

Atopic Dermatitis

Selected References:

- Adam DN, et al. 2023. Expert consensus on the systemic treatment of atopic dermatitis in special populations. *J Eur Acad Dermatol Venereol*. 37(6):1135-1148.
- Balakirski G, et al. 2022. Atopic dermatitis and pregnancy. *J Allergy Clin Immunol*. 149(4):1185-1194.
- Hamann CR, et al. 2019. Pregnancy complications, treatment characteristics and birth outcomes in women with atopic dermatitis in Denmark. *J Eur Acad Dermatol Venereol*. Mar;33(3):577-587.
- Horev, A., Shalom, G., Weintraub, A. Y., Freud, T., & Cohen, A. D. 2022. Atopic Dermatitis and Infertility: A Nationwide Retrospective Cohort Study. *Dermatology (Basel, Switzerland)*, 238(2), 313-319.
- Kim J, et al. 2019. Pathophysiology of atopic dermatitis: Clinical implications. *Allergy Asthma Proc*. 40(2):84-92.
- Koutroulis I, et al. 2011. Atopic dermatitis in pregnancy: current status and challenges. *Obstet Gynecol Surv*. 66(10):654-663.
- Munera-Campos M, et al. 2024. Atopic Dermatitis: Fertility, Pregnancy, and Treatment Perspectives. *Am J Clin Dermatol*. 25(1):55-66.
- Napolitano M, et al. 2021. New emergent therapies for atopic dermatitis: A review of safety profile with respect to female fertility, pregnancy, and breastfeeding. *Dermatol Ther*. 34(1):e14475.
- Pfaller B, et al. 2020. Biologicals in atopic disease in pregnancy: an EAACI position paper. *Allergy*. 76(1):71-89.
- Ramos CL, et al. (2023). Monoclonal Antibodies (Biologics) for Allergic Rhinitis, Asthma, and Atopic Dermatitis During Pregnancy and Lactation. *Immunol Allergy Clin North Am*. 43(1):187-197.
- Schuler CF, et al. 2023. Novel insights into atopic dermatitis. *Allergy Clin Immunol*. 151(5):1145-1154.
- Silverberg J. I. 2018. Associations between atopic dermatitis and other disorders. *F1000Research*, 7, 303.
- Sroka-Tomaszewska J, et al. 2021. Molecular Mechanisms of Atopic Dermatitis Pathogenesis. *Int J Mol Sci*. 22(8):4130.
- Torres T, et al. 2019. Update on Atopic Dermatitis. *Acta Med Port*. 32(9):606-613.
- Vaughan Jones SA, et al. 1999. A prospective study of 200 women with dermatoses of pregnancy correlating the clinical findings with hormonal and immunopathological profiles. *Br J Dermatol*. 141:71-81.
- Vestergaard C, et al. 2019. European task force on atopic dermatitis position paper: treatment of parental atopic dermatitis during preconception, pregnancy and lactation period. *J Eur Acad Dermatol Venereol*. 33(9):1644-1659
- Wollenberg A. et al. 2022. European guideline (EuroGuiDerm) on atopic eczema – part II: non-systemic treatments and treatment recommendations for special AE patient populations. *J Eur Acad Dermatol Venereol*. 2022 Nov;36(11):1904-1926.

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Selected References:

- Achong N, et al. 2018. The physiological and glycaemic changes in breastfeeding women with type 1 diabetes mellitus. *Diabetes Res Clin Pract.* 135:93-101.
- American Diabetes Association. 2024. Management of diabetes in pregnancy: Standards of care in diabetes—2024. *Diabetes Care.* 47(Supplement_1):S282–S294.
- Ballesteros M, et al. 2024. Prematurity and congenital malformations differ according to the type of pregestational diabetes. *BMC Pregnancy Childbirth.* 24(1):335.
- Bhattacharyya A, et al. 2001. Insulin lispro and regular insulin in pregnancy. *QJM.* 94(5):255-260.
- Boinpally T and Jovanovic L. 2009. Management of Type 2 Diabetes and Gestational Diabetes in Pregnancy. *Mount Sinai Journal of medicine.* 76: 269-280.
- Bytoft B, et al. 2016. Long-term Cognitive Implications of Intrauterine Hyperglycemia in Adolescent Offspring of People With Type 1 Diabetes (the EPICOM Study). *Diabetes Care.* 39:1356.
- Brydon P, et al. 2000. Pregnancy outcome in people with type 2 diabetes mellitus needs to be addressed. *International Journal of Clinical Practice.* 54(7):418-419.
- Capobianco E, Pirrone I. 2023. Paternal programming of fetoplacental and offspring metabolic disorders. *Placenta.* 141:71-77.
- Chen K-R, et al. 2023. Childhood neurodevelopmental disorders and maternal diabetes: A population-based cohort study. *Dev Med Child Neurol.* 65:933-941
- Chen LJ, et al. 2023. Maternal diabetes mellitus and birth defects in Taiwan: A 5-year nationwide population-based cohort study. *J Chin Med Assoc.* 86(6):589-595.
- Coetzee EJ and Levitt NS. 2000. Maternal diabetes and neonatal outcome. *Seminars in Neonatology.* 5(3):221-229.
- Cyganek K, et al. 2017. Risk of macrosomia remains glucose-dependent in a cohort of people with pregestational type 1 diabetes and good glycemic control. *Endocrine.* 55(2):447-455.
- Durnwold, C. (2021). Patient education: Care during pregnancy for people with type 1 or 2 diabetes (Beyond the Basics). UpToDate.
- ElSayed NA, et al, on behalf of the American Diabetes Association. 2023. Management of Diabetes in Pregnancy: Standards of Care in Diabetes-2023. *Diabetes Care.* 46 (Suppl 1):S254-S266.
- Glatstein MM, et al. 2009. Use of hypoglycemic drugs during lactation. *Canadian Family Physician.* 55: 371-373.
- Hadden DR and McCance DR. 1999. Advances in management of type 1 diabetes and pregnancy. *Current Opinion in Obstetrics and Gynecology.* 11(6):557-562.
- Hagay Z & Reece EA. 1992. Diabetes mellitus in pregnancy and periconceptional genetic counseling. *American Journal of Perinatology.* 9(2):87-93.
- Jaffar F, et al. 2022. Type 1 Diabetes in Pregnancy: A Review of Complications and Management. *Curr Diabetes*

Rev. 18(7):e051121197761.

- Jangir RN, Jain GC. 2014. Diabetes mellitus induced impairment of male reproductive functions: a review. *Curr Diabetes Rev.* 10(3):147-57.
- Jovanovic L. 1999. Role of diet and insulin treatment of diabetes in pregnancy. *Clinical Obstetrics and Gynecology.* 43(1):46-55.
- Jovanovic L, et al. 2015. Trends in the incidence of diabetes, its clinical sequelae, and associated costs in pregnancy. *Diabetes Metab Res Rev.* 31(7):707-16.
- Kitzmiller JL, et al. 2010. Preconception care for people with diabetes and prevention of major congenital malformations. *Birth Defects Res A Clin Mol Teratol.* 88(10):791-803.
- La Vignera S, et al. 2015. Reproductive function in male patients w/ type 1 diabetes mellitus. *Andrology.* 3(6):1082-7.
- Landon MB. 2000. Obstetric management of pregnancies complicated by diabetes mellitus. *Clinical Obstetrics and Gynecology.* 43(1):65-74.
- Lemaitre M, et al. 2023. Pre-gestational diabetes and the risk of congenital heart defects in the offspring: A French nationwide study. *Diabetes Metab.* 49(4):101446.
- Mank E, et al. 2021. Insulin concentration in human milk in the first ten days postpartum: Course and associated factors. *J Pediatr Gastroenterol Nutr.* 73:e115-e119.
- Meek CL. 2023. An unwelcome inheritance: childhood obesity after diabetes in pregnancy. *Diabetologia.* 66:1961-1970.
- Miao S, Yang L. 2024. Association between diabetes mellitus and miscarriage, recurrent miscarriage: A meta-study. *J Obstet Gynaecol Res.* 50(11):2029-2037.
- Nagasawa M, et al. 2024. Maternal diabetes and risk of offspring congenital heart diseases: the Japan Environment and Children's Study. *Environ Health Prev Med.* 29:23.
- Nasri HZ et al. 2018. Malformations among infants of mothers with insulin-dependent diabetes: Is there a recognizable pattern of abnormalities? *Birth Defects Res.* 110(2):108-113.
- Owens LA, et al. 2015. Comparing type 1 and type 2 diabetes in pregnancy- similar conditions or is a separate approach required? *BMC Pregnancy Childbirth.* 15:69.
- Oyen N, et al. 2016. Prepregnancy Diabetes and Offspring Risk of Congenital Heart Disease: A Nationwide Cohort Study. *Circulation.* 133(23):2243-53.
- Pectasides M and Kalva S. 2011. Diabetes Revealed: Multisystem Danger. *American Journal of Roentgenology.* 196: 274-286.
- Reece EA and Homko CJ. 2000. Why do diabetic people deliver malformed infants? *Clinical Obstetrics and Gynecology.* 43(1):32-45.
- Ringholm L, et al. 2019. Improving pregnancy outcomes in women with diabetes mellitus: modern management. *Nat Rev Endocrinol.* 15(7):406-416.
- Ringholm L, et al. 2020. Diabetes Management During Breastfeeding in People with Type 1 Diabetes. *Current diabetes reports,* 20(8), 34.
- Rizzo TA, et al. 1995. Prenatal and perinatal influences on long-term psychomotor development in offspring of diabetic mothers. *Am J Obstet Gynecol.* 173:1753.
- Rotem RS, et al. 2024. Maternal periconception hyperglycemia, preconception diabetes, and risk of major congenital malformations in offspring. *Hum Reprod.* 39(12):2816-2829.
- Santos JDC, et al. 2023. Diabetes among women with preterm births: outcomes of a Brazilian multicenter study. *Einstein (Sao Paulo).* 21:eAO0515.
- Seah JM, et al. 2021 Risk factors for pregnancy outcomes in Type 1 and Type 2 diabetes. *Intern Med J.* 51(1):78-86.
- Sells CJ, et al. 1994. Long-term developmental follow-up of infants of diabetic mothers. *J Pediatr.* 125:S9.
- Sønnichsen-Dreehsen AS, et al. 2025. The association between paternal diabetes mellitus and successful pregnancy-Examined in a nationwide population undergoing reproductive treatment. *Andrology.* 13(3):485-493.
- Temple R and Murphy H. 2010. Type 2 diabetes in pregnancy-An increasing problem. *Best Practice and*

Research Clinical Endocrinology & Metabolism. 24: 591-603.

- Thorius, IH, et al. 2024. Glycemic control and risk of congenital malformations in women with type 1 diabetes. Obstetrics & Gynecology. 144(5):p 725-732.
- Turunen R, et al. 2024. Maternal diabetes and overweight and congenital heart defects in offspring. JAMA Netw Open. 7(1):e2350579.
- Yanit KE et al 2012. The impact of chronic hypertension and pregestational diabetes on pregnancy outcomes. Am J Obstet Gynecol. 207(4):333.e1-6.

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Selected References:

- Bro SP, et al. 2015. Adverse pregnancy outcomes after exposure to methylphenidate or atomoxetine during pregnancy. Clin Epidemiol; 7:139-47.
- Bröms G, et al. 2023. Atomoxetine in Early Pregnancy and the Prevalence of Major Congenital Malformations: A Multinational Study. J Clin Psychiatry 16, 84(1).
- Brown JT, et al. 2019. Clinical Pharmacogenetics Implementation Consortium Guideline for Cytochrome P450 (CYP)2D6 Genotype and Atomoxetine Therapy. Clin Pharmacol Ther; 106(1):94-102.
- Cohen JM, et al. 2017. Placental complications associated with psychostimulant use in pregnancy. Obstet Gynecol; 130(6):1192-201.
- Kallen B, et al. 2013. The Use of Central Nervous System Active Drugs During Pregnancy. Pharmaceuticals; 6(10):1221-86.
- Naguy A, et al. 2020. Atomoxetine in-focus! Asian J Psychiatr; 49:101634.
- Perugi G, et al. 2015. The use of stimulants and atomoxetine in adults with comorbid ADHD and bipolar disorder. Expert Opin Pharmacother.;16(14):2193-204.

- Strattera Product Label. 2022
<https://dailymed.nlm.nih.gov/dailymed/fda/fdaDrugXsl.cfm?setid=132852a6-5bff-15dd-255c-98309dd83630&type=display> [accessed Mar 2025].

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Atopic Dermatitis

Selected References:

- Bove R, et al. 2014. Management of multiple sclerosis during pregnancy and the reproductive years: a systematic review. *Obstet Gynecol.* 124:1157-68. PMID: 25415167
- Ciplea AI, et al. 2020. Safety of potential breast milk exposure to IFN-beta or glatiramer acetate: One-year infant outcomes. *Neurol Neuroimmunol Neuroinflamm.* 7(4) e757.
- Ciplea AI, et al. 2022. Eighteen-month safety analysis of offspring breastfed by mothers receiving glatiramer acetate therapy for relapsing multiple sclerosis – COBRA study. *Mult Scler.* 2022 Sep;28(10):1641-1650.
- Comi G. and Moiola L. 1997. Copolymer-1. *Baillieres Clin Neurol.* 6(3):495-509.
- Fragoso YD, et al. 2013. Long-term effects of exposure to disease-modifying drugs in the offspring of mothers with multiple sclerosis: a retrospective chart review. *CNS Drugs.* 27(11):955-61.
- Fragoso YD, et al. 2010. Long-term use of glatiramer acetate by 11 pregnant women with multiple sclerosis: a retrospective, multicentre case series. *CNS Drugs.* 24(11):969-76.
- Fragoso YD, et al. 2013. The effects of long-term exposure to disease-modifying drugs during pregnancy in multiple sclerosis. *Clin Neurol Neurosurg.* 115:154-9. PMID: 22633835
- Giannini M, et al. 2012. Pregnancy and fetal outcomes after glatiramer acetate exposure in patients with multiple sclerosis: a prospective observational multicentric study. *BMC neurology* 12.1, 124.
- Hellwig K, Gold R. 2011. Glatiramer acetate and interferon-beta throughout gestation and postpartum in women with multiple sclerosis. *J Neurol.* 258(3):502-3.

- Herbstritt S, et al. 2016. Glatiramer acetate during early pregnancy: a prospective cohort study. *Multiple Sclerosis Journal* 22.6: 810-816.
- Kaplan S, Dragut CF, Ghimpeteanu A. Pregnancy and fetal outcomes following paternal exposure to glatiramer acetate. *Curr Med Res Opin.* 2024 May;40(5):821-825.
- Kaplan, S., Zeygarnik, M. & Stern, T. 2022. Pregnancy, Fetal, and Infant Outcomes Following Maternal Exposure to Glatiramer Acetate During Pregnancy and Breastfeeding. *Drug Saf* 45, 345-357.
- Lopez-Leon S, et al. 2020. A systematic review and meta-analyses of pregnancy and fetal outcomes in women with multiple sclerosis: a contribution from the IMI2 ConcePTION project. *J Neurol.* 267(9):2721-2731.
- Lu E, et al. 2014. Birth outcomes in newborns fathered by men with multiple sclerosis exposed to disease-modifying drugs. *CNS Drugs* 28(5): 475-82.
- Sandberg-Wollheim M, et al. 2018. Pregnancy outcomes from the branded glatiramer acetate pregnancy database. *Int J MS Care.* 20:9-14.
- Weber-Schoendorfer C, et al. 2009. Multiple sclerosis, immunomodulators, and pregnancy outcome: a prospective observational study. *Multiple Sclerosis Journal* 15.9: 1037-1042.
- Varytė G, et al. 2021. Pregnancy and multiple sclerosis: an update. *Curr Opin Obstet Gynecol.* 33(5):378-383
- Ziemssen T, et al. 2001. Risk-benefit assessment of glatiramer acetate in multiple sclerosis. *Drug Safety;* 24:979-90.

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Selected References:

- AbuRaya B, Sadarangani M. 2018. Meningococcal vaccination in pregnancy. *Hum Vaccin Immunother* 14(4):1188-1196.
- Becerra-Culqui, T. A., et al. 2020. Safety of MenACWY-CRM vaccine exposure during pregnancy. *Vaccine*, 38(12),

2683–2690.

- Becerra-Culqui TA, et al. 2020. Safety of quadrivalent meningococcal conjugate vaccine in infants and toddlers 2 to 23-months old. *Vaccine* 38(2), 228-234.
- Becerra-Culqui TA, et al. 2021. Real-world evidence of quadrivalent meningococcal conjugate vaccine safety in the United States: a systematic review. *Hum Vaccin Immunother*, 17(5):1432-1441.
- Clark, D. R., et al. 2020. Influenza or Meningococcal Immunization During Pregnancy and Mortality in Women and Infants: A Pooled Analysis of Randomized Controlled Trials. *The Pediatric Infectious Disease Journal*, 39(7), 641–644.
- Crum-Cianflone, N., & Sullivan, E. 2016. Meningococcal Vaccinations. *Infectious Diseases and Therapy*, 5(2), 89–112.
- Findlow H, et al. 2019. Kinetics of maternally-derived serogroup A, C, Y and W-specific meningococcal immunoglobulin G in Malian women and infants. *Vaccine*, 37(18), 2477–2481.
- GlaxoSmithKline Biologicals SA. 2020. Menveo product labeling. <https://dailymed.nlm.nih.gov/dailymed/drugInfo.cfm?setid=2dc730d5-55fd-4e98-8c8a-daa7d8f872b0>. Accessed 16 May 2025.
- Letson GW, et al. 1998. Meningococcal vaccine in pregnancy: an assessment of infant risk. *Pediatr Infect Dis J* 17:261-263.
- Mbaeyi SA, et al. 2020. Meningococcal Vaccination: Recommendations of the Advisory Committee on Immunization Practices, United States, 2020. *MMWR Recommendations and Reports*, 69(9), 1–41.
- Myers TR, et al. 2020. Adverse events following quadrivalent meningococcal diphtheria toxoid conjugate vaccine (Menactra®) reported to the Vaccine Adverse Event Reporting System (VAERS), 2005–2016. *Vaccine*, 38(40), 6291–6298.
- Nasser R, et al. 2020. Are all vaccines safe for the pregnant traveler? A systematic review and meta-analysis. *Journal of Travel Medicine*, 27(2).
- National Center for Immunization and Respiratory Diseases. 2011. General recommendations on immunization — recommendations of the Advisory Committee on Immunization Practices (ACIP). *MMWR Recomm Rep*. 28;60(2):1-64. Erratum in: *MMWR Recomm Rep*; 60:993.
- Psarris A, et al. 2019. Immunizations during pregnancy: How, when and why. *European Journal of Obstetrics & Gynecology and Reproductive Biology*, 240, 29–35.
- The Centers for Disease Control and Prevention (CDC). <https://www.cdc.gov/vaccines/vpd/mening/index.html>. Accessed 16 May 2025.
- World Health Organization (WHO). 2015. Meningococcal A conjugate vaccine: updated guidance, February 2015. *Weekly epidemiological record*. No. 8, 90: 57-62.
- Zheteyeva Y, et al. 2013. Safety of meningococcal polysaccharide-protein conjugate vaccine in pregnancy: a review of the Vaccine Adverse Event Reporting System. *Am J Obstet Gynecol*.; 208(6):478.e1-6.

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