

Beta-Blockers

Selected References:

- Baard J, et al. 2020. The effect of beta-blockers on foetal birth weight in pregnancies in women with structural heart disease: a prospective cohort study. *Cardiovasc J Afr* 31(3):136-141.
- Bateman BT, et al. 2016. Late pregnancy β blocker exposure and risks of neonatal hypoglycemia and bradycardia. *Pediatrics* 138(3):e20160731.
- Davis RL, et al. 2011. Risks of congenital malformations and perinatal events among infants exposed to calcium channel and beta-blockers during pregnancy. *Pharmacoepidemiol Drug Saf* 20(2):138-45.
- Firoz T, et al. 2014. Oral antihypertensive therapy for severe hypertension in pregnancy and postpartum: a systematic review. *BJOG* 121(10):1210-8.
- Ruys TP, et al. 2014. Cardiac medication during pregnancy, data from the ROPAC. *Int J Cardiol* 177(1):124-8.
- Semczuk M. 1987. The effects of beta-adrenergic drugs on the human sperm motility in vitro. I. The effects of propranolol and isoprenaline. *Andrologia*. 19 Spec No:256-61.
- Tanaka K. 2016. Beta-blockers and fetal growth restriction in pregnant women with cardiovascular disease. *Circ J*. 80(10):2221-6.
- Wu Y. (2021). Risk of congenital malformations in offspring of women using β -blockers during early pregnancy: An updated meta-analysis of observational studies. *Br J Clin Pharmacol* 87(3):806-815.
- Xie RH, et al. 2014. Association between labetalol use for hypertension in pregnancy and adverse infant outcomes. *Eur J Obstet Gynecol Reprod Biol*. 175:124-8.
- Xie RH, et al. 2014. Beta-blockers increase the risk of being born small for gestational age or of being institutionalised during infancy. *BJOG* 121(9):1090-6.

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Selected References:

- Aporta RR, et al. 1998. Alglucerase enzyme replacement therapy used safely and effectively throughout the whole pregnancy of a Gaucher disease patient. *Haematologica*. 83:852-3.
- Amory, JK, et al. 2007. Miglustat has no apparent effect on spermatogenesis in normal men. *Human Reproduction*, **22**(3), 702-707.
- Dornelles AD, et al. 2014. Breastfeeding in Gaucher disease: is enzyme replacement therapy safe? *Clin Ther*.36:990-1.
- Elstein Y, et al. 2004. Pregnancies in Gaucher disease: a 5-year study. *Am J Obstet Gynecol*. 190(2):435-41.
- Elstein D et al. 2014. Outcome of pregnancies in women receiving velaglucerase alfa for Gaucher disease. *J Obstet Gynaecol Res*.40(4):968-975.
- Gary, Sam E. et al. Recent Advances in the Diagnosis and Management of Gaucher Disease. *Expert Review of Endocrinology & Metabolism*. 13(2): 107-18
- Giannubilo SR, et al. 2015. Replacement therapy for Gaucher disease during pregnancy: A case report. *J Reprod Infertil* 16(1): 53-57.
- Granovsky-Grisaru, S et al. 2011. The management of pregnancy in Gaucher disease. *Eur J Obstet Gynecol Reprod Biol*. 156: (1) 3-8.
- Komninaka V, et al. 2020. Outcomes of pregnancies in patients with Gaucher Disease: The experience of a center of excellence on rare metabolic Disease-Gaucher Disease, in Greece. *Eur J Obstet Gynecol Reprod Biol*. 254:181-187.
- Korkmazer E, et al. 2015. Pregnancy and lactation in a patient with Gaucher disease receiving enzyme replacement therapy: Case report. *Turkey J Clin Obstet Gynecol*. 25:224-6.
- Lau H, et al. 2018. Reported outcomes of 453 pregnancies in patients with Gaucher disease: An analysis from the Gaucher outcome survey. *Blood Cells Mol Dis*. 68:226-231.
- Mamopoulos A M et al. 2009. Gaucher disease and pregnancy. *J Obstet Gynaecol*. 29: 240-242.
- Murphy E. 2015. Pregnancy in women with inherited metabolic disease. *Obstet Med*. 8(2): 61-67.
- Paskulin L, et al. Breastfeeding in patients with Gaucher disease: Is taliglucerase alfa safe? *Molecular Genetics and Metabolism Reports*, **18**, 30-31.
- Rosenbaum H. 2015. Management of women with Gaucher disease in the reproductive age. *Thromb Res*. 135 Suppl 1:S49-51.
- Roy, A., et al. 2006. Shaping the sperm head: an ER enzyme leaves its mark. *Journal of Clinical Investigation*, 116(11), 2860-2863.
- Sekijima Y, et al. 2010. Successful pregnancy and lactation outcome in a patient with Gaucher disease receiving enzyme replacement therapy, and the subsequent distribution and excretion of Imiglucerase in human breast milk. *Clin Ther*. 32(12): 2048-2052.
- Sherer Y, et al. 2002. Successful suc outcome in a patient with Gaucher's disease and antiphospholipid syndrome. *Ann Hematol*. 81:161-3.
- Stirnemann J, et al. A Review of Gaucher Disease Pathophysiology, Clinical Presentation and Treatments. *International Journal of Molecular Sciences*, 18(2), 441.
- Weinreb, N. J. 2008. Imiglucerase and its use for the treatment of Gaucher's disease. *Expert Opinion on Pharmacotherapy*, 9(11), 1987-2000.
- Zimran A, et al. 2009. The female Gaucher patient: the impact of enzyme replacement therapy around key reproductive events. *Blood Cells Mol Dis*. 43:264-288.

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Selected References:

- Berle JO, et al. 2004. Breastfeeding during maternal antidepressant treatment with serotonin reuptake inhibitors: infant exposure, clinical symptoms, and cytochrome P450 genotypes. *J Clin Psychiatry* 65:1228-34. PMID: 15367050
- Brunel P, et al. 1994. [Follow-up of 151 pregnant women exposed to antidepressant treatment (MAOI excluded) during organogenesis.] *Therapie* 49:117-122.
- Eggermont E. 1973. Withdrawal symptoms in neonate associated with maternal imipramine therapy. *Lancet* 2:680.
- Misri S & Sivertz K. 1991. Tricyclic drugs in pregnancy and lactation: a preliminary report. *Int J Psychiatry Med* 21(2):157-71.
- Mitchell JE and Popkin MK: Antidepressant drug therapy and sexual dysfunction in men: a review. *J Clin Psychopharm* 3:76-79, 1983.
- Nulman I, et al. 1997. Neurodevelopment of children exposed in utero to antidepressant drugs. *N Engl J Med* 336:258-62.
- Overo KF, et al. 1997. Interaction of perphenazine with the kinetics of nortriptyline. *Acta Pharmacol Toxicol*; 40:97-105.
- Shearer WT, et al. 1972. Urinary retention in a neonate secondary to maternal ingestion of nortriptyline. *J Pediatr* 81:570-2.
- Schoretsanis S, 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.
- US Preventive Services Task Force, Curry SJ, et al. 2019. Interventions to Prevent Perinatal Depression: US Preventive Services Task Force Recommendation Statement. *JAMA* 321(6):580-587.
- Webster PA. 1973. Withdrawal symptoms in neonates associated with maternal antidepressant therapy. *Lancet* 2(7824):318-9.
- Weissman AM, et al. Pooled analysis of antidepressant levels in lactating mothers, breast milk, and nursing infants. *Am J Psychiatry* 161:1066-78. PMID: 15169695
- Wisner KL, et al. 2002. Postpartum depression. *N Engl J Med*. 347:194-9. PMID: 12124409.

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Selected References

- Alfaraj SH, et al. 2019. Middle east respiratory syndrome coronavirus (MERS-CoV) infection during pregnancy: report of two cases & review of the literature. *J Microbiol Immunol Infect* 52(3):501-503.
- Alserehi H, et al. 2016. Impact of middle east respiratory syndrome coronavirus (MERS-CoV) on pregnancy and perinatal outcome. *BMC Infect Dis* 16:105.
- Assiri A, et al. 2016. Middle east respiratory syndrome coronavirus infection during pregnancy: a report of 5 cases from Saudi Arabia. *Clin Infect Dis* 1;63(7):951-3.
- Centers for Disease Control and Prevention. 2020. 2019 Novel Coronavirus: Interim Guidance for Healthcare Professionals. Available at URL: <https://www.cdc.gov/coronavirus/2019-ncov/hcp/clinical-criteria.html>. [Accessed 1/2020].
- Centers for Disease Control and Prevention. 2020. Coronavirus: Prevention and Treatment. Available at URL: <https://www.cdc.gov/coronavirus/about/prevention.html>. [Accessed 1/2020].
- Centers for Disease Control and Prevention. 2019. Coronavirus: Symptoms and Diagnosis. Available at URL: <https://www.cdc.gov/coronavirus/about/symptoms.html>. [Accessed 1/2020].
- Centers for Disease Control and Prevention. 2019. Coronavirus: Transmission. Available at URL: <https://www.cdc.gov/coronavirus/about/transmission.html>. [Accessed 1/2020].
- Jeong SY, et al. 2017. MERS-CoV infection in a pregnant woman in Korea. *J Korean Med Sci* 32(10):1717-1720.
- Malik A, et al. 2013. Middle east respiratory syndrome coronavirus during pregnancy, Abu Dhabi, United Arab Emirates, 2013. *Emerg Infect Dis* 22(3):515-7.
- Payne DC, et al. 2014. Stillbirth during infection with middle east respiratory syndrome coronavirus. *J Infect Dis* 15;209(12):1870-2.
- Shek CC, et al. 2003. Infants born to mothers with severe acute respiratory syndrome. *Pediatrics* 112(4):e254.
- Wong SF, et al. 2004. Pregnancy and perinatal outcomes of women with severe acute respiratory syndrome. *Am J Obstet Gynecol* 191(1):292-7.

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Selected References

- Andrejko KL, et al. 2019. The safety of atovaquone-proguanil for the prevention and treatment of malaria in pregnancy: A systemic review. *Travel Med Infect Dis.* 27:20-26.
- 2020. Antimalarial recommendations. <https://wwwnc.cdc.gov/travel/yellowbook/2020/preparing-international-travelers/yellow-fever-vaccine-and-malaria-prophylaxis-information-by-country>
- 2018. Malaria and breastfeeding. <https://www.cdc.gov/breastfeeding/breastfeeding-special-circumstances/maternal-or-infant-illnesses/malaria.html>
- 2020. Pregnant Travelers. <https://wwwnc.cdc.gov/travel/yellowbook/2020/family-travel/pregnant-travelers>
- 2019. Treatment of malaria: Guidelines for Clinicians-Alternatives for pregnant women. https://www.cdc.gov/malaria/diagnosis_treatment/clinicians3.html
- 2011. Update: New Recommendations for Mefloquine Use in Pregnancy. https://www.cdc.gov/malaria/new_info/2011/mefloquine_pregnancy.html
- Edstein, M.D., et al. 1986. Excretion of chloroquine, dapsone and pyrimethamine in human milk. *Br J Clin Pharmacol.* 22(6):733-735.
- Edstein, M.D., et al. 1988. Excretion of mefloquine in human breast milk. *Chemotherapy.* 34(3):165-169.
- Fried M and Duffy PE. 2017. Malaria during pregnancy. *Cold Spring Harb Perspect Med.* 7(6):a025551.
- Gomes C, et al. 2016. Clinical and non-clinical safety of artemisinin derivatives in pregnancy. *Reprod Toxicol.* 65:194-203.
- Hart, C.W. and R.F. Naunton. 1964. The Ototoxicity of Chloroquine Phosphate. *Arch Otolaryngol.* 80:407-12.
- Moore KA, et al. 2017. Quantification of the association between malaria in pregnancy and stillbirth: a systemic review and meta-analysis. *Lancet Glob Health.* 5(11):e1101-e1112.
- Saito M, et al. 2018. Antimalarial drugs for treating and preventing malaria in pregnant and lactating women. *Expert Opin Drug Saf.* 17(11):1129-1144.
- Takem EN and D'Alessandro U. 2013. Malaria in pregnancy. *Mediterr J Hematol Infect Dis.* 5(1): e2013010.
- Ullberg, S., Lindquist, N.G. and Sjostrand, S.E. 1970. Accumulation of chorioretinotoxic drugs in the foetal eye. *Nature.* 227: 1257.

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