiras C, Santos AC, Correia-Costa L, et al. Maternal smoking: A life course blood pressure determinant? *Nicotine and Tobacco Research*, 2017. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/28575495>

Aucott L, Bhattacharya S, McNeill, and Turner S. Differences in body mass index between siblings who are discordant for exposure to antenatal maternal smoking. *Paediatric and Perinatal Epidemiology*, 2017; 31(5):402-8. Available from:

<http://onlinelibrary.wiley.com/doi/10.1111/ppe.12386/full>

<http://www.ncbi.nlm.nih.gov/pubmed/28767144>

Robinson O, Martinez D, Aurrekoetxea JJ, Estarlich M, Somoano AF, et al. The association between passive and active tobacco smoke exposure and child weight status among spanish children. *Obesity (Silver Spring)*, 2016; 24(8):1767-77. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/27367931>

Li L, Peters H, Gama A, Carvalhal MI, Nogueira HG, et al. Maternal smoking in pregnancy association with childhood adiposity and blood pressure. *Pediatr Obes*, 2015. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/26178147>

Grzeskowiak LE, Hodyl NA, Stark MJ, Morrison JL, and Clifton VL. Association of early and late maternal smoking during pregnancy with offspring body mass index at 4 to 5 years of age. *J Dev Orig Health Dis*, 2015; 6(6):485-92. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26434993>

Wang L, Mamudu HM, Alamian A, Anderson JL, and Brooks B. Independent and joint effects of prenatal maternal smoking and maternal exposure to second-hand smoke on the development of adolescent obesity: A longitudinal study. *Journal of Paediatrics and Child Health*, 2014; 50(11):908-15. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24920104>

Moller SE, Ajslev TA, Andersen CS, Dalgard C, and Sorensen TI. Risk of childhood overweight after exposure to tobacco smoking in prenatal and early postnatal life. *PLoS ONE*, 2014; 9(10):e109184. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25310824>

Lee KW, Abrahamowicz M, Leonard GT, Richer L, Perron M, et al. Prenatal exposure to cigarette smoke interacts with to modulate dietary preference for fat. *Journal of Psychiatry and Neuroscience*, 2014; 39(4):130263. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25266401>

Kapaya H, Broughton Pipkin F, Hayes-Gill B, and Loughna PV. Smoking in pregnancy affects the fetal heart: Possible links to future cardiovascular disease. *Journal of Maternal-Fetal and Neonatal Medicine*, 2014:1-17. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25212975>

Taal HR, de Jonge LL, van Osch-Gevers L, Steegers EA, Hofman A, et al. Parental smoking during pregnancy and cardiovascular structures and function in childhood: The generation r study. *International Journal of Epidemiology*, 2013; 42(5):1371-80. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24159077>

Geelhoed JJ, El Marroun H, Verburg BO, van Osch-Gevers L, Hofman A, et al. Maternal smoking during pregnancy, fetal arterial resistance adaptations and cardiovascular function in childhood. *BJOG*, 2011; 118(6):755-62. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/21385303>

Wen X, Triche EW, Hogan JW, Shenassa ED, and Buka SL. Birth weight and adult hypercholesterolemia: Subgroups of small-for-gestational-age based on maternal smoking status during pregnancy. *Epidemiology*, 2010; 21(6):786-90. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/20798636>

Ino T. A meta-analysis of association between maternal smoking during pregnancy and offspring obesity. *Pediatrics International*, 2010; 52(1):94-9. Available from: <http://onlinelibrary.wiley.com/doi/10.1111/j.1442-200X.2009.02883.x/full>

Cohen G, Jeffery H, Lagercrantz H, and Katz-Salamon M. Long-term reprogramming of cardiovascular function in infants of active smokers. *Hypertension*, 2010; 55(3):722-8. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/20100999>

Somm E, Schwitzgebel V, Vauthay D, Aubert M, and Hüppi P. Prenatal nicotine exposure and the programming of metabolic and cardiovascular disorders. *Molecular and Cellular Endocrinology*, 2009; 304(1-2):69-77. Available from: [www.ncbi.nlm.nih.gov/pubmed/19433250](http://www.ncbi.nlm.nih.gov/pubmed/19433250)

Ng SP, Conklin DJ, Bhatnagar A, Bolanowski DD, Lyon J, et al. Prenatal exposure to cigarette smoke induces diet- and sex-dependent dyslipidemia and weight gain in adult murine offspring. *Environmental Health Perspectives*, 2009; 117(7):1042-8. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/19654910>

Ng SP, Conklin DJ, Bhatnagar A, Bolanowski DD, Lyon J, et al. Prenatal exposure to cigarette smoke induces diet- and sex-dependent dyslipidemia and weight gain in adult murine offspring. *Environmental Health Perspectives*, 2009; 117(7):1042-8. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/19654910>

Oken E, Levitan EB, and Gillman MW. Maternal smoking during pregnancy and child overweight: Systematic review and meta-analysis. *International Journal of Obesity*, 2008; 32(2):201-10. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/18278059>

Mendez MA, Torrent M, Ferrer C, Ribas-Fitó N, and Sunyer J. Maternal smoking very early in pregnancy is related to child overweight at age 5–7 y. *American Journal of Clinical Nutrition*, 2008; 87(6):1906–13. Available from: <http://www.ajcn.org/cgi/content/full/87/6/1906>

Jaddoe V, de Ridder M, van den Elzen A, Hofman A, Uiterwaal C, et al. Maternal smoking in pregnancy is associated with cholesterol development in the offspring: A 27-years follow-up study. *Atherosclerosis*, 2008; 196(1):42–8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/17336310>

Edstedt Bonamy A-K, Bengtsson J, Nagy Z, De Keyzer H, and Norman M. Preterm birth and maternal smoking in pregnancy are strong risk factors for aortic narrowing in adolescence. *Acta Pædiatrica*, 2008; 97(8):1080–5. Available from: <http://onlinelibrary.wiley.com/doi/10.1111/j.1651-2227.2008.00890.x/full>

Brion MJ, Leary SD, Lawlor DA, Smith GD, and Ness AR. Modifiable maternal exposures and offspring blood pressure: A review of epidemiological studies of maternal age, diet, and smoking. *Pediatric Research*, 2008; 63(6):593-8. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/18317238>

Al Mamun A, Lawlor D, Alati R, O'Callaghan M, Williams G, et al. Does maternal smoking during pregnancy have a direct effect on future offspring obesity? Evidence from a prospective birth cohort study. *American Journal of Epidemiology*, 2006; 164(4):317–25. Available from: <http://aje.oxfordjournals.org/cgi/content/full/164/4/317>

### 3.8.9 Vision problems

Chapron, T, Pierrat, V, Barjol, A, Marchand, L, Caputo, G, Ancel, PY, & Torchin, H. (2024). Gestational age, maternal smoking, neurological lesion and retinopathy predict strabismus at age 5.5 in preterm children. *Acta Paediatr*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39262057>

Lackner, CL, Thompson, B, Santesso, D L, Wade, TJ, & Segalowitz, SJ. (2023). Perinatal nicotine exposure relates to stimulus-locked event-related potentials in early adolescence during an emotional go/no-go task. *Neurotoxicol Teratol*, 97, 107175. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37028464>

Hudalla, H, Bruckner, T, Poschl, J, Strowitzki, T, & Kuon, RJ. (2020). Maternal smoking as an independent risk factor for the development of severe retinopathy of prematurity in very preterm infants. *Eye (Lond)*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32398853>

Castillo O, Gonzalez I, Prieto E, Perez T, Altemir I, et al. Effects of prenatal exposure to alcohol, tobacco and other drugs of abuse on retinal development. *Arch Soc Esp Oftalmol*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30270036>

### 3.8.10 Physical development

Taylor, EJ, Ziauddeen, N, Berrington, A, Godfrey, KM, & Alwan, NA. (2024). Quantifying the effect of interpregnancy maternal weight and smoking status changes on childhood overweight and obesity in a UK population-based cohort. *PLoS One*, *19*(10), e0311677. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39374249>

Holopainen, LS, Tahtinen, HH, Gissler, M, Korhonen, PE, & Ekblad, MO. (2024). Interaction of maternal smoking and gestational diabetes mellitus on newborn head circumference and birthweight. *Acta Obstet Gynecol Scand*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39004941>

de Ruyter, H, Aitokari, L, Lahti, S, Riekkii, H, Huhtala, H, Lakka, T et al. (2024). Maternal gestational hypertension, smoking and pre-eclampsia are associated with metabolic dysfunction-associated fatty liver disease in overweight offspring. *Acta Obstet Gynecol Scand*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38433535>

Peng, Y, Tun, HM, Ng, SC, Wai, HK, Zhang, X, Parks, J et al. (2024). Maternal smoking during pregnancy increases the risk of gut microbiome-associated childhood overweight and obesity. *Gut Microbes*, *16*(1), 2323234. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38436093>

Ylostalo, T, Saha, MT, Nummi, T, Harjunmaa, U, Salo, MK, & Vuorela, N. (2024). Maternal weight, smoking, and diabetes provided early predictors of longitudinal body mass index growth patterns in childhood. *Acta Paediatr*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38324472>

Srivastava, P, Trinh, TA, Hallam, KT, Karimi, L, & Hollingsworth, B. (2024). The links between parental smoking and childhood obesity: data of the longitudinal study of Australian children. *BMC Public Health*, *24*(1), 68. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38166719>

Popham, K, & Kandasamy, Y. (2023). The impact of smoking and nicotine exposure during pregnancy on fetal nephrogenesis: a systematic review. *J Dev Orig Health Dis*, 1-11. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37969035>

Kaanta, E, Parviainen, R, Tikanmaki, M, Alenius, S, Sinikumpu, JJ, & Kajantie, E. (2023). Maternal Smoking During Pregnancy and Offspring's Risk for Bone Fracture in Childhood and Adolescence. *J Bone Miner Res*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37823763>

Vidal, AC, Chandramouli, SA, Marchesoni, J, Brown, N, Liu, Y, Murphy, SK et al. (2023). AHRR Hypomethylation mediates the association between maternal smoking and metabolic profiles in children. *Hepato Comm*, *7*(10). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37755881>

Wu, Y, Hao, X, Zhu, K, Zheng, C, Guan, F, Zeng, P, & Wang, T. (2023). Long-term adverse influence of smoking during pregnancy on height and body size of offspring at ten years old in the UK Biobank cohort. *SSM Popul Health*, *24*, 101506. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37692834>

Hou, W, Zhang, M, Ji, Y, Hong, X, Wang, G, Xu, R et al. (2022). A prospective birth cohort study of maternal prenatal cigarette smoking assessed by self-report and biomarkers on childhood risk of overweight or obesity. *Precis Nutr*, *1*(3), e00017. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37744083>

- Cevik, J, Salehi, O, Gaston, J, & Rozen, WM. (2023). Maternal Cigarette Smoking and Congenital Upper and Lower Limb Differences: A Systematic Review and Meta-Analysis. *J Clin Med*, 12(13). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37445217>
- Rasmussen, JB, Rath, SM, Wu, C, Weile, LKK, Schmal, H, Olsen, J et al. (2023). Fractures in Childhood and Young Adulthood According to Maternal Smoking in Late Pregnancy. A Danish Cohort Study. *Z Orthop Unfall*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37463590>
- Hou, W, Zhang, M, Ji, Y, Hong, X, Wang, G, Xu, R et al. (2022). A prospective birth cohort study of maternal prenatal cigarette smoking assessed by self-report and biomarkers on childhood risk of overweight or obesity. *Precis Nutr*, 1(3). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36970370>
- Cetin, C, Bakar, RZ, Takmaz, T, Pasin, O, & Kutuk, MS. (2023). The effects of maternal smoking on fetal cranial development. Findings from routine midtrimester sonographic anomaly screening. *J Obstet Gynaecol*, 43(1), 2176205. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36772953>
- Kong, KL, Lee, JK, Shisler, S, Thanos, PK, Huestis, MA, Hawk, L, & Eiden, RD. (2023). Prenatal tobacco and cannabis co-exposure and offspring obesity development from birth to mid-childhood. *Pediatr Obes*, e13010. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36734672>
- Nkomo, NY, Simo-Kengne, BD, & Biyase, M. (2023). Maternal tobacco smoking and childhood obesity in South Africa: A cohort study. *PLoS One*, 18(2), e0268313. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36757945>
- Moore, BF, Kreitner, KJ., Starling, AP, Martenies, SE, Magzamen, S, Clark, M, & Dabelea, D. (2022). Early-life exposure to tobacco and childhood adiposity: Identifying windows of susceptibility. *Pediatr Obes*, 17(12), e12967. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36350199>
- Perkins, J, Re, T, Ong, S, Niu, Z, & Wen, X. (2022). Meta-Analysis on Associations of Timing of Maternal Smoking Cessation before and during Pregnancy with Childhood Overweight and Obesity. *Nicotine Tob Res*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36106723>
- White, O, Roeder, N, Blum, K, Eiden, RD, & Thanos, PK. (2022). Prenatal Effects of Nicotine on Obesity Risks: A Narrative Review. *Int J Environ Res Public Health*, 19(15). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35954830>
- Mourino, N, Perez-Rios, M, Yolton, K, Lanphear, BP, Chen, A, Buckley, JP et al. (2022). Pre- and postnatal exposure to secondhand tobacco smoke and body composition at 12 years: periods of susceptibility. *Obesity (Silver Spring)*, 30(8), 1659-1669. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35894081>
- Schnurr, TM, Angquist, L, Nohr, EA, Hansen, T, Sorensen, TI A, & Morgen, CS. (2022). Smoking during pregnancy is associated with child overweight independent of maternal pre-pregnancy BMI and genetic predisposition to adiposity. *Sci Rep*, 12(1), 3135. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35210505>
- Horiuchi, S, Shinohara, R, Otawa, S, Kushima, M, Akiyama, Y, Ooka, T et al. (2021). Influence of Maternal Active and Secondhand Smoking during Pregnancy on Childhood Obesity at 3 Years of Age:

- A Nested Case-Control Study from the Japan Environment and Children's Study (JECS). *Int J Environ Res Public Health*, 18(23). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34886230>
- Tsumi, E, Lavy, Y, Wainstock, T, Barrett, C, Imtirat, A, & Sheiner, E. (2021). Maternal smoking during pregnancy and long-term ophthalmic morbidity of the offspring. *Early Hum Dev*, 163, 105489. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34775174>
- Cajachagua-Torres, KN, El Marroun, H, Reiss, IKM, Santos, S, & Jaddoe, VWV. (2021). Foetal tobacco and cannabis exposure, body fat and cardio-metabolic health in childhood. *Pediatr Obes*, e12863. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34674394>
- Lee, SS, Mackey, DA, Sanfilippo, PG, Hewitt, AW, Craig, JE, & Yazar, S. (2021). In Utero Exposure to Smoking and Alcohol, and Passive Smoking during Childhood: Effect on the Retinal Nerve Fibre Layer in Young Adulthood. *Ophthalmic Epidemiol*, 1-8. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34486472>
- Galloway, J, Farnell, DJJ, Richmond, S, & Zhurov, AI. (2020). Multilevel Analysis of the Influence of Maternal Smoking and Alcohol Consumption on the Facial Shape of English Adolescents. *J Imaging*, 6(5). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34460736>
- Garcia-Villarino, M, Fernandez-Iglesias, R, Riano-Galan, I, Rodriguez-Dehli, C, Babarro, I, Fernandez-Somoano, A, & Tardon, A. (2021). Prenatal Exposure to Cigarette Smoke and Anogenital Distance at 4 Years in the INMA-Asturias Cohort. *Int J Environ Res Public Health*, 18(9). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33947132>
- Modjadji, P, & Pitso, M. (2021). Maternal Tobacco and Alcohol Use in Relation to Child Malnutrition in Gauteng, South Africa: A Retrospective Analysis. *Children (Basel)*, 8(2). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33670265>
- Knudsen, GTM, Dharmage, S, Janson, C, Abramson, MJ, Benediktsdottir, B, Malinovsky, A et al (2020). Parents' smoking onset before conception as related to body mass index and fat mass in adult offspring: Findings from the RHINESSA generation study. *PLoS One*, 15(7), e0235632. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32628720>
- Brand, JS, Hiyoshi, A, Cao, Y, Lawlor, DA, Chattingius, S, & Montgomery, S. (2020). Maternal smoking during pregnancy and fractures in offspring: national register based sibling comparison study. *BMJ (Clinical Research Ed.)*, 368, l7057. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31996343>
- Baradaran Mahdavi, S, Daniali, SS, Farajzadegan, Z, Bahreynian, M, Riahi, R, & Kelishadi, R. (2020). Association between maternal smoking and child bone mineral density: a systematic review and meta-analysis. *Environ Sci Pollut Res Int*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32314283>
- Yang, Q, Pan, L, Shen, C, Yao, H, Zhu, Q, Cheng, C, & Wang, R. (2020). Mothers' prenatal tobacco smoke exposure is positively associated with the occurrence of developmental coordination disorder among children aged 3-6 years: A cross-sectional study in a rural area of Shanghai, China. *Tob Induc Dis*, 18, 25. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32292315>

Gao, H, Huang, Z, Jia, Z, Ye, H, Fu, F, Song, M et al. (2020). Influence of passive smoking on the onset of Legg-Calve-Perthes disease: a systematic review and meta-analysis. *J Pediatr Orthop B*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32141957>

Ayubi, E, Safiri, S, & Mansori, K. (2020). Association between Maternal Smoking during Pregnancy and Risk of Bone Fractures in Offspring: A Systematic Review and Meta-analysis. *Clinical and Experimental Pediatrics*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32023402>

Osorio-Yanez, C, Clemente, DBP, Maitre, L, Vives-Usano, M, Bustamante, M, Martinez, D et al. (2020). Early life tobacco exposure and children's telomere length: The HELIX project. *Sci Total Environ*, 711, 135028. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32000334>

da Silva Magalhaes EI, Peixoto Lima N, Baptista Menezes AM, Goncalves H, Wehrmeister FC, et al. Maternal smoking during pregnancy and offspring body composition in adulthood: Results from two birth cohort studies. *BMJ Open*, 2019; 9(6):e023852. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31196896>

Brix N, Ernst A, Lauridsen LLB, Parner ET, Arah OA, et al. Maternal pre-pregnancy body mass index, smoking in pregnancy, and alcohol intake in pregnancy in relation to pubertal timing in the children. *BMC Pediatrics*, 2019; 19(1):338. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31526385>

Correction: Maternal smoking during pregnancy and offspring body composition in adulthood: Results from two birth cohort studies. *BMJ Open*, 2019; 9(6):e023852corr1. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31239310>

Wen X, Eiden RD, Justicia-Linde FE, Wang Y, Higgins ST, et al. Reducing fetal origins of childhood obesity through maternal smoking cessation during pregnancy: An intervention study. *International Journal of Obesity*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30518822>

Mukherjee N, Sutter TR, Arshad SH, Holloway JW, Zhang H, et al. Breastfeeding duration modifies the effect of smoking during pregnancy on eczema from early childhood to adolescence. *Clinical and Experimental Allergy*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30311981>  
<https://onlinelibrary.wiley.com/doi/abs/10.1111/cea.13294>

Koziel S, Zadzińska E, and Gomula A. Parental smoking during pregnancy and head shape and size in school children. *Annals of Human Biology*, 2018:1-5. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30328722>

Hoffman HJ. Childhood hearing loss and established risk factors: What is the contribution of tobacco exposure prenatally or after birth? *Paediatric and Perinatal Epidemiology*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30211454>

Filis P, Hombach-Klonisch S, Ayotte P, Nagrath N, Soffientini U, et al. Maternal smoking and high bmi disrupt thyroid gland development. *BMC Medicine*, 2018; 16(1):194. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30348172>

[https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6198368/pdf/12916\\_2018\\_Article\\_1183.pdf](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6198368/pdf/12916_2018_Article_1183.pdf)

Albers L, von Kries R, Sobotzki C, Gao HJ, Buka SL, et al. Differences in maternal smoking across successive pregnancies - dose-dependent relation to bmi z-score in the offspring: An individual patient data (ipd) meta-analysis. *Obesity Reviews*, 2018; 19(9):1248-55. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30035359>

Velez MP, Arbuckle TE, Monnier P, and Fraser WD. Is maternal periconceptional smoking associated with 2d:4d digit ratio in their children? *J Dev Orig Health Dis*, 2017:1-7. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28532524>

Parviainen R, Auvinen J, Pokka T, Serlo W, and Sinikumpu JJ. Maternal smoking during pregnancy is associated with childhood bone fractures in offspring - a birth-cohort study of 6718 children. *Bone*, 2017; 101:202-5. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28479497>

Kellesarian SV, Malignaggi VR, de Freitas P, Ahmed HB, and Javed F. Association between prenatal maternal cigarette smoking and early childhood caries. A systematic review. *J Clin Exp Dent*, 2017; 9(9):e1141-e6. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29075418>

Figueiredo RAO, Roos E, Eriksson JG, Simola-Strom S, and Weiderpass E. Maternal alcohol and tobacco consumption and the association with their 9 to 14-year-old children's body mass index. *Scandinavian Journal of Public Health*, 2017; 45(5):503-10. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28385059>

Al-Ani A, Antoun J, Thomson W, Merriman T, and Farella M. Maternal smoking during pregnancy is associated with offspring hypodontia. *Journal of Dental Research*, 2017; 96(9):1014-9. Available from: <http://journals.sagepub.com/doi/abs/10.1177/0022034517711156>  
<http://www.ncbi.nlm.nih.gov/pubmed/28535361>

Claudia C, Ju X, Mejia G, and Jamieson L. The relationship between maternal smoking during pregnancy and parental-reported experience of dental caries in indigenous australian children. *Community Dental Health*, 2016; 33(4):297-302. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28537368>

Christensen LH, Hoyer BB, Pedersen HS, Zinchuk A, Jonsson BA, et al. Prenatal smoking exposure, measured as maternal serum cotinine, and children's motor developmental milestones and motor function: A follow-up study. *Neurotoxicology*, 2016; 53:236-45. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26899398>

Altun I and Yuksel KZ. An experimental study on the effects of smoking in the perinatal period and during lactation on the intervertebral discs of newborns. *World Neurosurg*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27913258>

Zheng W, Suzuki K, Shinohara R, Sato M, Yokomichi H, et al. Maternal smoking during pregnancy and growth in infancy: A covariance structure analysis. *Journal of Epidemiology*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25327186>

Shenoi S, Bell S, Wallace CA, and Mueller BA. Juvenile idiopathic arthritis in relation to maternal prenatal smoking. *Arthritis Care Res (Hoboken)*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25201389>



Muraro AP, Goncalves-Silva RM, Moreira NF, Ferreira MG, Nunes-Freitas AL, et al. Effect of tobacco smoke exposure during pregnancy and preschool age on growth from birth to adolescence: A cohort study. *BMC Pediatrics*, 2014; 14:99. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24721026>

### *3.8.11 Puberty and fertility*

Garlantezec R, Multigner L, and Oliva A. Maternal smoking during pregnancy, semen characteristics and reproductive hormone levels in men consulting for couple infertility. *Andrologia*, 2019; 51(10):e13423. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31571259>

Valgeirsdottir H, Vanky E, Sundström-Poromaa I, Roos N, Løvvik T, et al. Prenatal exposures and birth indices, and subsequent risk of polycystic ovary syndrome: A national registry-based cohort study. *BJOG: An International Journal of Obstetrics & Gynaecology*, 2018; 0(0). Available from: <https://obgyn.onlinelibrary.wiley.com/doi/abs/10.1111/1471-0528.15236>

Priskorn L, Nordkap L, Bang AK, Krause M, Holmboe SA, et al. Average sperm count remains unchanged despite reduction in maternal smoking: Results from a large cross-sectional study with annual investigations over 21 years. *Human Reproduction*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29659832>

Houghton LC, Goldberg M, Wei Y, Cirillo PM, Cohn BA, et al. Why do studies show different associations between intrauterine exposure to maternal smoking and age at menarche? *Annals of Epidemiology*, 2018; 28(3):197-203. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29482744>

Chen Y, Liu Q, Li W, Deng X, Yang B, et al. Association of prenatal and childhood environment smoking exposure with puberty timing: A systematic review and meta-analysis. *Environ Health Prev Med*, 2018; 23(1):33. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30021511>

Brix N, Ernst A, Lauridsen LLB, Parner ET, Olsen J, et al. Maternal smoking during pregnancy and timing of puberty in sons and daughters: A population-based cohort study. *American Journal of Epidemiology*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30239589>

Windham GC, Lum R, Voss R, Wolff M, Pinney SM, et al. Age at pubertal onset in girls and tobacco smoke exposure during pre- and postnatal susceptibility windows. *Epidemiology*, 2017; 28(5):719-27. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28661938>

Honorato TC, Haadsma ML, Land JA, Boezen MH, Hoek A, et al. In-utero cigarette smoke exposure and the risk of earlier menopause. *Menopause*, 2017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28858026>

Fowler PA, Filis P, Bhattacharya S, le Bizec B, Antignac JP, et al. Human anogenital distance: An update on fetal smoke-exposure and integration of the perinatal literature on sex differences. *Human Reproduction*, 2016; 31(2):463-72. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26732622>

Yermachenko A and Dvornyk V. A meta-analysis provides evidence that prenatal smoking exposure decreases age at menarche. *Reproductive Toxicology*, 2015; 58:222-8. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/26542102>

Mattsson K, Kallen K, Rignell-Hydbom A, Hansson SR, McElrath TF, et al. Maternal smoking during pregnancy and daughters' preeclampsia risk. *PLoS ONE*, 2015; 10(12):e0144207. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26630273>

Behie AM and O'Donnell MH. Prenatal smoking and age at menarche: Influence of the prenatal environment on the timing of puberty. *Human Reproduction*, 2015; 30(4):957-62. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25740885>

Sobinoff AP, Sutherland JM, Beckett EL, Stanger SJ, Johnson R, et al. Damaging legacy: Maternal cigarette smoking has long-term consequences for male offspring fertility. *Human Reproduction*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25269568>

Ye X, Skjaerven R, Basso O, Baird DD, Eggesbo M, et al. In utero exposure to tobacco smoke and subsequent reduced fertility in females. *Human Reproduction*, 2010; 25(11):2901-6. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/20817739>

Lutterodt MC, Sorensen KP, Larsen KB, Skouby SO, Andersen CY, et al. The number of oogonia and somatic cells in the human female embryo and fetus in relation to whether or not exposed to maternal cigarette smoking. *Human Reproduction*, 2009; 24(10):2558-66. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/19553240>

Hart R, Sloboda DM, Doherty DA, Norman RJ, Atkinson HC, et al. Prenatal determinants of uterine volume and ovarian reserve in adolescence. *Journal of Clinical Endocrinology and Metabolism*, 2009; 94(12):4931-7. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/19846735>

Fowler PA, Cassie S, Rhind SM, Brewer MJ, Collinson JM, et al. Maternal smoking during pregnancy specifically reduces human fetal desert hedgehog gene expression during testis development. *Journal of Clinical Endocrinology and Metabolism*, 2008; 93(2):619-26. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/18000085>

### *3.8.12 Nicotine dependence*

Stratilov, V, Vetrovoy, O, Potapova, S, & Tyulkova, E. (2024). The prenatal hypoxic pathology associated with maternal stress predisposes to dysregulated expression of the chrna7 gene and the subsequent development of nicotine addiction in adult offspring. *Neuroendocrinology*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38198758>

Flores, A, Gowen, A, Schaal, VL, Koul, S, Hernandez, JB, Yelamanchili, SV, & Pendyala, G. (2023). An Integrated Systems Approach to Decode the Impact of Adolescent Nicotine Exposure in Utero and Postnatally Oxycodone Exposed Offspring. *Res Sq*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37066266>

De Genna NM, Goldschmidt L, Day NL, and Cornelius MD. Prenatal tobacco exposure, maternal postnatal nicotine dependence and adolescent risk for nicotine dependence: Birth cohort study.

Neurotoxicology and Teratology, 2017; 61:128-32. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/28242457>

### 3.8.13 Breastfeeding and smoking

**Okawa, S, Nanishi, K, Iso, H, & Tabuchi, T. (2024). Association between cigarette and heated tobacco use and breastfeeding cessation within 6 months postpartum in Japan: an internet-based cross-sectional study. *Sci Rep*, 14(1), 29214. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39587127>**

Costa-Romero, M, Mella-Bermudez, A, & Iglesias-Cabo, T. (2024). Association between maternal smoking and duration of breastfeeding in very low birth weight preterm infants after discharge from a Neonatal Intensive Care Unit. *Tob Prev Cessat*, 10. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39474523>

Momani, MS, Al Tarawni, A, Momani, YM, Rahhal, S, Elhaj, I, Al-Halhouli, D, & Alhawari, H. (2024). Effect of Age, Gender, Food Intake, Obesity, and Smoking on Serum Levels of Prolactin in Healthy Adults. *J Pers Med*, 14(9). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39338159>

St Fleur, RG, von Ash, T, Alikhani, A, Dunsiger, SI, & Risica, PM. (2024). Trajectories of Breastfeeding-Related Thoughts and Attitudes Among Low-Income Smoke-Exposed Pregnant Women: A Latent Class Growth Analysis. *J Hum Lact*, 8903344241274748. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39344028>

Bhandari, Y, Das, A, Aditi, A, Kishore, J, & Goel, S. (2024). Tobacco and alcohol use among lactating women and its association with child nutrition in India: findings from National Family Health Survey 2019-2021. *Public Health*, 236, 153-160. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39208709>

Chiba, T, Takaguri, A, Mikuma, T, Kimura, T, & Maeda, T. (2024). Smoking-induced suppression of beta-casein in milk is associated with an increase in miR-210-5p expression in mammary epithelia. *Biochem Biophys Res*, 39, 101773. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39044768>

Mansouri, B, Azadi, NA, Sharafi, K, & Nakhaee, S. (2023). The effects of active and passive smoking on selected trace element levels in human milk. *Sci Rep*, 13(1), 20756. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38007512>

Blaze, KSR, Xu, H, Buchanan, L, Baur, LA, & Wen, LM. (2023). Parental smoking in the first two years of a child's life and its associations with breastfeeding. *Aust N Z J Obstet Gynaecol*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37463865>

Hoyt, AT, Wilkinson, AV, Langlois, PH, Galeener, CA, Ranjit, N, Dabelea, DM, & Moore, BF. (2023). Prenatal Exposure to Tobacco and Childhood Cognition and Behavior: Effect Modification by Maternal Folate Intake and Breastfeeding Duration. *Child Psychiatry Hum Dev*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37029873>

Miranda, RA, Rodrigues, VST, Peixoto, TC, Manhaes, AC, de Moura, EG, & Lisboa, PC. (2023). Nicotine exposure during breastfeeding alters the expression of endocannabinoid system biomarkers in

- female but not in male offspring at adulthood. *J Dev Orig Health Dis*, 1-11. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36815400>
- Liu, L, Cheng, S, Wen, Y, Jia, Y, Cheng, B, Meng, P et al. (2022). Maternal smoking around birth may lower the protective effects of breastfeeding on anxiety, depression and neuroticism in adult offspring: a UK biobank study. *Eur Arch Psychiatry Clin Neurosci*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35962842>
- Pereira Junior, AA, de Amorim, GES, Garcia, RCT, Ribeiro, J M, Silva, AO, Almeida, CAF et al. (2022). Nicotine exposure through breastfeeding affects BDNF and synaptic proteins levels in the brain of stressed adult female mice. *Int J Dev Neurosci*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36018565>
- Nidey, N, Groh, K, Agnoli, A, Wilder, C, Froehlich, TE, Weber, S, & Kair, LR. (2022). Breastfeeding Initiation and Continuation Among Women with Substance and Tobacco Use During Pregnancy: Findings from the Pregnancy Risk Assessment Monitoring System 2016-2018. *Breastfeed Med*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35475630>
- Zhang, K, Siziba, LP, Suo, NJ, Rothenbacher, D & Genuneit, J. (2022). Breastfeeding duration is positively associated with decreased smoking relapse in the postpartum period. *Midwifery*, 108, 103289. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35240432>
- Issany, A, Hore, M, Singh, L, Israel, J, Kocher, MG, & Wen, X. (2022). Reciprocal Associations Between Maternal Smoking Cessation and Breastfeeding. *Breastfeed Med*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35166565>
- Eidelman, AI. (2021). Smoking, Vaping, While Breastfeeding in the Era of COVID-19. *Breastfeed Med*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34582271>
- Miguez, MC, & Pereira, B. (2021). Effects of active and/or passive smoking during pregnancy and the postpartum period. *An Pediatr (Engl Ed)*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34556446>
- Schindler-Ruwisch, J, Roess, A, Robert, RC, Kuehn, D, Woody, E, Vinjamuri, S, & Thompson, P. (2021). Smoking and Race Associated with Decreased Breastfeeding Initiation and Duration Among a Low Income Population. *Breastfeed Med*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34582269>
- Can Ozalp, E, & Yalcin, SS. (2021). Is maternal cigarette or water pipe use associated with stopping breastfeeding? Evidence from the Jordan population and family health surveys 2012 and 2017-18. *Int Breastfeed J*, 16(1), 43. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34053454>
- Enggar, Pont, AV, Alam, G, & Madeppungeng, M. (2020). The effect of parity, nutritional status, age of baby and smoking status to antioxidant of breast milk. *Enferm Clin*, 30 Suppl 6, 308-311. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33040928>
- Macchi, M, Bambini, L., Franceschini, S, Alexa, ID, & Agostoni, C. (2020). The effect of tobacco smoking during pregnancy and breastfeeding on human milk composition-a systematic review. *Eur J Clin Nutr*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33087893>

Al-Sawalha, NA, Pokkunuri, ID, Alzoubi, KH, Khabour, OF, & Almomani, BN. (2020). Waterpipe Tobacco Smoke Exposure during Lactation-Susceptibility of Reproductive Hormones and Oxidative Stress Parameters in Male Progeny Rats. *Reprod Sci*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32748221>

Miranda, RA, Gaspar de Moura, E, & Lisboa, PC. (2020). Tobacco smoking during breastfeeding increases the risk of developing metabolic syndrome in adulthood: Lessons from experimental models. *Food Chem Toxicol*, 144, 111623. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32738371>

Gibson, L, & Porter, M. (2020). Drinking or Smoking While Breastfeeding and Later Academic Outcomes in Children. *Nutrients*, 12(3). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32336274>

Gibson, L, & Porter, M. (2020). Drinking or smoking while breastfeeding and later developmental health outcomes in children. *BMC Res Notes*, 13(1), 232. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32244947>

Fernandes, RC, & Hofelmann, DA. (2020). Intention to breastfeed among pregnant women: association with work, smoking, and previous breastfeeding experience. *Cien Saude Colet*, 25(3), 1061-1072. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32159674>

Godleski, SA, Shisler, S, Eiden, RD, & Schuetze, P. (2020). Maternal Smoking and Psychosocial Functioning: Impact on Subsequent Breastfeeding Practices. *Breastfeed Med*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32150684>

Zhou SJ, Hawke K, Collins CT, Gibson RA, and Makrides M. Does maternal smoking in pregnancy explain the differences in the body composition trajectory between breastfed and formula-fed infants? *British Journal of Nutrition*, 2019:1-23. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31699167>

Memis EY and Songul Yalcin S. Human milk mycotoxin contamination: Smoking exposure and breastfeeding problems. *Journal of Maternal-Fetal and Neonatal Medicine*, 2019:1-291. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30810418>

Lechosa Muniz C, Paz-Zulueta M, Del Rio EC, Sota SM, Saez de Adana M, et al. Impact of maternal smoking on the onset of breastfeeding versus formula feeding: A cross-sectional study. *International Journal of Environmental Research and Public Health*, 2019; 16(24). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31817170>

Duman M, Timur Tashan S, and Durgun Ozan Y. Association of postpartum smoking relapse with breastfeeding and body mass index. *J Addict Nurs*, 2019; 30(2):87-93. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31162211>

Burianova I, Bronsky J, Pavlikova M, Janota J, and Maly J. Maternal body mass index, parity and smoking are associated with human milk macronutrient content after preterm delivery. *Early Human Development*, 2019; 137:104832. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31422343>

Bertini G, Elia S, Lori S, and Dani C. Abnormal neurological soft signs in babies born to smoking mothers were associated with lower breastfeeding for first three months. *Acta Paediatrica*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30788864>

Benetou V, Tavoulari EF, Gryparis A, and Linos A. Reducing caesarean sections and smoking after delivery could help to tackle shorter exclusive breastfeeding duration. *Acta Paediatrica*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31273844>

Napierala M, Merritt TA, Miechowicz I, Mielnik K, Mazela J, et al. The effect of maternal tobacco smoking and second-hand tobacco smoke exposure on human milk oxidant-antioxidant status. *Environmental Research*, 2018; 170:110-21. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30579160>

May PA, Manning MA, and Hoyme HE. Comment on drinking or smoking while breastfeeding and later cognition in children. *Pediatrics*, 2018; 142(5). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30381473>

Gibson L and Porter M. Drinking or smoking while breastfeeding and later cognition in children. *Pediatrics*, 2018; 142(2). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30061301>

Behrooz L, Balekian DS, Faridi MK, Espinola JA, Townley LP, et al. Prenatal and postnatal tobacco smoke exposure and risk of severe bronchiolitis during infancy. *Respiratory Medicine*, 2018; 140:21-6. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29957275>

Wallby T, Lagerberg D, and Magnusson M. Relationship between breastfeeding and early childhood obesity: Results of a prospective longitudinal study from birth to 4 years. *Breastfeeding Medicine*, 2017; 12:48-53. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27991826>

Lee SH, Weerasinghe W, and van der Werf JHJ. Genotype-environment interaction on human cognitive function conditioned on the status of breastfeeding and maternal smoking around birth. *Sci Rep*, 2017; 7(1):6087. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28729621>

Kim SM, Kim SJ, Kim JY, Kim JR, and Cho KH. Breast milk from smokers contains less cholesterol and protein and smaller size of apolipoprotein a-i resulting in lower zebrafish embryo survivability. *Breastfeeding Medicine*, 2017. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28631934>

Wallenborn JT and Masho SW. The interrelationship between repeat cesarean section, smoking status, and breastfeeding duration. *Breastfeeding Medicine*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27626973>

Vieira TO, Martins CD, Santana GS, Vieira GO, and Silva LR. [maternal intention to breastfeed: A systematic review]. *Cien Saude Colet*, 2016; 21(12):3845-58. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27925124>

Napierala M, Mazela J, Merritt TA, and Florek E. Tobacco smoking and breastfeeding: Effect on the lactation process, breast milk composition and infant development. A critical review. *Environmental Research*, 2016; 151:321-38. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27522570>

Federico G, Gori M, Randazzo E, and Vierucci F. Skin advanced glycation end-products evaluation in infants according to the type of feeding and mother's smoking habits. *SAGE Open Med*, 2016; 4:2050312116682126. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28210490>

Calvaresi V, Escuder D, Minutillo A, Bastons-Compta A, Garcia-Algar O, et al. Transfer of nicotine, cotinine and caffeine into breast milk in a smoker mother consuming caffeinated drinks. *Journal of Analytical Toxicology*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27129353>

Shenassa ED, Wen X, and Braid S. Exposure to tobacco metabolites via breast milk and infant weight gain: A population-based study. *Journal of Human Lactation*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26644421>

Geraghty SR, McNamara K, Kwiek JJ, Rogers L, Klebanoff MA, et al. Tobacco metabolites and caffeine in human milk purchased via the internet. *Breastfeeding Medicine*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26394021>

Banderali G, Martelli A, Landi M, Moretti F, Betti F, et al. Short and long term health effects of parental tobacco smoking during pregnancy and lactation: A descriptive review. *Journal of Translational Medicine*, 2015; 13(1):327. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/26472248>

### *3.8.14 Health effects of parental smoking*

**Braback, L, Dharmage, SC, Lodge, C, Meister, K, & Forsberg, B. (2024). Sex Disparities in Asthma Related to Parental and Grandmaternal Smoking Habits-A Population-Based Register Study. *Clin Exp Allergy* Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39034306>**

Chen, J, Liu, X, Su, W, Liu, Z, Sun, G, Yang, Y et al. (2024). Unveiling the hidden risk: paternal smoking and alcohol exposure prior to conception as independent factors for allergic rhinitis in children. *Front Pediatr*, 12, 1394400. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/38873584>

Haervig, KK, Petersen, KU, Dornfeldt, MM, Bonde, JP, Hougaard, KS, Ramlau-Hansen, CH et al. (2023). Paternal pre-conceptional smoking and semen quality in the adult son. *Andrology*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37885366>

Stone, L. (2023). Family dynamics: fathers' smoking affects children's epigenetics. *Nat Rev Urol*, 20(11), 641. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37833502>

Altinel Acoglu, E, Aydin, B, Isiyel, E, Celik, M, & Yalcin, SS. (2023). Mother's psychopathological conditions and parenting characteristics according to smoke exposure. *Int J Environ Health Res*, 1-12. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37439642>

Horwitz, J, Wen, SW, Tan, H, Zhou, S, Ye, C, Shen, M, & Retnakaran, R. (2022). Analysis of Preconception Paternal Smoking and Neonatal Outcomes. *JAMA Netw Open*, 5(1), e2144527. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35061043>

- Hammer, B, Kadalayil, L, Boateng, E, Buschmann, D, Rezwan, FI, Wolff, M et al (2021). Preconceptional smoking alters spermatozoal miRNAs of murine fathers and affects offspring's body weight. *Int J Obes (Lond)*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34002034>
- Zhou, Q, Zhang, S, Wang, Q, Shen, H, Zhang, Y, Tian, W, & Li, X. (2020). Authors' reply re: Association between preconception paternal smoking and birth defects in offspring: evidence from the database of the National Free Preconception Health Examination Project in China. *BJOG*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32757251>
- Wang, W, & Duan, T. (2020). Stop smoking for the next generation. *BJOG*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32490562>
- Zhou, Q, Zhang, S, Wang, Q, Shen, H, Zhang, Y, Tian, W, & Li, X. (2020). Association between preconception paternal smoking and birth defects in offspring: Evidence from the database of the National Free Preconception Health Examination Project in China. *BJOG*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32339375>
- Haervig, KK, Hoyer, BB, Giwercman, A, Hougaard, KS, Ramlau-Hansen, CH, Specht, IO et al. (2020). Fetal exposure to paternal smoking and semen quality in the adult son. *Andrology*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32150347>
- Morkve Knudsen, GT, Rezwan, FI, Johannessen, A, Skulstad, SM, Bertelsen, RJ, Real, FG et al. (2020). Erratum: Epigenome-wide association of father's smoking with offspring DNA methylation: a hypothesis-generating study. *Environ Epigenet*, 6(1), dvz027. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32042449>
- Cao Y, Lu J, and Lu J. Paternal smoking before conception and during pregnancy is associated with an increased risk of childhood acute lymphoblastic leukemia: A systematic review and meta-analysis of 17 case-control studies. *Journal of Pediatric Hematology/Oncology*, 2020; 42(1):32-40. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31743318>
- Morkve Knudsen GT, Rezwan FI, Johannessen A, Skulstad SM, Bertelsen RJ, et al. Epigenome-wide association of father's smoking with offspring DNA methylation: A hypothesis-generating study. *Environ Epigenet*, 2019; 5(4):dvz023. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31827900>
- Wang L, Yang Y, Liu F, Yang A, Xu Q, et al. Paternal smoking and spontaneous abortion: A population-based retrospective cohort study among non-smoking women aged 20–49 years in rural china. *Journal of Epidemiology and Community Health*, 2018. Available from: <https://jech.bmj.com/content/early/2018/06/10/jech-2017-210311>
- Axelsson J, Sabra S, Rylander L, Rignell-Hydbom A, Lindh CH, et al. Association between paternal smoking at the time of pregnancy and the semen quality in sons. *PLoS ONE*, 2018; 13(11):e0207221. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30462692>
- Vallaster M, Kukreja S, Bing X, Ngolab J, Zhao-Shea R, et al. Paternal nicotine exposure alters hepatic xenobiotic metabolism in offspring. *Elife*, 2017; 6. Available from: <https://elifesciences.org/content/6/e24771>



<http://www.ncbi.nlm.nih.gov/pubmed/28196335>

Jenkins TG, James ER, Alonso DF, Hoidal JR, Murphy PJ, et al. Cigarette smoking significantly alters sperm DNA methylation patterns. *Andrology*, 2017; 5(6):1089-99. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/28950428>

Biederman J, Fitzgerald M, Spencer TJ, Bhide PG, McCarthy DM, et al. Is paternal smoking at conception a risk for adhd? A controlled study in youth with and without adhd. *Journal of Attention Disorders*, 2017:1087054717690809. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/28152645>

Beal MA, Yauk CL, and Marchetti F. From sperm to offspring: Assessing the heritable genetic consequences of paternal smoking and potential public health impacts. *Mutation Research*, 2017; 773:26-50. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28927533>

Bailey HD, Lacour B, Guerrini-Rousseau L, Bertozzi AI, Leblond P, et al. Parental smoking, maternal alcohol, coffee and tea consumption and the risk of childhood brain tumours: The estelle and escale studies (sfce, france). *Cancer Causes and Control*, 2017; 28(7):719-32. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/28477209>

Esakky P and Moley KH. Paternal smoking and germ cell death: A mechanistic link to the effects of cigarette smoke on spermatogenesis and possible long-term sequelae in offspring. *Molecular and Cellular Endocrinology*, 2016; 435:85-93. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/27424142>

Carslake D, Pinger PR, Romundstad P, and Davey Smith G. Early-onset paternal smoking and offspring adiposity: Further investigation of a potential intergenerational effect using the hunt study. *PLoS ONE*, 2016; 11(12):e0166952. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/27911909>

Orsi L, Rudant J, Ajrouche R, Leverger G, Baruchel A, et al. Parental smoking, maternal alcohol, coffee and tea consumption during pregnancy, and childhood acute leukemia: The estelle study. *Cancer Causes and Control*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25956268>

Kumar SB, Chawla B, Bisht S, Yadav RK, and Dada R. Tobacco use increases oxidative DNA damage in sperm - possible etiology of childhood cancer. *Asian Pacific Journal of Cancer Prevention*, 2015; 16(16):6967-72. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26514476>

Torjesen I. Experts criticise study suggesting that sons of men who smoked before puberty have more body fat. *BMJ (Clinical Research Ed.)*, 2014; 348:g2558. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/24700810>

Soubry A, Verbeke G, and Hoyo C. Do early paternal exposures to lifestyle factors such as smoking increase the risk of chronic diseases in the offspring? *European Journal of Human Genetics*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25293715>

Riedel C, Schonberger K, Yang S, Koshy G, Chen YC, et al. Parental smoking and childhood obesity: Higher effect estimates for maternal smoking in pregnancy compared with paternal smoking--a

meta-analysis. *International Journal of Epidemiology*, 2014; 43(5):1593-606. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/25080528>

Northstone K, Golding J, Davey Smith G, Miller LL, and Pembrey M. Prepubertal start of father's smoking and increased body fat in his sons: Further characterisation of paternal transgenerational responses. *European Journal of Human Genetics*, 2014; 22(12):1382-6. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/24690679>

### 3.8.15 Health effects of grandparents' smoking

**Sari, E, Moilanen, M, & Lindeboom, M. (2023). Role of grandparents in risky health behavior transmission: A study on smoking behavior in Norway. *Soc Sci Med*, 338, 116339. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39491392>**

**Braback, L, Dharmage, SC, Lodge, C, Meister, K, & Forsberg, B. (2024). Sex Disparities in Asthma Related to Parental and Grandmaternal Smoking Habits-A Population-Based Register Study. *Clin Exp Allergy* Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/39034306>**

Golding, J, Tunstall, H, Gregory, S, Granell, R, Dodd, JW, Iles-Caven, Y et al. (2023). A history of asthma may be associated with grandparents' exposures to stress and cigarette smoking. *Front Toxicol*, 5, 1253442. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/37808180>

Gregory, S, Suderman, M, Northstone, K, Pembrey, M, Watkins, S, Iles-Caven, Y, & Golding, J. (2022). Regular smoking of male ancestors in adolescence and fat mass in young adult grandchildren and great-grandchildren. *Wellcome Open Res*, 7, 184. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36320451>

Magalhaes, E, Lima, NP, Menezes, AMB, Goncalves, H, Wehrmeister, FC, Assuncao, MCF, & Horta, B L. (2023). Maternal smoking during pregnancy and birthweight on the third generation: results from two birth cohort studies. *Eur J Pediatr*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36813908>

Gregory, S, Suderman, M, Northstone, K, Pembrey, M, Watkins, S, Iles-Caven, Y, & Golding, J. (2022). Regular smoking of male ancestors in adolescence and fat mass in young adult grandchildren and great-grandchildren. *Wellcome Open Res*, 7, 184. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/36320451>

Golding, J, Pembrey, ME, Gregory, S, Suderman, M, Iles-Caven, Y, & Northstone, K. (2022). Paternal grandmother's smoking in pregnancy is associated with extreme aversion to bitter taste in their grandchildren. *Environ Epigenet*, 8(1), dvac003. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35299985>

Golding, J, Gregory, S, Northstone, K, Pembrey, M, Watkins, S, Iles-Caven, Y, & Suderman, M. (2022). Human transgenerational observations of regular smoking before puberty on fat mass in grandchildren and great-grandchildren. *Sci Rep*, 12(1), 1139. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/35064168>

Golding, J, Pembrey, M, Iles-Caven, Y, Watkins, S, Suderman, M, & Northstone, K. (2021). Ancestral smoking and developmental outcomes: A review of publications from a population birth cohort. *Biol Reprod*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34170302>

Rumrich, IK, Hanninen, O, Viluksela, M, & Vahakangas, K. (2021). Effect of Grandmaternal Smoking on Body Size and Proportions at Birth. *Int J Environ Res Public Health*, 18(9). Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/34067158>

Accordini, S, Calciano, L, Johannessen, A, Benediktsdottir, B, Bertelsen, RJ, Braback, L et al (2021). Prenatal and prepubertal exposures to tobacco smoke in men may cause lower lung function in future offspring: a three-generation study using a causal modelling approach. *European Respiratory Journal*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33795316>

Mahon, GM, Koppelman, GH, & Vonk, JM. (2021). Grandmaternal smoking, asthma and lung function in the offspring: the Lifelines cohort study. *Thorax*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/33542091>

Wu, JJY, Ng Yin, K, Lee, KS, & Zhang, JJY. (2020). Re: Association between preconception paternal smoking and birth defects in offspring: evidence from the database of the National Free Preconception Health Examination Project in China. *BJOG*. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/32741112>

Murphy, PJ, Guo, J, Jenkins, TG, James, ER, Hoidal, JR, Huecksteadt, T et al (2020). NRF2 loss recapitulates heritable impacts of paternal cigarette smoke exposure. *PLoS Genet*, 16(6), e1008756. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32520939>

Hall, A, Northstone, K, Iles-Caven, Y, Ellis, G, Gregory, S, Golding, J, & Pembrey, M. (2020). Intolerance of loud sounds in childhood: Is there an intergenerational association with grandmaternal smoking in pregnancy? *PLoS One*, 15(2), e0229323. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/32092095>

Williams C, Suderman M, Guggenheim JA, Ellis G, Gregory S, et al. Author correction: Grandmothers' smoking in pregnancy is associated with a reduced prevalence of early-onset myopia. *Sci Rep*, 2019; 9(1):19449. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31844120>

Williams C, Suderman M, Guggenheim JA, Ellis G, Gregory S, et al. Grandmothers' smoking in pregnancy is associated with a reduced prevalence of early-onset myopia. *Sci Rep*, 2019; 9(1):15413. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31659193>

Braback L, Olsson D, and Forsberg B. Grandmaternal smoking during pregnancy and asthma in grandchildren. *Journal of Allergy and Clinical Immunology*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31213286>

McCarthy DM, Morgan TJ, Jr., Lowe SE, Williamson MJ, Spencer TJ, et al. Nicotine exposure of male mice produces behavioral impairment in multiple generations of descendants. *PLoS Biology*, 2018; 16(10):e2006497. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30325916>

Lodge CJ, Braback L, Lowe AJ, Dharmage SC, Olsson D, et al. Grandmaternal smoking increases asthma risk in grandchildren: A nationwide Swedish cohort. *Clinical and Experimental Allergy*, 2018; 48(2):167-74. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28925522>

Hammer B, Wagner C, Divac Rankov A, Reuter S, Bartel S, et al. In utero exposure to cigarette smoke and effects across generations: A conference of animals on asthma. *Clinical and Experimental Allergy*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30244507>

Chambers SA, Rowa-Dewar N, Radley A, and Dobbie F. A systematic review of grandparents' influence on grandchildren's cancer risk factors. *PLoS ONE*, 2017; 12(11):e0185420. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29135979>

Camlin NJ, Jarnicki AG, Vanders RL, Walters KA, Hansbro PM, et al. Grandmaternal smoke exposure reduces female fertility in a murine model, with great-grandmaternal smoke exposure unlikely to have an effect. *Human Reproduction*, 2017; 32(6):1270-81. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28402417>

Smoking while pregnant puts future grandchildren at higher risk of asthma. *Nursing Standard*, 2015; 30(7):14. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26463778>

## News reports:

Rapaport L. Smoke exposure during pregnancy and infancy tied to hearing loss, in Reuters2018. Available from: <https://uk.reuters.com/article/us-health-infancy-hearing-smoke/smoke-exposure-during-pregnancy-and-infancy-tied-to-hearing-loss-idUKKBN1JO341>.

No authors listed. Smoking during pregnancy may lead to childhood eye condition, in Medical Xpress2018. Available from: <https://medicalxpress.com/news/2018-11-pregnancy-childhood-eye-condition.html>.

No authors listed. Smoking during pregnancy may lead to childhood eye condition, in Medical Xpress2018. Available from: <https://medicalxpress.com/news/2018-11-pregnancy-childhood-eye-condition.html>.

Preidt R. Smoking during pregnancy seems to alter fetal DNA, study finds, in Health Day 2016. Available from: <http://consumer.healthday.com/health-technology-information-18/dna-health-news-169/briefs-emb-3-31-12-00et-pregnancy-smoking-fetal-dna-ajhg-release-batch-2595-709411.html>.

Kennedy M. Combination of marijuana and tobacco in pregnancy may compound risks, in Reuters2016. Available from: <http://www.reuters.com/article/us-health-pregnancy-marijuana-tobacco-idUSKCN0YV2BN>.

Hartley-Parkinson R. Know someone who smokes during pregnancy? Show them this, in Metro2015 Available from: <http://metro.co.uk/2015/03/23/know-someone-who-smokes-during-pregnancy-show-them-this-5116395/>.

No authors listed. New research finds smoking and mother's genetics combine to increase likelihood of twins in Medical News Today 2015. Available from: <http://www.medicalnewstoday.com/releases/292643.php?tw>.

No authors listed. '4d' ultrasound shows effects of smoking on unborn babies in NHS Choices 2015. Available from: <http://www.nhs.uk/news/2015/03March/Pages/4D-ultrasound-studies-effects-of-smoking-on-unborn-babies.aspx>.

No authors listed. Female fetuses exposed to tobacco smoke may have increased diabetes risk in middle age, in Science Daily 2015. Available from: <http://www.sciencedaily.com/releases/2015/03/150308091406.htm>.

listed Na. Prenatal smoking exposure can potentially affect someone's health for years after birth, in News Medical 2015. Available from: <http://www.news-medical.net/news/20151123/Prenatal-smoking-exposure-can-potentially-affect-someones-health-for-years-after-birth.aspx>.

Knapton S. Unborn baby shown grimacing in womb as mother smokes The Telegraph, 2015. Available from: <http://www.telegraph.co.uk/news/science/science-news/11489538/Unborn-baby-shown-grimacing-in-womb-as-mother-smokes.html>

Buchanan RT. 4d ultrasound study shows harmful effects of smoking on unborn babies The Independent, 2015. Available from: <http://www.independent.co.uk/life-style/health-and-families/4d-ultrasound-study-shows-harmful-effects-of-smoking-on-unborn-babies-10128345.html>

Barns S. 4d ultrasound scans show the harmful effects of smoking during pregnancy on babies. Express, 2015. Available from: <http://www.express.co.uk/life-style/health/565738/Smoking-during-pregnancy-harmful-effects-babies-4D-ultrasound-scans>

### *3.8.1 Foetal growth and birthweight*

No authors listed. Moms who smoked as teens more likely to deliver smaller babies, in Medicine Net 2018. Available from: <https://www.medicinenet.com/script/main/art.asp?articlekey=214033>.

No authors listed. Cigarette damage to unborn children revealed in stem cell study, in Science Daily 2017. Available from: <https://www.sciencedaily.com/releases/2017/05/170530101702.htm>.

### *3.8.2 Perinatal and infant death*

Elliott, AJ, Kinney, HC, Haynes, RL, Dempers, JD, Wright, C, Fifer, WP et al. (2020). Concurrent prenatal drinking and smoking increases risk for SIDS: Safe Passage Study report. *EClinicalMedicine*.

No authors listed. Study shows increasing stillbirth risk of moms-to-be who smoke, drink, in MFA News 2018. Available from: <https://mfanews.net/study-shows-increasing-stillbirth-risk-of-moms-to-be-who-smoke-drink/>.

Allen V. Death rate of under fives in uk is among the worst in europe with british youngsters twice as likely to die as those living in sweden, in Daily Mail 2018. Available from:

<http://www.dailymail.co.uk/health/article-5689097/UK-5-death-rate-Europes-worst-youngsters-twice-likely-die-Swedish.html>.

### *3.8.2.1 Stillbirth*

### *3.8.2.2 Sudden infant death syndrome*

### *3.8.3 Birth defects*

### *3.8.4 Colic*

### *3.8.5 Respiratory health*

Preidt R. Smoking while pregnant could harm child's breathing in U.S. News2018. Available from: <https://health.usnews.com/health-care/articles/2018-03-27/smoking-while-pregnant-could-harm-childs-breathing>.

No authors listed. Mothers who smoke while pregnant contribute to the severity of asthma and poor lung function in their children in Alpha Galileo2018. Available from: <https://www.alphagalileo.org/ViewItem.aspx?ItemId=184213&CultureCode=en>.

No authors listed. Current tobacco smoke exposure doesn't obstruct peds airflow, in Medical Xpress2018. Available from: <https://medicalxpress.com/news/2018-03-current-tobacco-exposure-doesnt-obstruct.html>.

### *3.8.6 Childhood allergies and skin disease*

### *3.8.7 Neurodevelopment*

Weinstock CP. Cigarette smoking during pregnancy linked to adhd risk in offspring, in Reuters2017. Available from: <https://uk.reuters.com/article/us-health-pregnancy-smoking-adhd/cigarette-smoking-during-pregnancy-linked-to-adhd-risk-in-offspring-idUKKBN1EN1M9>.

Turan V. Nicotine exposure during and after pregnancy can cause hearing problems in children in EurekAlert!2017. Available from: [https://www.eurekalert.org/pub\\_releases/2017-02/tps-ned020717.php](https://www.eurekalert.org/pub_releases/2017-02/tps-ned020717.php).

Rapaport L. Smoking during pregnancy tied to eye damage in kids, in Reuters2017. Available from: <http://www.reuters.com/article/us-health-opticnerve-smoking-pregnancy-idUSKBN16F2L9>.

No authors listed. Smoking during pregnancy linked to cerebral palsy, animal studies show, in Medical Xpress2017. Available from: <https://medicalxpress.com/news/2017-10-pregnancy-linked-cerebral-palsy-animal.html>.

Whiteman H. Smoking while pregnant linked to schizophrenia in offspring, in Medical News Today 2016. Available from: <http://www.medicalnewstoday.com/articles/310501.php>.

listed Na. Effects of maternal smoking continue long after birth, in Medical News Today 2016. Available from: <http://www.medicalnewstoday.com/releases/310649.php>.

Dovey D. Smoking during pregnancy, nicotine exposure in utero linked to genetic changes that may increase risk of adhd, in Medical Daily 2016. Available from: <http://www.medicaldaily.com/adhd-smoking-during-pregnancy-nicotine-addiction-cigarettes-388277>.

### *3.8.8 Cardiovascular disease risk*

Thompson A. Heart disease may begin in the womb: The children of pregnant women with pre-eclampsia, gestational diabetes or a smoking habit are more at risk of the condition in later life, in Daily Mail Australia2019. Available from: <https://www.dailymail.co.uk/health/article-6620269/Heart-disease-begin-WOMB.html>.

No authors listed. Smoking while pregnant can make babies suffer a lifetime of being fat Express, 2017. Available from: <http://www.express.co.uk/life-style/health/858455/pregnant-smoking-babies-suffer-obesity>

No authors listed. Smoking in pregnancy and overweight may set up social divide in child obesity rates, in Medical News Today 2016. Available from: <http://www.medicalnewstoday.com/releases/310098.php>.

### *3.8.9 Vision problems*

### *3.8.10 Physical development*

No authors listed. Smokers more likely to have babies with teeth abnormalities, in Scoop2017. Available from: <http://www.scoop.co.nz/stories/SC1705/S00086/smokers-more-likely-to-have-babies-with-teeth-abnormalities.htm>.

No authors listed. Smoking while pregnant may compromise children's kidney function, in Medical News Today 2017. Available from: <http://www.medicalnewstoday.com/releases/314976.php>.

listed Na. Smoking in pregnancy 'affects boys' fitness in later life', in Medical Xpress2015. Available from: <http://medicalxpress.com/news/2015-12-pregnancy-affects-boys-life.html>

### *3.8.11 Puberty and fertility*

No authors listed. Mother's health linked to fetus's future fertility, in Tribune Content Agency2018. Available from: <https://tribunecontentagency.com/article/mothers-health-linked-to-fetuss-future-fertility/>.

Rapaport L. Smoking during pregnancy may hurt your chances for grandkids, in Reuters2016. Available from: <http://www.reuters.com/article/us-health-pregnancy-smoking-testicular-idUSKCN0ZV2NW>.

### *3.8.12 Nicotine dependence*

### *3.8.13 Breastfeeding and smoking*

Rapaport L. Drinking while breastfeeding tied to cognitive problems in young kids, in Reuters2018. Available from: <https://www.reuters.com/article/us-health-pregnancy-alcohol-cognition/drinking-while-breastfeeding-tied-to-cognitive-problems-in-young-kids-idUSKBN1KK2FU>.

#### *3.8.14 Health effects of parental smoking*

Wiener J. Paternal smoking linked to miscarriage risk, in Reuters2018. Available from: <https://www.reuters.com/article/us-health-pregnancy-smoking/paternal-smoking-linked-to-miscarriage-risk-idUSKBN1JN356>.

Leigh S. Parental smoking linked to genetic changes found in childhood cancer, in MedicalXpress2017. Available from: <https://medicalxpress.com/news/2017-04-parental-linked-genetic-childhood-cancer.html>.

Fessenden J. Umms epigenetics researcher oliver rando explores whether offspring inherit drug protection, in UMass Med Now 2017. Available from: <http://www.umassmed.edu/news/news-archives/2017/02/umms-epigenetics-researcher-oliver-rando-explorers-whether-offspring-inherit-drug-protection>.

#### *3.8.15 Health effects of grandparents' smoking*

Public Library of Science. Father's nicotine use can cause cognitive problems in children and grandchildren, in Medical Xpress2018. Available from: <https://medicalxpress.com/news/2018-10-father-nicotine-cognitive-problems-children.html>.