

Targeting Maternal Diet in the First 1,000 Days to Impact Outcomes

✦ Bibliography ✦

Adams JM, Valentine CJ, Karns RA, et al. DHA supplementation attenuates inflammation-associated gene expression in the mammary gland of lactating mothers who deliver preterm. *J Nutr.* 2022;152(6):1404-1414. doi:10.1093/jn/nxac043

Allen LH. Multiple micronutrients in pregnancy and lactation: an overview. *Am J Clin Nutr.* 2005;81(5):1206S-1212S. doi:10.1093/ajcn/81.5.1206

Belfort MB, Ramel SE. NICU diet, physical growth and nutrient accretion, and preterm infant brain development. *Neoreviews.* 2019;20(7):e385-e396. doi:10.1542/neo.20-7-e385

Brenna JT, Diau GY. The influence of dietary docosahexaenoic acid and arachidonic acid on central nervous system polyunsaturated fatty acid composition. *Prostaglandins Leukot Essent Fatty Acids.* 2007;77(5-6):247-50. doi:10.1016/j.plefa.2007.10.016

Carlson SE, Colombo J, Gajewski BJ, et al. DHA supplementation and pregnancy outcomes. *Am J Clin Nutr.* 2013;97(4):808-815. doi:10.3945/ajcn.112.050021

Carlson SE, Gajewski BJ, Valentine CJ, et al. Assessment of DHA on reducing early preterm birth: the ADORE randomized controlled trial protocol. *BMC Pregnancy Childbirth.* 2017;17(1):62. doi:10.1186/s12884-017-1244-1245

Carlson SE, Gajewski BJ, Valentine CJ, et al. Higher dose docosahexaenoic acid supplementation during pregnancy and early preterm birth: A randomised, double-blind, adaptive-design superiority trial. *EClinicalMedicine.* 2021;36:100905. doi:10.1016/j.eclinm.2021.100905

Christifano DN, Crawford SA, Lee G, et al. Docosahexaenoic acid (DHA) intake estimated from a 7-question survey identifies pregnancies most likely to benefit from high-dose DHA supplementation. *Clin Nutr ESPEN.* 2023 Feb;53:93-99. doi:10.1016/j.clnesp.2022.12.004

Ciesielski TH, Bartlett J, Williams SM. Omega-3 polyunsaturated fatty acid intake norms and preterm birth rate: a cross-sectional analysis of 184 countries. *BMJ Open.* 2019;9(4):e027249. doi:10.1136/bmjopen-2018-027249

Crawford SA, Christifano DN, Kerling EH, et al. Validation of an abbreviated food frequency questionnaire for estimating DHA intake of pregnant women in the United States. *Prostaglandins Leukot Essent Fatty Acids.* 2022;177:102398. doi:10.1016/j.plefa.2022.102398

Copp K, DeFranco EA, Kleiman J, Rogers LK, Morrow AL, Valentine CJ. Nutrition Support Team Guide to Maternal Diet for the Human-Milk-Fed Infant. *Nutr Clin Pract.* 2018 Oct;33(5):687-693. doi:10.1002/ncp.10071

Cusick SE, Georgieff MK. The role of nutrition in brain development: The golden opportunity of the "First 1000 Days". *J Pediatr.* 2016;175:16-21. doi:10.1016/j.jpeds.2016.05.013

Dubois J, Dehaene-Lambertz G, Kulikova S, Poupon C, Hüppi PS, Hertz-Pannier L. The early development of brain white matter: a review of imaging studies in fetuses, newborns and infants. *Neuroscience.* 2014;276:48-71. doi:10.1016/j.neuroscience.2013.12.044

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Georgieff MK, Ramel SE, Cusick SE. Nutritional influences on brain development. *Acta Paediatr.* 2018;107(8):1310-1321. doi:10.1111/apa.14287

Klebanoff MA, Harper M, Lai Y, et al. Fish consumption, erythrocyte fatty acids, and preterm birth. *Obstet Gynecol.* 2011;117(5):1071-1077. doi:10.1097/AOG.0b013e31821645dc

Koletzko B, Cetin I, Brenna JT; Perinatal Lipid Intake Working Group; Child Health Foundation; Diabetic Pregnancy Study Group; European Association of Perinatal Medicine; European Association of Perinatal Medicine; European Society for Clinical Nutrition and Metabolism; European Society for Paediatric Gastroenterology, Hepatology and Nutrition, Committee on Nutrition; International Federation of Placenta Associations; International Society for the Study of Fatty Acids and Lipids. Dietary fat intakes for pregnant and lactating women. *Br J Nutr.* 2007;98(5):873-7. doi:10.1017/S0007114507764747

Makrides M, Best K, Yelland L, et al. A randomized trial of prenatal n-3 fatty acid supplementation and preterm delivery. *N Engl J Med.* 2019;381(11):1035-1045. doi:10.1056/NEJMoa1816832

Makrides M, Gibson RA, McPhee AJ, Yelland L, Quinlivan J, Ryan P; DOMInO Investigative Team. Effect of DHA supplementation during pregnancy on maternal depression and neurodevelopment of young children: a randomized controlled trial. *JAMA.* 2010;304(15):1675-1683. doi:10.1001/jama.2010.1507

Middleton P, Gomersall JC, Gould JF, Shepherd E, Olsen SF, Makrides M. Omega-3 fatty acid addition during pregnancy. *Cochrane Database Syst Rev.* 2018;11(11):CD003402. doi:10.1002/14651858.CD003402.pub3

NIH Omega-3 Fatty Acids. Fact Sheet for Consumers. Last updated July 18, 2022. Available at <https://ods.od.nih.gov/factsheets/Omega3FattyAcids-Consumer/>

Olsen SF, Grandjean P, Weihe P, Viderø T. Frequency of seafood intake in pregnancy as a determinant of birth weight: evidence for a dose dependent relationship. *J Epidemiol Community Health.* 1993;47(6):436-440. doi:10.1136/jech.47.6.436

Olsen SF, Halldorsson TI, Thorne-Lyman AL, et al. Plasma concentrations of long chain N-3 fatty acids in early and mid-pregnancy and risk of early preterm birth. *EBioMedicine.* 2018;35:325-333. doi:10.1016/j.ebiom.2018.07.009 Erratum in: *EBioMedicine.* 2020;51:102619.

Olsen SF, Hansen HS, Sørensen TI, et al. Intake of marine fat, rich in (n-3)-polyunsaturated fatty acids, may increase birthweight by prolonging gestation. *Lancet.* 1986;2(8503):367-369. doi:10.1016/s0140-6736(86)90055-3

Olsen SF, Secher NJ. Low consumption of seafood in early pregnancy as a risk factor for preterm delivery: prospective cohort study. *BMJ.* 2002;324(7335):447. doi:10.1136/bmj.324.7335.447

Schwarzenberg SJ, Georgieff MK; COMMITTEE ON NUTRITION. Advocacy for Improving Nutrition in the First 1000 Days to Support Childhood Development and Adult Health. *Pediatrics.* 2018;141(2):e20173716. doi:10.1542/peds.2017-3716

Valentine CJ. Maternal dietary DHA supplementation to improve inflammatory outcomes in the preterm infant. *Adv Nutr.* 2012;3(3):370-376. doi:10.3945/an.111.001248

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Valentine CJ. Nutrition and the developing brain. *Pediatr Res*. 2020;87(2):190-191. doi:10.1038/s41390-019-0650-y

Valentine CJ, Dingess KA, Kleiman J, Morrow AL, Rogers LK. A randomized trial of maternal docosahexaenoic acid supplementation to reduce inflammation in extremely preterm infants. *J Pediatr Gastroenterol Nutr*. 2019;69(3):388-392. doi:10.1097/MPG.0000000000002375

Valentine CJ, Khan AQ, Brown AR, et al. Higher-dose DHA supplementation modulates immune responses in pregnancy and is associated with decreased preterm birth. *Nutrients*. 2021;13(12):4248. doi:10.3390/nu13124248

Valentine CJ, Wagner CL. Nutritional management of the breastfeeding dyad. *Pediatr Clin North Am*. 2013;60(1):261-274. doi:10.1016/j.pcl.2012.10.008

Vanek VW, Borum P...Valentine CJ, et al; Novel Nutrient Task Force, Parenteral Multi-Vitamin and Multi-Trace Element Working Group; American Society for Parenteral and Enteral Nutrition (A.S.P.E.N.) Board of Directors. A.S.P.E.N. position paper: recommendations for changes in commercially available parenteral multivitamin and multi-trace element products. *Nutr Clin Pract*. 2012;27(4):440-491. doi:10.1177/0884533612446706 Erratum in: *Nutr Clin Pract*. 2014;29(5):701. Dosage error in article text.

Victora CG, Adair L, Fall C, et al. Maternal and child undernutrition: consequences for adult health and human capital. *Lancet*. 2008;371(9609):340-357. doi:10.1016/S0140-6736(07)61692-4 Erratum in: *Lancet*. 2008;371(9609):302.



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