

Lice and Scabies

Selected References

- Bernigaud C, et al. 2020. The Management of Scabies in the 21 st Century: Past, Advances and Potentials. *Acta dermato-venereologica*, 100.
- Bowden VR. 2012. Losing the louse: how to manage this common infestation in children. *Pediatr Nurs*, 38(5):253- 254, 277.
- Chan R & Hoyt-Austin AE. 2024. Scabies Infection While Expressing Human Milk for Critically Ill Infants: Is It Safe?. *Breastfeeding medicine: the official journal of the Academy of Breastfeeding Medicine*, 19(4):306-308.
- Cole SW, et al. 2011. Spinosad for treatment of head lice infestation. *Pharmacother* 45.7-8: 954-959. *Clin Infect Dis.* (2002) 35 (Supplement 2): S146-S151.
- Dzierzawski A. 1977. Embryo-toxicity studies of lindane in the golden hamster, rat and rabbit. *Bull Vet Inst Pulawy*, 21:85-93.
- Gunning K, et al. 2019. Lice and Scabies: Treatment Update. *Am Fam Physician*, 99(10):635-642.
- Gupta P. 1990. Teratogenic effects of cypermethrin in rats. *J Environ Biol*, 11(2):121-126.
- Hale, T. 2006. *Medications and Mothers' Milk*. Amarillo, TX: Hale Publishing.
- Kennedy D, et al. 2005. Pregnancy outcome following exposure to permethrin and use of teratogen information. *Am J Perinatol*, 22(2):87-90.
- Khera K, et al. 1982. Teratogenicity study on pyrethrum and rotenone (natural origin) in pregnant rats. *J Toxicol Environ Health*, 10:111-119.
- Khera K, et al. 1978 Teratogenicity studies on linuron, malathion, and methoxychlor in rats. *Toxicol Appl Pharmacol*, 45:435-444.
- Leachman SA, et al. 2006. The use of dermatologic drugs in pregnancy and lactation. *Derm clin*, 24.2:167-197.
- Miyamoto J. 1976 Degradation, metabolism and toxicity of synthetic pyrethroids. *Environ Health Criter*, 14:15-28.
- Morand A, et al. 2024. Management of scabies in children under 15 kg and pregnant or breastfeeding women: recommendations supported by the Centre of Evidence of the French Society of Dermatology. *The British journal of dermatology*, 191(6):1014-1016.
- Murase JE, et al. 2014. Safety of dermatologic medications in pregnancy and lactation: Part I. Pregnancy. *J Amer Aca of Derm*, 70:401-e1.
- Mytton OT, et al. 2007. Safety of benzyl benzoate lotion and permethrin in pregnancy: a retrospective matched cohort study. *BJOG*, 114(5):582-587.
- Nicolas P, et al. 2020. Safety of oral ivermectin during pregnancy: a systematic review and meta-analysis. *Lancet Glob Health*, 8:e92-e100.
- Ogbuokiri J, et al. 1994. Ivermectin levels in human breast milk [letter]. *Eur J Clin Pharmacol*, 46:89-90.
- Pacque M, et al. 1990. Pregnancy outcome after inadvertent ivermectin treatment during community-based distribution. *The Lancet*, 336.8729:1486-1489.
- Patel VM, et al. 2016. Safety of topical medications for scabies and lice in pregnancy. *Ind J of Derm*, 61(6): 583.
- Porto I. 2003. Antiparasitic drugs & lactation: focus on anthelmintics, scabicides, & pediculosis. *J Hum Lact*, 19:421-5.
- Rosumeck S, et al. 2018. Ivermectin and permethrin for treating scabies. *Cochrane Database Syst Rev* 4
- Salavastru CM, et al. 2017. European guideline for the management of scabies. *J Eur Acad Dermatol Venereol JEADV*, 31:1248-1253.
- Sánchez-Díaz M, et al. 2024. European survey on the management of scabies by dermatologists in children under 2 months, pregnancy and breastfeeding woman. *Journal of the European Academy of Dermatology and Venereology*, 38(11):e950-e953.

- Sciammarella J. Scabies. Retrieved November 2014 from: <http://www.emedicine.com/EMERG/topic517.htm>.
- Strong M, et al. 2007. Interventions for treating scabies. Cochrane Database Syst Rev, 3.
- Sunderkötter C, et al. 2021. Scabies: Epidemiology, Diagnosis, and Treatment. Dtsch Arztebl Int, 118(41):695-704. PMID: 34615594 PMCID: PMC8743988 DOI: 10.3238/arztebl.m2021.0296
- The Centers for Disease Control and Prevention (CDC). 2019. Parasites –Lice – Treatment. [Accessed 4/2021]. Available at URL: <https://www.cdc.gov/parasites/lice/head/treatment.html>
- The Centers for Disease Control and Prevention (CDC). 2019. Parasites –Scabies -Medication. [Accessed 4/2021]. Available at URL: https://www.cdc.gov/parasites/scabies/health_professionals/meds.html
- The Centers for Disease Control and Prevention (CDC). 2010. Parasites–Scabies. Available at URL: <https://www.cdc.gov/parasites/scabies/index.html> [Accessed 5/2023].
- Weill A et al. 2021. Scabies-infested pregnant women: A critical therapeutic challenge. PLOS Neglected Trop Dis, 15.1: e0008929.

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Selected References:

- Abdullah K., et al. 2020. Effect of asthma exacerbation during pregnancy in women with asthma: A population-based cohort study. The European Respiratory Journal, 55(2), 1901335.
- Ali Z. 2017. Asthma and Pregnancy: Possible to prevent complications?- With Special reference to the impact of obesity and type of airway inflammation. Dan Med J. 64(12):B5428

- Bláfoss, J. et al. 2019. Female asthma and atopy – impact on fertility: A systematic review. *Journal of Asthma and Allergy*, 12, 205-211.
- Blais L, et al. 2010. Effect of maternal asthma on the risk of specific congenital malformations: A population-based cohort study. *Birth Defects Res A* 88(4):216-222.
- Bonham C, et al. 2018. Asthma Outcomes and Management During Pregnancy. *Chest*. 153(2):515-527.
- Chaumont M et al. 2019. Fourth generation e-cigarette vaping induces transient lung inflammation and gas exchange disturbances: results from two randomized clinical trials. *Am J Physiol Lung Cell Mol Physiol*. 2019 May 1; 316(5): L705-L719.
- Crowe H M, et al. 2020. Association of Asthma Diagnosis and Medication Use with Fecundability: A Prospective Cohort Study. *Clinical Epidemiology*, 12, 579-587.
- Davies G, et al. 2020. Medicines prescribed for asthma, discontinuation, and perinatal outcomes, including breastfeeding: A population cohort analysis. *PloS One*, 15(12), e0242489.
- Garne E, et al. 2015. Use of asthma medication during pregnancy and risk of specific congenital anomalies: A European case-malformed control study. *J Allergy Clin Immunol*. Jul 25. pii: S0091-6749(15)00837-4.
- Han V X, et al. 2021. Maternal acute and chronic inflammation in pregnancy is associated with common neurodevelopmental disorders: A systematic review. *Translational Psychiatry*, 11(1), 71.
- Howley M. M., et al., & National Birth Defects Prevention Study. 2020. Asthma Medication Use and Risk of Birth Defects: National Birth Defects Prevention Study, 1997-2011. *The Journal of Allergy and Clinical Immunology. In Practice*, 8(10), 3490-3499.e9.
- Jöud A, ET AL. 2022. Infertility, pregnancy loss and assisted reproduction in women with asthma: a population-based cohort study. *Hum Reprod* ;37(12):2932-2941.
- Kallen B, 2007. The safety of asthma medications during pregnancy. *Expert Opin Drug Saf* 6(1):15-26.
- Kwon HL, et al. 2006. The epidemiology of asthma during pregnancy: prevalence, diagnosis, and symptoms. *Immunol Allergy Clin North Am* 26(1):29-62.
- Liu X, et al. 2019. Parental asthma occurrence, exacerbations, and risk of attention-deficit/hyperactivity disorder. *Brain, Behavior, and Immunity*, 82, 302-308.
- Longo C, et al. 2020. Timing of Maternal Asthma Diagnosis in Relation to Adverse Perinatal Outcomes. *The Journal of Allergy and Clinical Immunology. In Practice*, 8(6), 1938-1946.e4.
- Mehta N, et al. 2015. Respiratory disease in pregnancy. *Best Pract Res Clin Obstet Gynaecol*. 29(5):598-611.
- Middleton P G, et al. 2020. ERS/TSANZ Task Force Statement on the management of reproduction and pregnancy in women with airways diseases. *European Respiratory Journal*, 55(2).
- Murphy VE, et al. 2005. Asthma during pregnancy: mechanisms and treatment implications. *Eur Respir* 25:731-750.
- Namazy JA, Schatz M. 2015. Pharmacotherapy options to treat asthma during pregnancy. *Expert Opin Pharmacother*;16(12):1783-91.
- National Asthma Education and Prevention Program. Working Group. 2004. Report on managing asthma during pregnancy: Recommendations for pharmacologic treatment. Update 2004. NIH publication NO.05-5236. Bethesda, MD: US Department of Health and Human Services; National Institutes of Health; National Heart, Lung, and Blood Institute.
- Rejnö G, et al. 2019. Maternal anxiety, depression and asthma and adverse pregnancy outcomes – a population based study. *Sci Rep*. Sep 11;9(1):13101. doi: 10.1038/s41598-019-49508-z
- Robijn AL, et al. 2019. Inhaled corticosteroid use during pregnancy among women with asthma: A systematic review and meta-analysis. *Clin Exp Allergy*. 2019 Jul 29. doi: 10.1111/cea.13474. [Epub ahead of print]
- Robijn AL, et al. 2020. Effect of maternal asthma exacerbations on perinatal outcomes: a population-based study. *ERJ open research*, 6(4).
- Robijn AL, et al. 2024. Adverse neonatal outcomes in pregnant women with asthma: An updated systematic review and meta-analysis. *Int J Gynaecol Obstet*, 166(2):596-606.
- Roff AJ, et al. 2024 Maternal asthma during pregnancy and risks of allergy and asthma in progeny: A systematic review and meta-analysis. *BJOG*.

- Schatz M, Dombrowski MP 2009. Clinical practice: Asthma in pregnancy. N Engl J Med 360(18):1862-1869.
- Tidemandsen C, et al. 2022. Asthma Is Associated With Pregnancy Loss and Recurrent Pregnancy Loss: A Nationwide Cohort Study. J Allergy Clin Immunol Pract. 10(9):2326-2332.e3.
- Vanders RL, Murphy VE. 2015. Maternal complications and the management of asthma in pregnancy. Womens Health (Lond Engl);11(2):183-91.
- Vejen Hansen, A, et al. 2019. Fertility treatment among women with asthma: A case-control study of 3689 women with live births. The European Respiratory Journal, 53(2), 1800597.
- Wang, M., et al. 2020. Maternal asthma and the risk of hypertensive disorders of pregnancy: A systematic review and meta-analysis of cohort studies. Hypertension in Pregnancy, 39(1), 12-24.
- Wasilewska E, & Małgorzewicz, S. 2019. Impact of allergic diseases on fertility. Postepy Dermatologii I Alergologii, 36(5), 507-512.
- Yland J J, et al. 2020. Perinatal Outcomes Associated with Maternal Asthma and Its Severity and Control During Pregnancy. The Journal of Allergy and Clinical Immunology: In Practice, 8(6), 1928-1937.e3.

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Selected References:

- Alwan S, et al. 2007. Use of selective serotonin-reuptake inhibitors in pregnancy and the risk of birth defects. N Engl J Med 356(26):2684-2692.
- Alwan S, Friedman JM, Chambers C: 2016. Safety of selective serotonin reuptake inhibitors in pregnancy: a review of current evidence. CNS Drugs 30(6):499-515.
- Andrade S, et al. 2009. Antidepressant use and risk of persistent pulmonary hypertension of the newborn.

Pharmacoevidenciol Drug Saf 18(3):246-252.

- Bakker MK, et al. 2010. First-trimester use of paroxetine and congenital heart defects: a population-based case-control study. *Birth Defects Res A Clin Mol Teratol* 88(2):94-100.
- Berard A, et al. 2016. The risk of major cardiac malformations associated with paroxetine use during the first trimester of pregnancy: A systematic review and meta-analysis. *Br J Clin Pharmacol*; 81(4):589-604.
- Berard A, et al. 2017. Antidepressant use during pregnancy and the risk of major congenital malformations in a cohort of depressed pregnant women: An updated analysis of the Quebec Pregnancy Cohort. *BMJ Open*;7:e013372.
- Biffi, A, et al. 2020. Use of antidepressants during pregnancy and neonatal outcomes: An umbrella review of meta-analyses of observational studies. *Journal of Psychiatric Research*, 124:99-108.
- Bonari L, et al. 2004. Perinatal risks of untreated depression during pregnancy. *Can J Psychiatry* 49(11):726-735.
- Chambers C, et al. 2006. Selective serotonin-reuptake inhibitors and risk of persistent pulmonary hypertension of the newborn. *N Engl J Med* 354(6):579-587.
- Costei A, et al. 2002. Perinatal outcome following third trimester exposure to paroxetine. *Arch Pediatr Adolesc Med* 156:1129-1132.
- Creeley, C. E., & Denton, L. K. 2019. Use of Prescribed Psychotropics during Pregnancy: A Systematic Review of Pregnancy, Neonatal, and Childhood Outcomes. *Brain Sciences*, 9(9)::235
- Den Besten-Bertholee D, et al. 2024. Sertraline, citalopram and paroxetine in lactation: passage into breastmilk and infant exposure. *Front Pharmacol*.15:1414677.
- Desauvay P, et al. 2023. Benefits and Risks of Antidepressant Drugs During Pregnancy: A Systematic Review of Meta-analyses. *Paediatr Drugs*. 25(3):247-265.
- De Vries, C., et al. 2020. A Systematic Review and Meta-Analysis Considering the Risk for Congenital Heart Defects of Antidepressant Classes and Individual Antidepressants. *Drug Safety*.
<https://doi.org/10.1007/s40264-020-01027>
- Diav-Citrin O, et al. 2008. Paroxetine and fluoxetine in pregnancy: a prospective, multicentre, controlled observational study. *Br J Clin Pharmacol* 66(5): 695-705.
- Einarson A, et al. 2008. Evaluation of the risk of congenital cardiovascular defects associated with use of paroxetine during pregnancy. *Am J Psychiatry* 165:1-5.
- Einarson A, et al. 2009. Rates of spontaneous and therapeutic abortions following use of antidepressants in pregnancy: results from a large prospective database. *J Obstet Gynaecol Can* 31:452-456.
- Fischer Fumeaux, CJ, et al. 2019. Risk-benefit balance assessment of SSRI antidepressant use during pregnancy and lactation based on best available evidence – an update. *Expert Opinion on Drug Safety*, 18(10):949-963.
- Fitton, CA, et al. 2020. In utero exposure to antidepressant medication and neonatal and child outcomes: a systematic review. *Acta Psychiatrica Scandinavica*, 141(1): 21-33.
- Gabriel M & Sharma V. 2017. Antidepressant discontinuation syndrome. *CMAJ*;189:E747.
- Galbally, M., et al. 2020. Antidepressant exposure in pregnancy and child sensorimotor and visuospatial development. *Journal of Psychiatric Research*;S0022-3956(20)31095-5.
- Gao S, et al. 2018. Selective serotonin reuptake inhibitor use during early pregnancy and congenital malformations: a systematic review and meta-analysis of cohort studies of more than 9 million births. *BMC Med*. 16:205.
- Grigoriadis S et al. 2013. Antidepressant exposure during pregnancy and congenital malformations: is there an association? A systematic review and meta-analysis of the best evidence. *J Clin Psychiatry*. 74(4):e293-308.
- Hansen CH, et al. 2017. The six most widely used selective serotonin reuptake inhibitors decrease androgens and increase estrogens in the H295R cell line. *Toxicol In Vitro*. 41:1-11
- Hendrick V, et al. 2001. Use of sertraline, paroxetine and fluvoxamine by nursing women. *Br J Psychiatry* 179:163-166
- Hernandez-Diaz S. 2007. Risk factors for persistent pulmonary hypertension of the newborn. *Pediatrics* 120 (2):e272-282.

- Jordan S, et al. 2016. Selective serotonin reuptake inhibitor (SSRI) in pregnancy and congenital anomalies: Analysis of linked databases in Wales, Norway and Funen, Denmark. *PLOS One*; 11(12): e0165122.
- Kallen B, et al. 2008. Maternal use of selective serotonin re-uptake inhibitors and persistent pulmonary hypertension of the newborn. *Pharmacoepidemiol Drug Saf* 17(8):801-806.
- Kieviet N, et al. 2015. Risk factors for poor neonatal adaptation after exposure to antidepressants in utero. *Acta Paediatr.* 104(4):384-91.
- Lebin LG, Novick AM. 2022. Selective Serotonin Reuptake Inhibitors (SSRIs) in Pregnancy: An Updated Review on Risks to Mother, Fetus, and Child. *Curr Psychiatry Rep*; 24, 687-695.
- Leerssen, E. C. M., et al. 2019. Severe transient neonatal long QT syndrome due to maternal paroxetine usage: a case report. *Cardiology in the Young*, 29(10), 1300-1301. <https://doi.org/10.1017/S1047951119001938>
- Levinson-Castiel R, et al. 2006. Neonatal abstinence syndrome after in utero exposure to selective serotonin reuptake inhibitors in term infants. *Arch Pediatr Adolesc Med* 160:173-176.
- Louik C, et al. 2007. First-trimester use of selective serotonin-reuptake inhibitors and the risk of birth defects. *N Engl J Med* 356(26):2675-2683.
- McDonagh MS, et al. 2014. Antidepressant treatment of depression during pregnancy and the postpartum period. Evidence report/technology assessment No. 216. (Prepared by the Pacific Northwest Evidence-based Practice Center under Contract No. 290-2007-10057-I.). Rockville, MD: Agency for Healthcare Research and Quality.
- Mesches, G. A., et al. 2020. A common clinical conundrum: Antidepressant treatment of depression in pregnant women. *Seminars in Perinatology*, 44(3), 151229. <https://doi.org/10.1016/j.semperi.2020.151229>
- Misri S, et al. 2000. Paroxetine levels in postpartum depressed women, breastmilk, and infant serum. *J Clin Psychiatry* 61(11):828-832.
- Molenaar, N. M., et al. 2018. Guidelines on treatment of perinatal depression with antidepressants: An international review. *The Australian and New Zealand Journal of Psychiatry*, 52(4), 320-327.
- Myles N, et al. 2013. Systematic meta-analysis of individual selective serotonin reuptake inhibitor medications and congenital malformations. *Aust N Z J Psychiatry*. 47(11):1002-12.
- Nakhai-Pour HR, et al. 2010. Use of antidepressants during pregnancy and the risk of spontaneous abortion. *CMAJ* 182(10):1031-1037.
- Nulman I, et al. 1997. Neurodevelopment of children exposed in utero to antidepressant drugs. *NEJM* 336(4):258-262.
- Nulman I, et al. 2012. Neurodevelopment of children following prenatal exposure to venlafaxine, selective serotonin reuptake inhibitors, or untreated maternal depression. *Am J Psychiatry*. 2012 169(11):1165-1174.
- Ornoy, A., & Koren, G. 2018. Selective serotonin reuptake inhibitor use in pregnant women; pharmacogenetics, drug-drug interactions and adverse effects. *Expert Opinion on Drug Metabolism & Toxicology*, 14(3), 247-259. <https://doi.org/10.1080/17425255.2018.1430139>
- Ornoy A, Koren G. 2014. Selective serotonin reuptake inhibitors in human pregnancy: On the way to resolving the controversy. *Semin Fetal Neonatal Med*. 19(3):188-194.
- Orsolini L, Bellantuono C. 2015. Serotonin reuptake inhibitors and breastfeeding: A systematic review. *Hum Psychopharmacol*. 30:4-20.
- Paxil Prescribing Information, 020936s047lbl.pdf. (n.d.). Retrieved January 7, 2021, from https://www.accessdata.fda.gov/drugsatfda_docs/label/2019/020936s047lbl.pdf
- Pogliani L, Baldelli S, Cattaneo D et al. Selective serotonin reuptake inhibitors passage into human milk of lactating women. *J Matern Fetal Neonatal Med*. 2018;1-11.
- Prady, S. L., et al. 2018. A systematic review of maternal antidepressant use in pregnancy and short- and long-term offspring's outcomes. *Archives of Women's Mental Health*, 21(2), 127-140.
- Raffi, E. R., et al. 2019. Safety of Psychotropic Medications During Pregnancy. *Clinics in Perinatology*, 46(2), 215-234.
- Sanz E, et al. 2005. Selective serotonin reuptake inhibitors in pregnant women and neonatal withdrawal syndrome: a database analysis. *Lancet* 365:482-487.

- Schoretsanitis G, et al. 2020. The impact of pregnancy on the pharmacokinetics of antidepressants: a systematic critical review and meta-analysis. *Expert Opin Drug Metab Toxicol.*16(5):431-440.
- Stowe Z, et al. 2000. Paroxetine in human breastmilk and nursing infants. *Am J Psychiatry* 157(2):185-189.
- Tanrikut, C., et al. 2010. Adverse effect of paroxetine on sperm. *Fertility and Sterility*, 94(3), 1021-1026.
- Tosounidou, S., & Gordon, C. 2020. Medications in pregnancy and breastfeeding. *Best Practice & Research. Clinical Obstetrics & Gynaecology*, 64, 68-76.
- Trifu, S. C., et al. 2020. Affective disorders: A question of continuing treatment during pregnancy (Review). *Experimental and Therapeutic Medicine*, 20(4), 3474-3482.
- Uguz, F. 2020. Selective serotonin reuptake inhibitors and the risk of congenital anomalies: a systematic review of current meta-analyses. *Expert Opinion on Drug Safety*, 19(12), 1595-1604.
- Uguz F, Arpacı N. 2016. Short-Term Safety of Paroxetine and Sertraline in Breastfed Infants: A Retrospective Cohort Study from a University Hospital. *Breastfeed Med.*11:487-9.
- Uguz F. 2019. Short-term safety of paroxetine plus low-dose mirtazapine during lactation. *Breastfeed Med.* 14(2):131-132.
- Wang S, et al. 2015. Selective Serotonin Reuptake Inhibitors (SSRIs) and the Risk of Congenital Heart Defects: A Meta-Analysis of Prospective Cohort Studies. *Journal of the American Heart Association.* 4(5).
- Weissman AM, et al. 2004. Pooled analysis of antidepressant levels in lactating mothers, breast milk, and nursing infants. *Am J Psychiatry* June; 161(6): 1066- 1078.
- Wichman CL, et al. 2009. Congenital heart disease associated with selective serotonin reuptake inhibitor use during pregnancy. *Mayo Clin Proc* 84(1):23- 27.
- Wurst K, et al. 2010. First trimester paroxetine use and the prevalence of congenital, specifically cardiac, defects: a meta-analysis of epidemiological studies. *Birth Defects Res A Clin Mol Teratol* 88(3):159-170
- Yardimci, A., et al. 2019. Effects of long-term paroxetine or bupropion treatment on puberty onset, reproductive and feeding parameters in adolescent male rats. *Andrologia*, 51(6), e13268.
- Zheng L, Yang H, Dallmann A. 2022. Antidepressants and Antipsychotics in Human Pregnancy: Transfer Across the Placenta and Opportunities for Modeling Studies. *J Clin Pharmacol.* 62 Suppl 1:S115-S128.

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Selected References:

- Barr DB, et al. 2010. Pesticide concentrations in maternal and umbilical cord sera and their relation to birth outcomes in a population of pregnant women and newborns in New Jersey. *Sci Total Environ*, 408(4):790-795.
- Centers for Disease Control and Prevention. 2022. Prevent Mosquito Bites. Available at URL: <https://www.cdc.gov/zika/prevention/prevent-mosquito-bites.html>.
- Hall JG, et al. 1975. Coarctation of the aorta in male cousins with similar maternal environmental exposure to insect repellent and insecticides. *Pediatrics* 55:425-427.
- Koren G, et al. 2003. DEET-based insect repellents: safety implications for children and pregnant and lactating women. *CMAJ*, 169(3):209-212.
- Kuhlmann RS, et al. 1981. N,N-diethyl-meta-toluamide: embryonic sensitivity. *Teratology*, 23:48a.
- McGready R, et al. 2001. Safety of the insect repellent N,N-diethyl-m-toluamide (DEET) in pregnancy. *Am J Trop Med Hyg*, 65:285-289.
- Özokan G et al. 2024. Comparison of the cytotoxicity and zebrafish embryo toxicity of insect repellent ingredients: p-Methane-3, 8-diol synthesized by green chemistry from *Eucalyptus citriodora* and N, N-diethyl-meta-toluamide. *Drug and Chemical Toxicology*, 47(6): 1193-1294.
- Schaefer C and Peters PW. 1992. Intrauterine diethyltoluamide exposure and fetal outcome. *Reprod Toxicol*, 6:175-176.
- Schoenig GP, et al. 1994. Teratologic evaluations of N,N-diethyl-m-toluamide (DEET) in rats and rabbits. *Fundam Appl Toxicol*, 23:63-69.
- Segal TR, et al. 2017. Urinary concentrations of 3-(diethylcarbamoyl)benzoic acid (DCBA), a major metabolite of N,N-diethyl-m-toluamide (DEET) and semen parameters among men attending a fertility center. *Hum Reprod*, 32(12): 2532-2539.
- Selim S, et al. 1995. Absorption and metabolism of DEET following dermal application to human volunteers. *Fundam Appl Toxicol*, 25:95-100.
- Snodgrass RL, et al. 1982. Dermal penetration and potential for placental transfer of the insect repellent, N,N-diethyl-m-toluamide. *Am Ind Hyg Assoc J*, 43:747-753.
- Sudakin DL, Trevathan WR. 2003. DEET: a review and update of safety and risk in the general population. *J Toxicol Clin Toxicol*. 41(6):831-9.
- United States Environmental Protection Agency (EPA). 2022. DEET. Available at URL: <https://www.epa.gov/insect-repellents/deet>.
- Wickerham EL, et al. 2012. Reduced birth weight in relation to pesticide mixtures detected in cord blood of full-term infants. *Environmental International*, 47:80-85.
- Wright DM, et al. 1992. Reproductive and developmental toxicity of N,N-diethyl-m-toluamide in rats. *Fundam Appl Toxicol*, 19:33-42.
- Wylie BJ, et al. 2016. Insect repellants during pregnancy in the era of the Zika virus. *Obstet Gynecol*, 128(5):1111-1115.

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Selected References:

- American College of Obstetricians and Gynecologists. 2013. ACOG committee opinion no. 558: Integrating immunizations into practice. *Obstet Gynecol* 121(4):897-903.
- Angelo MG, et al. 2014. Pooled analysis of large and long-term safety data from the human papillomavirus-16/18-AS04-adjuvanted vaccine clinical trial programme. *Pharmacoepidemiol Drug Saf*. 23(5):466-79.
- Baril L, et al. 2015. Risk of spontaneous abortion and other pregnancy outcomes in 15-25 year old women exposed to human papillomavirus-16/18 AS04-adjuvanted vaccine in the United Kingdom. *Vaccine* 33(48):6884-91.
- Bukowski AT, et al. 2020. Maternal and infant outcomes following exposure to quadrivalent human papillomavirus vaccine during pregnancy. *Vaccine*. 18;38(37):5933-5939.
- Centers for Disease Control and Prevention. 2025. Human Papillomavirus (HPV) Vaccine Safety. Available at <https://www.cdc.gov/vaccine-safety/vaccines/hpv.html>
- Chen W, et al. 2019. Safety of a quadrivalent human papillomavirus vaccine in a Phase 3, randomized, double-blind, placebo-controlled clinical trial among Chinese women during 90 months of follow-up. *Vaccine* 37(6):889-97.
- Dousti R, Allahqoli L, Ayar Kocaturk A, Hakimi S. 2023. Can human papillomavirus vaccination during pregnancy result in miscarriage and stillbirth? A meta-analysis and systematic review. *Eur J Midwifery*. 2023;7:9.
- Faber MT, et al 2019. Adverse pregnancy outcomes and infant mortality after quadrivalent HPV vaccination during pregnancy. *Vaccine* 37(2):265-271.
- Garland SM, et al. 2009. Pregnancy and infant outcomes in the clinical trials of a human papillomavirus type 6/11/16/18 vaccine: a combined analysis of five randomized controlled trials. *Obstet Gynecol* 114(6):1179-1188.
- Garolla A et. Al. 2013. Sperm viral infection and male infertility: focus on HBV, HCV, HIV, HPV, HSV, HCMV, and AAV. *J Reprod Immunol* 100(1):20-9.
- Goss MA, et al. 2015. Final report on exposure during pregnancy from a pregnancy registry for quadrivalent human papillomavirus vaccine. *Vaccine* 33(29): 3422-3428.
- Forbes N, Montroy J, Salvadori MI, Dubey V. 2024. Summary of the National Advisory Committee on

Immunization (NACI) Statement: Updated guidance on human papillomavirus (HPV) vaccines. *Can Commun Dis Rep.* 50(12):419-425.

- Kharbanda EO, et al. 2018. Risk of spontaneous abortion after inadvertent human papillomavirus vaccination in pregnancy. *Obstet Gynecol* 132:34-44.
- Kharbanda EO, et al. 2021. Association of Inadvertent 9-Valent Human Papillomavirus Vaccine in Pregnancy With Spontaneous Abortion and Adverse Birth Outcomes. *JAMA Netw Open* 4(4): e214340.
- Landazabal CS, et al. 2019. Safety of 9- valent human papillomavirus vaccine administration among pregnant women: Adverse event reports in the Vaccine Adverse Event Reporting System (VAERS), 2014-2017. *Vaccine* 37:1229-1234.
- Lawton B, et al. 2018. Association of prior HPV vaccinations with reduced preterm birth: a population based study. *Vaccine* 36: 134-140.
- Lipkind HS, et al. 2017. Maternal and infant outcomes after human papillomavirus vaccination in the periconceptional period or during pregnancy. *Obstet Gynecol*; 130(3):599-608.
- Mammas IN, et al. 2011. Can 'high-risk' human papillomaviruses (HPVs) be detected in human breast milk? *Acta Paediatr* 100(5):705-7.
- Markowitz LE, et al. 2007. Quadrivalent human papillomavirus vaccine: recommendations of the Advisory Committee on Immunization Practices (ACIP). *MMWR Recomm Rep* 56 (RR-2):1-24.
- Matys K, et al. 2012. Mother-infant transfer of anti-human papillomavirus (HPV) antibodies following vaccination with the quadrivalent HPV (type 6/11/16/18) virus-like particle vaccine. *Clin Vaccine Immunol* Jun; 19(6):881-5.
- McDonnold M, et al. 2014. High risk human papillomavirus at entry to prenatal care and risk of preeclampsia. *Am J Obstet Gynecol* 210(2):138.e1-5.
- Moreira ED, E et al. 2016. Safety profile of the 9-valent HPV vaccine: A combined analysis of 7 phase III clinical trials. *Pediatrics*. 138(2):e20154387.
- Muscianisi F, Foresta C, Garolla A. Role of HPV vaccination for prevention of male infertility. *Minerva Endocrinol (Torino)*. 2022 Mar;47(1):70-76.
- Panagiotou OA, et al. 2015. Effect of bivalent human papillomavirus vaccination on pregnancy outcomes: long term observational follow-up in the Costa Rica HPV Vaccine Trial. *BMJ* 7; 351:h4358.
- Segal L, et al. 2011. Evaluation of the intramuscular administration of Cervarix vaccine on fertility, pre- and post-natal development in rats. *Reprod Toxicol* 31(1):111-20.
- Scheller NM, et al. 2017. Quadrivalent HPV vaccination and the risk of adverse pregnancy outcomes. *N Engl J Med* 376:1223-1233.
- Wacholder S, et al. 2010. Risk of miscarriage with bivalent vaccine against human papillomavirus (HPV) types 16 and 18: pooled analysis of two randomized clinical trials. *BMJ* 340:C712.
- Wang A, et al. 2020. Pregnancy Outcomes After Human Papillomavirus Vaccination in Periconceptional Period or During Pregnancy: A Systematic Review and Meta-analysis. *Hum Vaccin Immunother.* 3;16(3):581-589.
- Wise LD, et al. 2008. Lack of effects on fertility and developmental toxicity of a quadrivalent HPV vaccine in Sprague-Dawley rats. *Birth Defects Res (B)* 83:561-572.
- Yan X, Li H, Song B, et al. 2023. Association of periconceptional or pregnancy exposure of HPV vaccination and adverse pregnancy outcomes: A systematic review and meta-analysis with trial sequential analysis. *Front Pharmacol.* 2023;14:1181919
- Zhang J, Lian Z, Xue X, et al. 2024. Does HPV vaccination during periconceptional or gestational period increase the risk of adverse pregnancy outcomes?-An updated systematic review and meta-analysis based on timing of vaccination. *Acta Obstet Gynecol Scand.* 103(10):1943-1954.

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