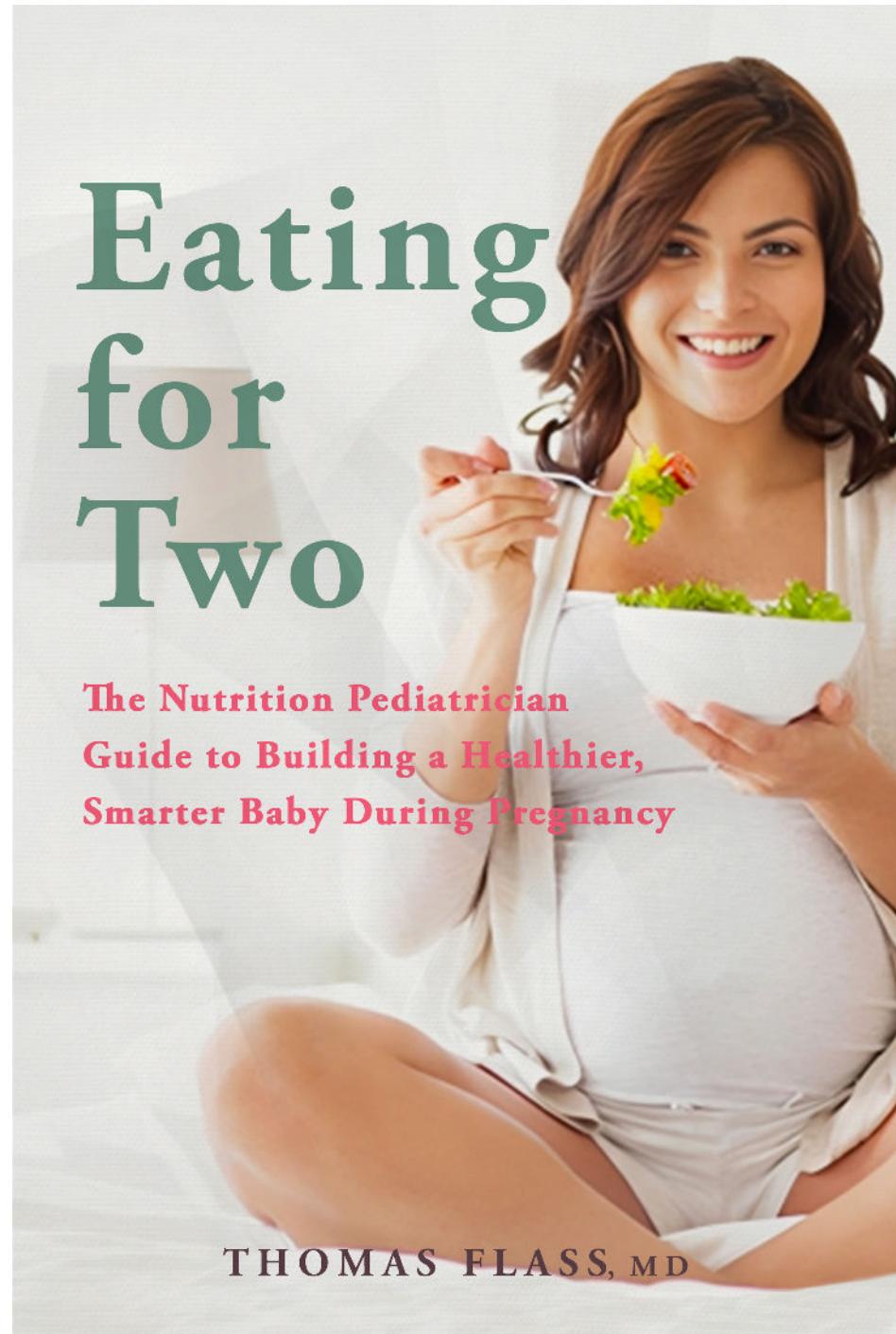


EATING FOR TWO – CHAPTER REFERENCES



EATING FOR TWO – CHAPTER REFERENCES

This is the accompanying PDF document to the book *Eating for Two*. This document contains the numbered endnote references that correspond to the superscripted citations in each chapter. It is meant for the reader that wishes to pursue a particular topic more fully, or to examine the evidence supporting one of the concepts explored in this book.

This bibliography was created using a popular reference manager, so minor errors in citations may exist that were not caught during the editing process. Please excuse any such errors, as they were unintentional.

This document may be updated periodically if new supportive literature is published. Any new references will be added onto the end of the bibliography for the related chapter, and will be highlighted as such.

Endnotes

Chapter 1- The First Thousand Days

1. Linnér A, Almgren M. Epigenetic programming—The important first 1000 days. *Acta Paediatr.* 2020;109(3):443-452. doi:10.1111/apa.15050
2. Cusick SE, Georgieff MK. The Role of Nutrition in Brain Development: The Golden Opportunity of the “First 1000 Days.” *J Pediatr.* 2016. doi:10.1016/j.jpeds.2016.05.013
3. Schwarzenberg SJ, Georgieff MK. Advocacy for improving nutrition in the first 1000 days to support childhood development and adult health. *Pediatrics.* 2018. doi:10.1542/peds.2017-3716
4. Barker DJP, Osmond C. Infant mortality, childhood nutrition, and ischaemic heart disease in England and Wales. *Lancet.* 1986. doi:10.1016/S0140-6736(86)91340-1
5. Barker D. The fetal and infant origins of adult disease The womb may be more important than the home. *Bmj.* 1990.
6. Waterland RA, Michels KB. Epigenetic epidemiology of the developmental origins hypothesis. *Annu Rev Nutr.* 2007. doi:10.1146/annurev.nutr.27.061406.093705
7. Smith CJ, Ryckman KK. Epigenetic and developmental influences on the risk of obesity, diabetes, and metabolic syndrome. *Diabetes, Metab Syndr Obes Targets Ther.* 2015. doi:10.2147/DMSO.S61296
8. Mameli C, Mazzantini S, Zuccotti GV. Nutrition in the first 1000 days: The origin of childhood obesity. *Int J Environ Res Public Health.* 2016. doi:10.3390/ijerph13090838
9. Indrio F, Martini S, Francavilla R, et al. Epigenetic matters: The link between early nutrition, microbiome, and long-term health development. *Front Pediatr.* 2017. doi:10.3389/fped.2017.00178
10. Tiffon C. The impact of nutrition and environmental epigenetics on human health and disease. *Int J Mol Sci.* 2018;19(11). doi:10.3390/ijms19113425
11. Balbus JM, Barouki R, Birnbaum LS, et al. Early-life prevention of non-communicable diseases. *Lancet.* 2013. doi:10.1016/S0140-6736(12)61609-2
12. Feinberg AP. The key role of epigenetics in human disease prevention and mitigation. *N Engl J Med.* 2018. doi:10.1056/NEJMra1402513
13. Langley-Evans SC. Nutrition in early life and the programming of adult disease: A review. *J Hum Nutr Diet.* 2015. doi:10.1111/jhn.12212
14. Jazwiec PA, Sloboda DM. Nutritional adversity, sex and reproduction: 30 years of DOHaD and what have we learned? *J Endocrinol.* 2019. doi:10.1530/JOE-19-0048
15. Velazquez MA, Fleming TP, Watkins AJ. Periconceptional environment and the developmental origins of disease. *J Endocrinol.* 2019. doi:10.1530/JOE-18-0676

EATING FOR TWO – CHAPTER REFERENCES

16. Franzago M, Fraticelli F, Stuppia L, Vitacolonna E. Nutrigenetics, epigenetics and gestational diabetes: consequences in mother and child. *Epigenetics*. 2019. doi:10.1080/15592294.2019.1582277
17. Vohr BR, Davis EP, Wanke CA, Krebs NF. Neurodevelopment: The impact of nutrition and inflammation during preconception and pregnancy in low-resource settings. *Pediatrics*. 2017. doi:10.1542/peds.2016-2828F
18. Warner BB. The contribution of the gut microbiome to neurodevelopment and neuropsychiatric disorders. *Pediatr Res*. 2019. doi:10.1038/s41390-018-0191-9
19. Dinan TG, Cryan JF. Gut instincts: microbiota as a key regulator of brain development, ageing and neurodegeneration. *J Physiol*. 2017;595(2):489-503. doi:10.1113/JP273106
20. Cryan JF, O’riordan KJ, Cowan CSM, et al. The microbiota-gut-brain axis. *Physiol Rev*. 2019. doi:10.1152/physrev.00018.2018
21. Poti JM, Braga B, Qin B. Ultra-processed Food Intake and Obesity: What Really Matters for Health-Processing or Nutrient Content? *Curr Obes Rep*. 2017;6(4):420-431. doi:10.1007/s13679-017-0285-4
22. Elizabeth L, Machado P, Zinöcker M, Baker P, Lawrence M. Ultra-processed foods and health outcomes: A narrative review. *Nutrients*. 2020. doi:10.3390/nu12071955
23. Kanherkar RR, Bhatia-Dey N, Csoka AB. Epigenetics across the human lifespan. *Front Cell Dev Biol*. 2014;2(SEP). doi:10.3389/fcell.2014.00049
24. Tiffon C. The impact of nutrition and environmental epigenetics on human health and disease. *Int J Mol Sci*. 2018. doi:10.3390/ijms19113425
25. Sales VM, Ferguson-Smith AC, Patti ME. Epigenetic Mechanisms of Transmission of Metabolic Disease across Generations. *Cell Metab*. 2017. doi:10.1016/j.cmet.2017.02.016
26. Yamada H, Munetsuna E, Ohashi K. Handbook of Nutrition, Diet, and Epigenetics. *Handb Nutr Diet, Epigenetics*. 2017:1-17. doi:10.1007/978-3-319-31143-2
27. Saad AF, Dickerson J, Kechichian TB, et al. High-fructose diet in pregnancy leads to fetal programming of hypertension, insulin resistance, and obesity in adult offspring. *Am J Obstet Gynecol*. 2016. doi:10.1016/j.ajog.2016.03.038
28. Regnault TR, Gentili S, Sarr O, Toop CR, Sloboda DM. Fructose, pregnancy and later life impacts. *Clin Exp Pharmacol Physiol*. 2013. doi:10.1111/1440-1681.12162
29. Bishop KS, Ferguson LR. The interaction between epigenetics, nutrition and the development of cancer. *Nutrients*. 2015. doi:10.3390/nu7020922
30. Cani PD. Human gut microbiome: Hopes, threats and promises. *Gut*. 2018. doi:10.1136/gutjnl-2018-316723
31. Slavin J. Fiber and prebiotics: Mechanisms and health benefits. *Nutrients*. 2013;5(4):1417-1435. doi:10.3390/nu5041417
32. Sook Lee E, Ji Song E, Do Nam Y. Dysbiosis of Gut Microbiome and Its Impact on Epigenetic Regulation. *J Clin Epigenetics*. 2017;03(02):1-7. doi:10.21767/2472-1158.100048

EATING FOR TWO – CHAPTER REFERENCES

33. Valdes AM, Walter J, Segal E, Spector TD. Role of the gut microbiota in nutrition and health. *BMJ*. 2018. doi:10.1136/bmj.k2179
34. Kho ZY, Lal SK. The human gut microbiome - A potential controller of wellness and disease. *Front Microbiol*. 2018. doi:10.3389/fmicb.2018.01835
35. Lloyd-Price J, Abu-Ali G, Huttenhower C. The healthy human microbiome. 2016. doi:10.1186/s13073-016-0307-y
36. Dominguez-Bello MG, Godoy-Vitorino F, Knight R, Blaser MJ. Role of the microbiome in human development. *Gut*. 2019. doi:10.1136/gutjnl-2018-317503
37. Thomas S, Izard J, Walsh E, et al. The host microbiome regulates and maintains human health: A primer and perspective for non-microbiologists. *Cancer Res*. 2017;77(8):1783-1812. doi:10.1158/0008-5472.CAN-16-2929
38. Payne MS, Bayatibojakhi S, Shen B. Exploring preterm birth as a polymicrobial disease: an overview of the uterine microbiome. 2014. doi:10.3389/fimmu.2014.00595
39. Stinson LF, Boyce MC, Payne MS, Keelan JA. The not-so-sterile womb: Evidence that the human fetus is exposed to bacteria prior to birth. *Front Microbiol*. 2019;10(JUN):1124. doi:10.3389/fmicb.2019.01124
40. Stinson L, Hallingström M, Barman M, et al. Comparison of Bacterial DNA Profiles in Mid-Trimester Amniotic Fluid Samples From Preterm and Term Deliveries. *Front Microbiol*. 2020;11:415. doi:10.3389/fmicb.2020.00415
41. Singh RK, Chang HW, Yan D, et al. Influence of diet on the gut microbiome and implications for human health. *J Transl Med*. 2017;15(1). doi:10.1186/s12967-017-1175-y
42. Arrieta MC, Stiensma LT, Amenyogbe N, Brown E, Finlay B. The intestinal microbiome in early life: Health and disease. *Front Immunol*. 2014;5(AUG). doi:10.3389/fimmu.2014.00427

Endnotes

Chapter 2- Protecting Our Healthy Gut Bacteria

1. Darabi B, Rahmati S, Hafeziahmadi MR, Badfar G, Azami M. The association between caesarean section and childhood asthma: an updated systematic review and meta-analysis. *Allergy Asthma Clin Immunol.* 2019;15:62. doi:10.1186/s13223-019-0367-9
2. Blustein J, Liu J. Time to consider the risks of caesarean delivery for long term child health. *BMJ.* 2015. doi:10.1136/bmj.h2410
3. Cardwell CR, Stene LC, Joner G, et al. Caesarean section is associated with an increased risk of childhood-onset type 1 diabetes mellitus: A meta-analysis of observational studies. *Diabetologia.* 2008;51(5):726-735. doi:10.1007/s00125-008-0941-z
4. Bager P, Simonsen J, Nielsen NM, Frisch M. Cesarean section and offspring's risk of inflammatory bowel disease: A national cohort study. *Inflamm Bowel Dis.* 2012. doi:10.1002/ibd.21805
5. Li H-T, Zhou Y-B, Liu J-M. The impact of cesarean section on offspring overweight and obesity: a systematic review and meta-analysis. *Int J Obes.* 2013;37:893-899. doi:10.1038/ijo.2012.195
6. Neu J, Rushing J. Cesarean Versus Vaginal Delivery: Long-term Infant Outcomes and the Hygiene Hypothesis. *Clin Perinatol.* 2011. doi:10.1016/j.clp.2011.03.008
7. Keag OE, Norman JE, Stock SJ. Long-term risks and benefits associated with cesarean delivery for mother, baby, and subsequent pregnancies: Systematic review and meta-analysis. *PLoS Med.* 2018. doi:10.1371/journal.pmed.1002494
8. Sandall J, Tribe RM, Avery L, et al. Short-term and long-term effects of caesarean section on the health of women and children. *Lancet.* 2018. doi:10.1016/S0140-6736(18)31930-5
9. Sevelsted A, Stokholm J, Bønnelykke K, Bisgaard H. Cesarean section chronic immune disorders. *Pediatrics.* 2015. doi:10.1542/peds.2014-0596
10. Sevelsted A, Stokholm J, Bisgaard H. Risk of Asthma from Cesarean Delivery Depends on Membrane Rupture. *J Pediatr.* 2016. doi:10.1016/j.jpeds.2015.12.066
11. Polidano C, Zhu A, Bornstein JC. The relation between cesarean birth and child cognitive development. *Sci Rep.* 2017. doi:10.1038/s41598-017-10831-y
12. Zhang T, Sidorchuk A, Sevilla-Cermeño L, et al. Association of Cesarean Delivery With Risk of Neurodevelopmental and Psychiatric Disorders in the Offspring: A Systematic Review and Meta-analysis. *JAMA Netw open.* 2019;2(8):e1910236. doi:10.1001/jamanetworkopen.2019.10236
13. Dominguez-Bello MG, Godoy-Vitorino F, Knight R, Blaser MJ. Role of the microbiome in human development. *Gut.* 2019. doi:10.1136/gutjnl-2018-317503
14. Mueller NT, Bakacs E, Combellick J, Grigoryan Z, Dominguez-Bello MG. The infant microbiome development: Mom matters. *Trends Mol Med.* 2015. doi:10.1016/j.molmed.2014.12.002
15. Moya-Pérez A, Luczynski P, Renes IB, et al. Intervention strategies for cesarean section- induced alterations in the microbiota-gut-brain axis. *Nutr Rev.* 2017. doi:10.1093/nutrit/nuw069

EATING FOR TWO – CHAPTER REFERENCES

16. Korpela K, Salonen A, Vepsäläinen O, et al. Probiotic supplementation restores normal microbiota composition and function in antibiotic-treated and in caesarean-born infants. *Microbiome*. 2018. doi:10.1186/s40168-018-0567-4
17. Dominguez-Bello MG, De Jesus-Laboy KM, Shen N, et al. Partial restoration of the microbiota of cesarean-born infants via vaginal microbial transfer. *Nat Med*. 2016. doi:10.1038/nm.4039
18. Dominguez-Bello MG. Gestational shaping of the maternal vaginal microbiome. *Nat Med*. 2019. doi:10.1038/s41591-019-0483-6
19. Janvier A, Malo J, Barrington KJ. Cohort study of probiotics in a North American neonatal intensive care unit. *J Pediatr*. 2014. doi:10.1016/j.jpeds.2013.11.025
20. Zhang GQ, Hu HJ, Liu CY, Shakya S, Li ZY. Probiotics for preventing late-onset sepsis in preterm neonates a PRISMA-compliant systematic review and meta-analysis of randomized controlled trials. *Med (United States)*. 2016. doi:10.1097/MD.0000000000002581
21. Thomas JP, Raine T, Reddy S, Belteki G. Probiotics for the prevention of necrotising enterocolitis in very low-birth-weight infants: a meta-analysis and systematic review. *Acta Paediatr Int J Paediatr*. 2017. doi:10.1111/apa.13902
22. Chang HY, Chen JH, Chang JH, Lin HC, Lin CY, Peng CC. Multiple strains probiotics appear to be the most effective probiotics in the prevention of necrotizing enterocolitis and mortality: An updated meta-analysis. *PLoS One*. 2017. doi:10.1371/journal.pone.0171579
23. Athalye-Jape G, Deshpande G, Rao S, Patole S. Benefits of probiotics on enteral nutrition in preterm neonates: A systematic review. *Am J Clin Nutr*. 2014. doi:10.3945/ajcn.114.092551
24. Sun J, Marwah G, Westgarth M, Buys N, Ellwood D, Gray PH. Effects of probiotics on necrotizing enterocolitis, sepsis, intraventricular hemorrhage, mortality, length of hospital stay, and weight gain in very preterm infants: A meta-analysis. *Adv Nutr*. 2017. doi:10.3945/an.116.014605
25. Lau CSM, Chamberlain RS. Probiotic administration can prevent necrotizing enterocolitis in preterm infants: A meta-analysis. *J Pediatr Surg*. 2015. doi:10.1016/j.jpedsurg.2015.05.008
26. Underwood MA. Probiotics and the prevention of necrotizing enterocolitis. *J Pediatr Surg*. 2019. doi:10.1016/j.jpedsurg.2018.08.055
27. Moossavi S, Miliku K, Sepehri S, Khafipour E, Azad MB. The prebiotic and probiotic properties of human milk: Implications for infant immune development and pediatric asthma. *Front Pediatr*. 2018. doi:10.3389/fped.2018.00197
28. van den Elsen LWJ, Garssen J, Burcelin R, Verhasselt V. Shaping the gut microbiota by breastfeeding: The gateway to allergy prevention? *Front Pediatr*. 2019. doi:10.3389/fped.2019.00047
29. Forbes JD, Azad MB, Vehling L, et al. Association of exposure to formula in the hospital and subsequent infant feeding practices with gut microbiota and risk of overweight in the first year of life. *JAMA Pediatr*. 2018. doi:10.1001/jamapediatrics.2018.1161
30. Mueller E, Blaser M. Breast milk, formula, the microbiome and overweight. *Nat Rev Endocrinol*. 2018. doi:10.1038/s41574-018-0066-5
31. O’Sullivan A, Farver M, Smilowitz JT. The Influence of early infant-feeding practices on the intestinal microbiome and body composition in infants. *Nutr Metab Insights*. 2015. doi:10.4137/NMI.S29530

32. David LA, Maurice CF, Carmody RN, et al. Diet rapidly and reproducibly alters the human gut microbiome. *Nature*. 2014. doi:10.1038/nature12820
33. Turnbaugh PJ, Ridaura VK, Faith JJ, Rey FE, Knight R, Gordon JI. The effect of diet on the human gut microbiome: A metagenomic analysis in humanized gnotobiotic mice. *Sci Transl Med*. 2009. doi:10.1126/scitranslmed.3000322
34. Lambertz J, Weiskirchen S, Landert S, Weiskirchen R. Fructose: A dietary sugar in crosstalk with microbiota contributing to the development and progression of non-alcoholic liver disease. *Front Immunol*. 2017. doi:10.3389/fimmu.2017.01159
35. Zinöcker MK, Lindseth IA. The western diet–microbiome–host interaction and its role in metabolic disease. *Nutrients*. 2018. doi:10.3390/nu10030365
36. Kronman MP, Zaoutis TE, Haynes K, Feng R, Coffin SE. Antibiotic exposure and IBD development among children: A population-based cohort study. *Pediatrics*. 2012. doi:10.1542/peds.2011-3886
37. Vangay P, Ward T, Gerber JS, Knights D. Cell Host & Microbe Perspective Antibiotics, Pediatric Dysbiosis, and Disease. *Cell Host Microbe*. 2015. doi:10.1016/j.chom.2015.04.006
38. Sultan AA, Mallen C, Muller S, et al. Antibiotic use and the risk of rheumatoid arthritis: A population-based case-control study. *BMC Med*. 2019;17(1). doi:10.1186/s12916-019-1394-6
39. Schulfer A, Blaser MJ. Risks of Antibiotic Exposures Early in Life on the Developing Microbiome. *PLoS Pathog*. 2015. doi:10.1371/journal.ppat.1004903
40. Shen NT, Maw A, Tmanova LL, et al. Timely Use of Probiotics in Hospitalized Adults Prevents Clostridium difficile Infection: A Systematic Review With Meta-Regression Analysis. *Gastroenterology*. 2017;152(8):1889-1900.e9. doi:10.1053/j.gastro.2017.02.003
41. Agyare C, Etsiapa Boamah V, Ngofi Zumbi C, Boateng Osei F. Antibiotic Use in Poultry Production and Its Effects on Bacterial Resistance. In: *Antimicrobial Resistance - A Global Threat*. IntechOpen; 2019. doi:10.5772/intechopen.79371
42. Riley LW, Raphael E, Faerstein E. Obesity in the United States - dysbiosis from exposure to low-dose antibiotics? *Front Public Heal*. 2013;1(DEC). doi:10.3389/fpubh.2013.00069
43. Liang Y, Zhan J, Liu D, et al. Organophosphorus pesticide chlorpyrifos intake promotes obesity and insulin resistance through impacting gut and gut microbiota. *Microbiome*. 2019. doi:10.1186/s40168-019-0635-4
44. Yuan X, Pan Z, Jin C, Ni Y, Fu Z, Jin Y. Gut microbiota: An underestimated and unintended recipient for pesticide-induced toxicity. *Chemosphere*. 2019;227:425-434. doi:10.1016/j.chemosphere.2019.04.088
45. Pistiner M, Gold DR, Abdulkerim H, Hoffman E, Celedón JC. Birth by cesarean section, allergic rhinitis, and allergic sensitization among children with a parental history of atopy. *J Allergy Clin Immunol*. 2008;122(2). doi:10.1016/j.jaci.2008.05.007
46. Brandão HV, Vieira GO, de Oliveira Vieira T, et al. Increased risk of allergic rhinitis among children delivered by cesarean section: A cross-sectional study nested in a birth cohort. *BMC Pediatr*. 2016;16(1). doi:10.1186/s12887-016-0594-x
47. Bager P, Wohlfahrt J, Westergaard T. Caesarean delivery and risk of atopy and allergic diseases: Meta-analyses. *Clin Exp Allergy*. 2008;38(4). doi:10.1111/j.1365-2222.2008.02939.x
48. Kuhle S, Tong OS, Woolcott CG. Association between caesarean section and childhood obesity: A

EATING FOR TWO – CHAPTER REFERENCES

- systematic review and meta-analysis. *Obes Rev.* 2015;16(4). doi:10.1111/obr.12267
49. Słabuszewska-Jóźwiak A, Szymański JK, Ciebiera M, Sarecka-Hujar B, Jakiel G. Pediatrics consequences of caesarean section—a systematic review and meta-analysis. *Int J Environ Res Public Health.* 2020;17(21). doi:10.3390/ijerph17218031
50. Mueller NT, Zhang M, Hoyo C, Østbye T, Benjamin-Neelon SE. Does cesarean delivery impact infant weight gain and adiposity over the first year of life? *Int J Obes.* 2019;43(8). doi:10.1038/s41366-018-0239-2

Endnotes

Chapter 3- Probiotic Bacteria and Pregnancy

1. 160. Yang S, Reid G, Challis JRG, Kim SO, Gloor GB, Bocking AD. Is there a role for probiotics in the prevention of preterm birth? *Front Immunol.* 2015. doi:10.3389/fimmu.2015.00062
161. Othman M, Neilson JP, Alfirevic Z. Probiotics for preventing preterm labour. *Cochrane Database Syst Rev.* 2007. doi:10.1002/14651858.CD005941.pub2
162. Brantsæter AL, Myhre R, Haugen M, et al. Intake of probiotic food and risk of preeclampsia in primiparous women. *Am J Epidemiol.* 2011. doi:10.1093/aje/kwr168
163. Vandevusse L, Hanson L, Safdar N. Perinatal outcomes of prenatal probiotic and prebiotic administration: An integrative review. *J Perinat Neonatal Nurs.* 2013. doi:10.1097/JPN.0b013e3182a1e15d
164. Baldassarre ME, Di Mauro A, Capozza M, et al. Dysbiosis and prematurity: Is there a role for probiotics? *Nutrients.* 2019;11(6). doi:10.3390/nu11061273
165. Ho M, Chang YY, Chang WC, et al. Oral Lactobacillus rhamnosus GR-1 and Lactobacillus reuteriRC-14 to reduce Group B Streptococcus colonization in pregnant women: A randomized controlled trial. *Taiwan J Obstet Gynecol.* 2016. doi:10.1016/j.tjog.2016.06.003
166. Martín V, Cárdenas N, Ocaña S, et al. Rectal and vaginal eradication of streptococcus agalactiae(Gbs) in pregnant women by using lactobacillus salivarius cect 9145, a target-specific probiotic strain. *Nutrients.* 2019. doi:10.3390/nu11040810
167. Mastromarino P, Capobianco D, Miccheli A, et al. Administration of a multistain probiotic product (VSL#3) to women in the perinatal period differentially affects breast milk beneficial microbiota in relation to mode of delivery. *Pharmacol Res.* 2015. doi:10.1016/j.phrs.2015.03.013
168. Moossavi S, Azad MB. Origins of human milk microbiota: new evidence and arising questions. *Gut Microbes.* 2020. doi:10.1080/19490976.2019.1667722
169. Moossavi S, Miliku K, Sepehri S, Khafipour E, Azad MB. The prebiotic and probiotic properties of human milk: Implications for infant immune development and pediatric asthma. *Front Pediatr.* 2018. doi:10.3389/fped.2018.00197
170. Zhang GQ, Hu HJ, Liu CY, Zhang Q, Shakya S, Li ZY. Probiotics for prevention of atopy and food hypersensitivity in early childhood A PRISMA-compliant systematic review and meta-analysis of randomized controlled trials. *Med (United States).* 2016. doi:10.1097/MD.0000000000002562
171. Zheng J, Feng Q, Zheng S, Xiao X. The effects of probiotics supplementation on metabolic health in pregnant women: An evidence based meta-analysis. *PLoS One.* 2018. doi:10.1371/journal.pone.0197771
172. Mueller NT, Bakacs E, Combellick J, Grigoryan Z, Dominguez-Bello MG. The infant microbiome development: Mom matters. *Trends Mol Med.* 2015. doi:10.1016/j.molmed.2014.12.002

Endnotes

Chapter 4- Nutrition Advice for the Expecting Mother

1. Schwarzenberg SJ, Georgieff MK. Advocacy for improving nutrition in the first 1000 days to support childhood development and adult health. *Pediatrics*. 2018. doi:10.1542/peds.2017-3716
2. Cusick SE, Georgieff MK. The Role of Nutrition in Brain Development: The Golden Opportunity of the “First 1000 Days.” *J Pediatr*. 2016. doi:10.1016/j.jpeds.2016.05.013
3. Linnér A, Almgren M. Epigenetic programming—The important first 1000 days. *Acta Paediatr*. 2020;109(3):443-452. doi:10.1111/apa.15050
4. Nasuti G, Blanchard C, Naylor P, et al. Comparison of the Dietary Intakes of New Parents, Second-Time Parents, and Nonparents: A Longitudinal Cohort Study. *J Acad Nutr Diet*. 2014;114(3):450-456. doi:10.1016/j.jand.2013.07.042
5. Crozier SR, Inskip HM, Godfrey KM, Robinson SM. Dietary patterns in pregnant women: A comparison of food-frequency questionnaires and 4d prospective diaries. *Br J Nutr*. 2008. doi:10.1017/S0007114507831746
6. Shaffer RM, Ferguson KK, Sheppard L, et al. Maternal urinary phthalate metabolites in relation to gestational diabetes and glucose intolerance during pregnancy. *Environ Int*. 2019. doi:10.1016/j.envint.2018.12.021
7. Zhang W, Xia W, Liu W, et al. Exposure to bisphenol A substitutes and gestational diabetes mellitus: A prospective cohort study in China. *Front Endocrinol (Lausanne)*. 2019. doi:10.3389/fendo.2019.00262
8. Mallozzi M, Bordi G, Garo C, Caserta D. The effect of maternal exposure to endocrine disrupting chemicals on fetal and neonatal development: A review on the major concerns. *Birth Defects Res Part C - Embryo Today Rev*. 2016. doi:10.1002/bdrc.21137
9. Grandjean P, Landrigan PJ. Neurobehavioural effects of developmental toxicity. *Lancet Neurol*. 2014. doi:10.1016/S1474-4422(13)70278-3
10. Grova N, Schroeder H, Olivier J, Turner JD. Review Article Epigenetic and Neurological Impairments Associated with Early Life Exposure to Persistent Organic Pollutants. 2019;2019. doi:10.1155/2019/2085496
11. Modabbernia A, Velthorst E, Reichenberg A. Environmental risk factors for autism: an evidence-based review of systematic reviews and meta-analyses. *Mol Autism*. 2017. doi:10.1186/s13229-017-0121-4
12. Modabbernia A, Arora M, Reichenberg A. Environmental exposure to metals, neurodevelopment, and psychosis. *Curr Opin Pediatr*. 2016. doi:10.1097/MOP.0000000000000332
13. Prado EL, Dewey KG. Nutrition and brain development in early life. *Nutr Rev*. 2014. doi:10.1111/nure.12102

EATING FOR TWO – CHAPTER REFERENCES

14. Burke RD, Todd SW, Lumsden E, et al. Developmental neurotoxicity of the organophosphorus insecticide chlorpyrifos: from clinical findings to preclinical models and potential mechanisms. *J Neurochem.* 2017;142:162-177. doi:10.1111/jnc.14077
15. Hertz-Pannier I, Sass JB, Engel S, et al. Organophosphate exposures during pregnancy and child neurodevelopment: Recommendations for essential policy reforms. *PLoS Med.* 2018;15(10):1-15. doi:10.1371/journal.pmed.1002671
16. Ye BS, Leung AOW, Wong MH. The association of environmental toxicants and autism spectrum disorders in children. *Environ Pollut.* 2017. doi:10.1016/j.envpol.2017.04.039
17. Mojtabai R, Olfson M, Han B. National trends in the prevalence and treatment of depression in adolescents and young adults. *Pediatrics.* 2016. doi:10.1542/peds.2016-1878
18. Oberlander TF, Miller AR. Antidepressant use in children and adolescents: Practice touch points to guide paediatricians. *Paediatr Child Health (Oxford).* 2011. doi:10.1093/pch/16.9.549
19. Zeisel SH, Niculescu MD. Perinatal choline influences brain structure and function. *Nutr Rev.* 2006. doi:10.1301/nr.2006.janr.197-203
20. Wallace TC, Blusztajn JK, Caudill MA, et al. The underconsumed and underappreciated essential nutrient. *Nutr Today.* 2018;53(6):240-253. doi:10.1097/NT.0000000000000302
21. Auerbach M, Georgieff MK. Guidelines for iron deficiency in pregnancy: hope abounds. *Br J Haematol.* 2020. doi:10.1111/bjh.16220
22. Auerbach M, Abernathy J, Juul S, Short V, Derman R. Prevalence of iron deficiency in first trimester, nonanemic pregnant women. *J Matern Neonatal Med.* 2019. doi:10.1080/14767058.2019.1619690
23. Juul SE, Derman RJ, Auerbach M. Perinatal Iron Deficiency: Implications for Mothers and Infants
Keywords Parenteral iron · Iron insufficiency · Iron deficiency. *Neonatology.* 2019. doi:10.1159/000495978
24. Govindappagari S, Burwick RM. Treatment of Iron Deficiency Anemia in Pregnancy With Intravenous Versus Oral Iron. *Obstet Gynecol.* 2018. doi:10.1097/01.aog.0000533298.46904.df
25. Radlowski EC, Johnson RW. Perinatal iron deficiency and neurocognitive development. *Front Hum Neurosci.* 2013. doi:10.3389/fnhum.2013.00585
26. Georgieff MK, Krebs NF, Cusick SE. The Benefits and Risks of Iron Supplementation in Pregnancy and Childhood. *Annu Rev Nutr.* 2019;39(1):121-146. doi:10.1146/annurev-nutr-082018-124213
27. Cusick SE, Georgieff MK, Rao R. Approaches for reducing the risk of early-life iron deficiency-induced brain dysfunction in children. *Nutrients.* 2018. doi:10.3390/nu10020227
28. McCall KA, Huang CC, Fierke CA. Function and mechanism of zinc metalloenzymes. In: *Journal of Nutrition.* ; 2000. doi:10.1093/jn/130.5.1437s
29. Caulfield LE, Zavaleta N, Shankar AH, Merialdi M. Potential contribution of maternal zinc supplementation during pregnancy to maternal and child survival... Zinc for child health. Proceedings of a symposium held in Baltimore, Maryland, November 17-19, 1996. *Am J Clin Nutr.* 1998.
30. Chaffee BW, King JC. Effect of zinc supplementation on pregnancy and infant outcomes: A systematic review. *Paediatr Perinat Epidemiol.* 2012. doi:10.1111/j.1365-3016.2012.01289.x

EATING FOR TWO – CHAPTER REFERENCES

31. Wang H, Hu YF, Hao JH, et al. Maternal zinc deficiency during pregnancy elevates the risks of fetal growth restriction: A population-based birth cohort study. *Sci Rep.* 2015. doi:10.1038/srep11262
32. Sauer AK, Grabrucker AM. Zinc Deficiency During Pregnancy Leads to Altered Microbiome and Elevated Inflammatory Markers in Mice. *Front Neurosci.* 2019;13. doi:10.3389/fnins.2019.01295
33. Shah D, Sachdev HPS. Zinc Deficiency in Pregnancy and Fetal Outcome. *Nutr Rev.* 2006. doi:10.1111/j.1753-4887.2006.tb00169.x
34. Brown KH, Rivera JA, Bhutta Z, et al. International Zinc Nutrition Consultative Group (IZiNCG) technical document #1. Assessment of the risk of zinc deficiency in populations and options for its control. *Food Nutr Bull.* 2004.
35. Hess SY, King JC. Effects of maternal zinc supplementation on pregnancy and lactation outcomes. *Food Nutr Bull.* 2009. doi:10.1177/15648265090301s105
36. Beach RS, Gershwin ME, Hurley LS. Gestational zinc deprivation in mice: Persistence of immunodeficiency for three generations. *Science (80-).* 1982;218(4571):469-471. doi:10.1126/science.7123244
37. Farrell. Proton Pump Inhibitors Interfere With Zinc Absorption and Zinc Body Stores. *Gastroenterol Res.* 2011. doi:10.4021/gr379w
38. Sturniolo GC, Montino MC, Rossetto L, et al. Inhibition of gastric acid secretion reduces zinc absorption in man. *J Am Coll Nutr.* 1991.
39. Krebs NF. Update on zinc deficiency and excess in clinical pediatric practice. *Ann Nutr Metab.* 2013. doi:10.1159/000348261
40. Hambidge KM, Miller L V., Westcott JE, Sheng X, Krebs NF. Zinc bioavailability and homeostasis. *Am J Clin Nutr.* 2010. doi:10.3945/ajcn.2010.28674I
41. Maares M, Haase H. A guide to human zinc absorption: General overview and recent advances of in vitro intestinal models. *Nutrients.* 2020. doi:10.3390/nu12030762
42. Wegmüller R, Tay F, Zeder C, Brnić M, Hurrell RF. Zinc absorption by young adults from supplemental zinc citrate is comparable with that from zinc gluconate and higher than from zinc oxide. *J Nutr.* 2014. doi:10.3945/jn.113.181487
43. Hacker AN, Fung EB, King JC. Role of calcium during pregnancy: Maternal and fetal needs. *Nutr Rev.* 2012. doi:10.1111/j.1753-4887.2012.00491.x
44. Willemse JPMM, Meertens LJE, Scheepers HCJ, et al. Calcium intake from diet and supplement use during early pregnancy: the Expect study I. *Eur J Nutr.* 2020. doi:10.1007/s00394-019-01896-8
45. Organisation WH. WHO | Calcium supplementation in pregnant women. *WHO | Calcium Suppl pregnant women.* 2013.
46. Hofmeyr GJ, Lawrie TA, Atallah ÁN, Torloni MR. Calcium supplementation during pregnancy for preventing hypertensive disorders and related problems. *Cochrane Database Syst Rev.* 2018. doi:10.1002/14651858.CD001059.pub5

47. Meertens LJE, Scheepers HCJ, Willemse JPMM, Spaanderman MEA, Smits LJM. Should women be advised to use calcium supplements during pregnancy? A decision analysis. *Matern Child Nutr.* 2018. doi:10.1111/mcn.12479
48. Hallberg L. Does calcium interfere with iron absorption? *Am J Clin Nutr.* 1998. doi:10.1093/ajcn/68.1.3
49. Hallberg L, Brune M, Erlandsson M, Sandberg AS, Rossander-Hulten L. Calcium: Effect of different amounts of nonheme- and heme-iron absorption in humans. *Am J Clin Nutr.* 1991. doi:10.1093/ajcn/53.1.112
50. Cook JD, Dassenko SA, Whittaker P. Calcium supplementation: Effect on iron absorption. *Am J Clin Nutr.* 1991. doi:10.1093/ajcn/53.1.106
51. Lynch SR. The effect of calcium on iron absorption. *Nutr Res Rev.* 2000. doi:10.1079/095442200108729043
52. Rosanoff A, Weaver CM, Rude RK. Suboptimal magnesium status in the United States: Are the health consequences underestimated? *Nutr Rev.* 2012. doi:10.1111/j.1753-4887.2011.00465.x
53. Volpe SL. Magnesium in disease prevention and overall health. *Adv Nutr.* 2013. doi:10.3945/an.112.003483
54. Fiorentini D, Cappadone C, Farruggia G, Prata C. Magnesium: Biochemistry, nutrition, detection, and social impact of diseases linked to its deficiency. *Nutrients.* 2021. doi:10.3390/nu13041136
55. Dalton LM, Ní Fhloinn DM, Gaydadzhieva GT, Mazurkiewicz OM, Leeson H, Wright CP. Magnesium in pregnancy. *Nutr Rev.* 2016. doi:10.1093/nutrit/nuw018
56. Fanni D, Gerosa C, Nurchi VM, et al. The Role of Magnesium in Pregnancy and in Fetal Programming of Adult Diseases. *Biol Trace Elem Res.* 2020. doi:10.1007/s12011-020-02513-0
57. Brown B, Wright C. Safety and efficacy of supplements in pregnancy. *Nutr Rev.* 2020. doi:10.1093/nutrit/nuz101
58. Takaya J, Kaneko K. Small for gestational age and magnesium in cord blood platelets: intrauterine magnesium deficiency may induce metabolic syndrome in later life. *J Pregnancy.* 2011. doi:10.1155/2011/270474
59. Maktabi M, Jamilian M, Amirani E, Chamani M, Asemi Z. The effects of magnesium and vitamin e co-supplementation on parameters of glucose homeostasis and lipid profiles in patients with gestational diabetes. *Lipids Health Dis.* 2018. doi:10.1186/s12944-018-0814-5
60. Guerrero-Romero F, Simental-Mendía LE, Hernández-Ronquillo G, Rodriguez-Morán M. Oral magnesium supplementation improves glycaemic status in subjects with prediabetes and hypomagnesaemia: A double-blind placebo-controlled randomized trial. *Diabetes Metab.* 2015. doi:10.1016/j.diabet.2015.03.010
61. Guerrero-Romero F, Rodríguez-Morán M. Magnesium improves the beta-cell function to compensate variation of insulin sensitivity: Double-blind, randomized clinical trial. *Eur J Clin Invest.* 2011. doi:10.1111/j.1365-2362.2010.02422.x

EATING FOR TWO – CHAPTER REFERENCES

62. Guerrero-Romero F, Jaquez-Chairez FO, Rodríguez-Morán M. Magnesium in metabolic syndrome: A review based on randomized, double-blind clinical trials. *Magnes Res.* 2016. doi:10.1684/mrh.2016.0404
63. Mooren FC, Krüger K, Völker K, Golf SW, Wadepuhl M, Kraus A. Oral magnesium supplementation reduces insulin resistance in non-diabetic subjects - a double-blind, placebo-controlled, randomized trial. *Diabetes, Obes Metab.* 2011. doi:10.1111/j.1463-1326.2010.01332.x
64. Bullarbo M, Ödman N, Nestler A, et al. Magnesium supplementation to prevent high blood pressure in pregnancy: A randomised placebo control trial. *Arch Gynecol Obstet.* 2013. doi:10.1007/s00404-013-2900-2
65. Zarean E, Tarjan A. Effect of Magnesium Supplement on Pregnancy Outcomes: A Randomized Control Trial. *Adv Biomed Res.* 2017. doi:10.4103/2277-9175.213879
66. Jin S, Sha L, Dong J, et al. Effects of Nutritional Strategies on Glucose Homeostasis in Gestational Diabetes Mellitus: A Systematic Review and Network Meta-Analysis. *J Diabetes Res.* 2020. doi:10.1155/2020/6062478
67. Zeisel SH. Choline: critical role during fetal development and dietary requirements in adults. *Annu Rev Nutr.* 2006. doi:10.1146/annurev.nutr.26.061505.111156
68. Wiedeman AM, Barr SI, Green TJ, Xu Z, Innis SM, Kitts DD. Dietary choline intake: Current state of knowledge across the life cycle. *Nutrients.* 2018. doi:10.3390/nu10101513
69. Wiedeman AM, Whitfield KC, March KM, et al. Concentrations of water-soluble forms of choline in human milk from lactating women in Canada and Cambodia. *Nutrients.* 2018;10(3):3-12. doi:10.3390/nu10030381
70. Chen MY, Northington R, Yan J. Choline composition in breast Milk-A systematic review and meta-analysis. *FASEB J.* 2017.
71. Ilcol YO, Ozbek R, Hamurtekin E, Ulus IH. Choline status in newborns, infants, children, breast-feeding women, breast-fed infants and human breast milk. *J Nutr Biochem.* 2005. doi:10.1016/j.jnutbio.2005.01.011
72. Fischer LM, Da Costa KA, Galanko J, et al. Choline intake and genetic polymorphisms influence choline metabolite concentrations in human breast milk and plasma. *Am J Clin Nutr.* 2010;92(2):336-346. doi:10.3945/ajcn.2010.29459
73. Jensen HH, Batres-Marquez SP, Carriquiry A, Schalinske KL. Choline in the diets of the US population: NHANES, 2003-2004. *FASEB J.* 2007.
74. Shaw GM, Carmichael SL, Yang W, Selvin S, Schaffer DM. Periconceptional dietary intake of choline and betaine and neural tube defects in offspring. *Am J Epidemiol.* 2004. doi:10.1093/aje/kwh187
75. Bahnfleth C, Canfield R, Nevins J, Caudill M, Strupp B. Prenatal Choline Supplementation Improves Child Color-location Memory Task Performance at 7 Y of Age (FS05-01-19). *Curr Dev Nutr.* 2019. doi:10.1093/cdn/nzz048.fs05-01-19
76. Korsmo HW, Jiang X, Caudill MA. Choline: Exploring the growing science on its benefits for moms and babies. *Nutrients.* 2019. doi:10.3390/nu11081823

EATING FOR TWO – CHAPTER REFERENCES

77. Caudill MA, Strupp BJ, Muscalu L, Nevins JEH, Canfield RL. Maternal choline supplementation during the third trimester of pregnancy improves infant information processing speed: A randomized, double-blind, controlled feeding study. *FASEB J.* 2018. doi:10.1096/fj.201700692RR
78. Greenberg JA, Bell SJ, Guan Y, Yu Y-H. Folic Acid supplementation and pregnancy: more than just neural tube defect prevention. *Rev Obstet Gynecol.* 2011.
79. Frye RE, Slattery JC, Quadros E V. Folate metabolism abnormalities in autism: Potential biomarkers. *Biomark Med.* 2017. doi:10.2217/bmm-2017-0109
80. Surén P, Roth C, Bresnahan M, et al. Association between maternal use of folic acid supplements and risk of autism spectrum disorders in children. *JAMA - J Am Med Assoc.* 2013;309(6):570-577. doi:10.1001/jama.2012.155925
81. Pediatrics TAA of. Policy Statement: Breastfeeding and the Use of Human Milk. *Pediatrics.* 2012;129(3):e827-41. doi:10.1542/peds.2011-3552
82. Gao Y, Sheng C, Xie RH, et al. New perspective on impact of folic acid supplementation during pregnancy on neurodevelopment/autism in the offspring children - A systematic review. *PLoS One.* 2016. doi:10.1371/journal.pone.0165626
83. Crider KS, Yang TP, Berry RJ, Bailey LB. Folate and DNA methylation: A review of molecular mechanisms and the evidence for Folate's role. *Adv Nutr.* 2012. doi:10.3945/an.111.000992
84. Moussa HN, Hosseini Nasab S, Haidar ZA, Blackwell SC, Sibai BM. Folic acid supplementation: what is new? Fetal, obstetric, long-term benefits and risks. *Futur Sci OA.* 2016. doi:10.4155/fsoa-2015-0015
85. Yang QH, Botto LD, Gallagher M, et al. Prevalence and effects of gene-gene and gene-nutrient interactions on serum folate and serum total homocysteine concentrations in the United States: Findings from the third National Health and Nutrition Examination Survey DNA Bank. *Am J Clin Nutr.* 2008. doi:10.1093/ajcn/88.1.232
86. Botto LD, Yang Q. *5,10-Methylenetetrahydrofolate Reductase Gene Variants and Congenital Anomalies: A HuGE Review.*; 2000. <https://academic.oup.com/aje/article-abstract/151/9/862/50368>. Accessed April 19, 2020.
87. Choo SC, Loh SP, Khor GL, Sabariah MN, Rozita R. MTHFR C677T polymorphism, homocysteine and B-vitamins status in a sample of Chinese and Malay subjects in Universiti Putra Malaysia. *Malays J Nutr.* 2011.
88. Wilcken B, Bamforth F, Li Z, et al. Geographical and ethnic variation of the 677C>T allele of 5, 10 methylenetetrahydrofolate reductase (MTHFR): Findings from over 7000 newborns from 16 areas world wide. *J Med Genet.* 2003;40(8):619-625. doi:10.1136/jmg.40.8.619
89. Obeid R, Holzgreve W, Pietrzik K. Is 5-methyltetrahydrofolate an alternative to folic acid for the prevention of neural tube defects? *J Perinat Med.* 2013. doi:10.1515/jpm-2012-0256
90. Maia SB, Souza ASR, Caminha MDFC, et al. Vitamin a and pregnancy: A narrative review. *Nutrients.* 2019. doi:10.3390/nu11030681
91. Kamen DL, Tangpricha V. Vitamin D and molecular actions on the immune system: Modulation of innate and autoimmunity. *J Mol Med.* 2010. doi:10.1007/s00109-010-0590-9

EATING FOR TWO – CHAPTER REFERENCES

92. Borges MC, Martini LA, Rogero MM. Current perspectives on vitamin D, immune system, and chronic diseases. *Nutrition*. 2011. doi:10.1016/j.nut.2010.07.022
93. Mohamed SA, Al-Hendy A, Schulkin J, Power ML. Opinions and Practice of US-Based Obstetrician-Gynecologists regarding Vitamin D Screening and Supplementation of Pregnant Women. *J Pregnancy*. 2016. doi:10.1155/2016/1454707
94. Daraki V, Roumeliotaki T, Koutra K, et al. High maternal vitamin D levels in early pregnancy may protect against behavioral difficulties at preschool age: the Rhea mother-child cohort, Crete, Greece. *Eur Child Adolesc Psychiatry*. 2018. doi:10.1007/s00787-017-1023-x
95. García-Serna AM, Morales E. Neurodevelopmental effects of prenatal vitamin D in humans: systematic review and meta-analysis. *Mol Psychiatry*. 2019. doi:10.1038/s41380-019-0357-9
96. Mazahery H, Camargo CA, Conlon C, Beck KL, Kruger MC, von Hurst PR. Vitamin D and autism spectrum disorder: A literature review. *Nutrients*. 2016. doi:10.3390/nu8040236
97. Fogacci S, Fogacci F, Banach M, et al. Vitamin D supplementation and incident preeclampsia: A systematic review and meta-analysis of randomized clinical trials. *Clin Nutr*. 2020;39(6):1742-1752. doi:10.1016/j.clnu.2019.08.015
98. Holick MF, Binkley NC, Bischoff-Ferrari HA, et al. Evaluation, treatment, and prevention of vitamin D deficiency: An endocrine society clinical practice guideline. *J Clin Endocrinol Metab*. 2011. doi:10.1210/jc.2011-0385
99. Committee opinion no. 495: Vitamin D: Screening and supplementation during pregnancy. *Obstet Gynecol*. 2011. doi:10.1097/AOG.0b013e318227f06b
100. Sebastiani G, Barbero AH, Borr C, Casanova MA, Aldecoa-bilbao V, Andreu-fern V. The Effects of Vegetarian and Vegan Diet during Pregnancy on the Health of Mothers and Offspring. *Nutrients*. 2019;1-29. doi:10.3390/nu11030557
101. Rogne T, Tielemans MJ, Chong MFF, et al. Associations of Maternal Vitamin B12 Concentration in Pregnancy with the Risks of Preterm Birth and Low Birth Weight: A Systematic Review and Meta-Analysis of Individual Participant Data. *Am J Epidemiol*. 2017. doi:10.1093/aje/kww212
102. Visentin CE, Masih SP, Plumptre L, et al. Low Serum Vitamin B12 Concentrations Are Prevalent in a Cohort of Pregnant Canadian Women. *J Nutr*. 2016;146(5):1035-1042. doi:10.3945/jn.115.226845
103. Chandy RK, Ulak M, Kvistad I, et al. The effects of vitamin B12 supplementation in pregnancy and postpartum on growth and neurodevelopment in early childhood: Study Protocol for a Randomized Placebo Controlled Trial. *BMJ Open*. 2017. doi:10.1136/bmjopen-2017-016434
104. Watanabe F, Yabuta Y, Bito T, Teng F. Vitamin B12-containing plant food sources for vegetarians. *Nutrients*. 2014;6(5):1861-1873. doi:10.3390/nu6051861
105. Allen LH. How common is vitamin B12 deficiency? 1-3. In: *American Journal of Clinical Nutrition*; 2009. doi:10.3945/ajcn.2008.26947A
106. Lam JR, Schneider JL, Zhao W, Corley DA. Proton pump inhibitor and histamine 2 receptor antagonist use and vitamin B12 deficiency. *JAMA - J Am Med Assoc*. 2013;310(22):2435-2442. doi:10.1001/jama.2013.280490

EATING FOR TWO – CHAPTER REFERENCES

107. Obeid R, Fedosov SN, Nexo E. Cobalamin coenzyme forms are not likely to be superior to cyano- and hydroxyl-cobalamin in prevention or treatment of cobalamin deficiency. *Mol Nutr Food Res.* 2015;59(7):1364-1372. doi:10.1002/mnfr.201500019
108. Paul C, Brady DM. Comparative Bioavailability and Utilization of Particular Forms of B12 Supplements with Potential to Mitigate B12-related Genetic Polymorphisms. *Integr Med.* 2017.
109. Nexo E, Hoffmann-Lücke E. Holotranscobalamin, a marker of vitamin B12 status: Analytical aspects and clinical utility. In: *American Journal of Clinical Nutrition.* Vol 94. Am J Clin Nutr; 2011. doi:10.3945/ajcn.111.013458
110. Jarquin Campos A, Risch L, Nydegger U, et al. Diagnostic Accuracy of Holotranscobalamin, Vitamin B12, Methylmalonic Acid, and Homocysteine in Detecting B12 Deficiency in a Large, Mixed Patient Population. *Dis Markers.* 2020;2020. doi:10.1155/2020/7468506
111. Kominiarek MA, Rajan P. Nutrition Recommendations in Pregnancy and Lactation. *Med Clin North Am.* 2016. doi:10.1016/j.mcna.2016.06.004
112. Elango R, Ball RO. Protein and Amino Acid Requirements during Pregnancy. *Adv Nutr.* 2016. doi:10.3945/an.115.011817
113. Stephens T V., Payne M, Ball RO, Pencharz PB, Elango R. Protein requirements of healthy pregnant women during early and late gestation are higher than current recommendations. *J Nutr.* 2015;145(1):73-78. doi:10.3945/jn.114.198622
114. Devi S, Varkey A, Sheshshayee MS, Preston T, Kurpad A V. Measurement of protein digestibility in humans by a dual-tracer method. *Am J Clin Nutr.* 2018. doi:10.1093/ajcn/nqy062
115. Shivakumar N, Kashyap S, Kishore S, et al. Protein-quality evaluation of complementary foods in Indian children. *Am J Clin Nutr.* 2019. doi:10.1093/ajcn/nqy265
116. Ebaid HM, Elgawish RAR, Abdelrazek HMA, Gaffer G, Tag HM. Prenatal Exposure to Soy Isoflavones Altered the Immunological Parameters in Female Rats. *Int J Toxicol.* 2016. doi:10.1177/1091581815625595
117. Gaffer GG, Elgawish RA, Abdelrazek HMA, Ebaid HM, Tag HM. Dietary soy isoflavones during pregnancy suppressed the immune function in male offspring albino rats. *Toxicol Reports.* 2018. doi:10.1016/j.toxrep.2018.02.002
118. Patisaul HB. Endocrine disruption by dietary phyto-oestrogens: Impact on dimorphic sexual systems and behaviours. In: *Proceedings of the Nutrition Society.* ; 2017. doi:10.1017/S0029665116000677
119. Bar-El Dadon S, Reifen R. Soy as an endocrine disruptor: Cause for caution? *J Pediatr Endocrinol Metab.* 2010. doi:10.1515/jpem.2010.138
120. Parvez S, Gerona RR, Proctor C, et al. Glyphosate exposure in pregnancy and shortened gestational length: A prospective Indiana birth cohort study. *Environ Health.* 2018. doi:10.1186/s12940-018-0367-0
121. Kearns CE, Schmidt LA, Glantz SA, Lee PR. Sugar Industry and Coronary Heart Disease Research: A Historical Analysis of Internal Industry Documents HHS Public Access. *JAMA Intern Med.* 2016;176(11):1680-1685. doi:10.1001/jamainternmed.2016.5394

EATING FOR TWO – CHAPTER REFERENCES

122. Honda T, Ohara T, Shinohara M, et al. Serum elaidic acid concentration and risk of dementia: The Hisayama Study. *Neurology*. 2019;93(22):E2053-E2064. doi:10.1212/WNL.0000000000008464
123. Dhaka V, Gulia N, Ahlawat KS, Khatkar BS. Trans fats-sources, health risks and alternative approach - A review. *J Food Sci Technol*. 2011. doi:10.1007/s13197-010-0225-8
124. Grootveld M, Silwood Cjl, Addis P, Claxton A, Serra Bb, Viana M. Health Effects Of Oxidized Heated Oils1. *Foodserv Res Int*. 2001. doi:10.1111/j.1745-4506.2001.tb00028.x
125. Esterbauer H, Muskiet F, Horrobin DF. Cytotoxicity and genotoxicity of lipid-oxidation products. In: *American Journal of Clinical Nutrition*. ; 1993. doi:10.1093/ajcn/57.5.779S
126. Staprans I, Pan XM, Rapp JH, Feingold KR. The role of dietary oxidized cholesterol and oxidized fatty acids in the development of atherosclerosis. In: *Molecular Nutrition and Food Research*. Vol 49. Mol Nutr Food Res; 2005:1075-1082. doi:10.1002/mnfr.200500063
127. Osorio-Yáñez C, Gelaye B, Qiu C, et al. Maternal intake of fried foods and risk of gestational diabetes mellitus. *Ann Epidemiol*. 2017. doi:10.1016/j.annepidem.2017.05.006
128. Bao W, Tobias DK, Olsen SF, Zhang C. Pre-pregnancy fried food consumption and the risk of gestational diabetes mellitus: A prospective cohort study. *Diabetologia*. 2014. doi:10.1007/s00125-014-3382-x
129. Mozaffarian D, Ludwig DS. The 2015 US dietary guidelines: Lifting the ban on total dietary fat. *JAMA - J Am Med Assoc*. 2015;313(24):2421-2422. doi:10.1001/jama.2015.5941
130. Siri-Tarino PW, Sun Q, Hu FB, Krauss RM. Saturated fat, carbohydrate, and cardiovascular disease. *Am J Clin Nutr*. 2010;91(3):502-509. doi:10.3945/ajcn.2008.26285
131. German JB, Dillard CJ. Saturated fats: A perspective from lactation and milk composition. *Lipids*. 2010. doi:10.1007/s11745-010-3445-9
132. Sheppard KW, Cheatham CL. Omega-6/omega-3 fatty acid intake of children and older adults in the U.S.: Dietary intake in comparison to current dietary recommendations and the Healthy Eating Index. *Lipids Health Dis*. 2018;17(1). doi:10.1186/s12944-018-0693-9
133. Roche HM. Unsaturated fatty acids. In: *Proceedings of the Nutrition Society*. ; 1999. doi:10.1017/S002966519900052X
134. Sugano M, Hirahara F. Polyunsaturated fatty acids in the food chain in Japan. In: *American Journal of Clinical Nutrition*. ; 2000. doi:10.1093/ajcn/71.1.189s
135. Simopoulos AP. Importance of the ratio of omega-6/omega-3 essential fatty acids: evolutionary aspects. *World Rev Nutr Diet*. 2003. doi:10.1159/000073788
136. Simopoulos AP. An increase in the Omega-6/Omega-3 fatty acid ratio increases the risk for obesity. *Nutrients*. 2016. doi:10.3390/nu8030128
137. Innis SM. Trans fatty intakes during pregnancy, infancy and early childhood. *Atheroscler Suppl*. 2006. doi:10.1016/j.atherosclerosis.2006.04.005
138. Leghi GE, Muhlhausler BS. The effect of n-3 LCPUFA supplementation on oxidative stress and inflammation in the placenta and maternal plasma during pregnancy. *Prostaglandins Leukot Essent Fat Acids*. 2016. doi:10.1016/j.plefa.2016.08.010

EATING FOR TWO – CHAPTER REFERENCES

139. Innis SM. Dietary (n-3) fatty acids and brain development. *J Nutr.* 2007. doi:10.1093/jn/137.4.855
140. Mulder KA, King DJ, Innis SM. Omega-3 fatty acid deficiency in infants before birth identified using a randomized trial of maternal DHA supplementation in pregnancy. *PLoS One.* 2014. doi:10.1371/journal.pone.0083764
141. Mulder KA, Elango R, Innis SM. Fetal DHA inadequacy and the impact on child neurodevelopment: A follow-up of a randomised trial of maternal DHA supplementation in pregnancy. *Br J Nutr.* 2018. doi:10.1017/S0007114517003531
142. Gerster H. Can adults adequately convert α-linolenic acid (18:3n-3) to eicosapentaenoic acid (20:5n-3) and docosahexaenoic acid (22:6n-3)? *Int J Vitam Nutr Res.* 1998.
143. Brenna JT, Salem N, Sinclair AJ, Cunnane SC. α-Linolenic acid supplementation and conversion to n-3 long-chain polyunsaturated fatty acids in humans. *Prostaglandins Leukot Essent Fat Acids.* 2009. doi:10.1016/j.plefa.2009.01.004
144. Goyens PLL, Spilker ME, Zock PL, Katan MB, Mensink RP. Conversion of α-linolenic acid in humans is influenced by the absolute amounts of α-linolenic acid and linoleic acid in the diet and not by their ratio. *Am J Clin Nutr.* 2006. doi:10.1093/ajcn/84.1.44
145. Hoge A, Bernardy F, Donneau AF, et al. Low omega-3 index values and monounsaturated fatty acid levels in early pregnancy: An analysis of maternal erythrocytes fatty acids. *Lipids Health Dis.* 2018. doi:10.1186/s12944-018-0716-6
146. Baharanchi EM, Sarabi MM, Naghibalhossaini F. Effects of dietary polyunsaturated fatty acids on DNA methylation and the expression of DNMT3b and PPAR α genes in rats. *Avicenna J Med Biotechnol.* 2018.
147. Heaton AE, Meldrum SJ, Foster JK, Prescott SL, Simmer K. Does docosahexaenoic acid supplementation in term infants enhance neurocognitive functioning in infancy? *Front Hum Neurosci.* 2013. doi:10.3389/fnhum.2013.00774
148. Lassek WD, Gaulin SJC. Maternal milk DHA content predicts cognitive performance in a sample of 28 nations. *Matern Child Nutr.* 2015. doi:10.1111/mcn.12060
149. Innis SM. Impact of maternal diet on human milk composition and neurological development of infants. *Am J Clin Nutr.* 2014. doi:10.3945/ajcn.113.072595
150. Shulkin M, Pimpin L, Bellinger D, et al. N-3 fatty acid supplementation in mothers, preterm infants, and term infants and childhood psychomotor and visual development: A systematic review and meta-analysis. *J Nutr.* 2018;148(3):409-418. doi:10.1093/jn/nxx031
151. van der Wurff ISM, Bakker EC, Hornstra G, et al. Association between prenatal and current exposure to selected LCPUFAs and school performance at age 7. *Prostaglandins Leukot Essent Fat Acids.* 2016. doi:10.1016/j.plefa.2016.03.005
152. Brew BK, Toelle BG, Webb KL, Almqvist C, Marks GB. Omega-3 supplementation during the first 5 years of life and later academic performance: A randomised controlled trial. *Eur J Clin Nutr.* 2015. doi:10.1038/ejcn.2014.155

EATING FOR TWO – CHAPTER REFERENCES

153. Helland IB, Smith L, Blomen B, Saarem K, Saugstad OD, Drevon CA. Effect of supplementing pregnant and lactating mothers with n-3 very-long-chain fatty acids on children's iq and body mass index at 7 years of age. *Pediatrics*. 2008. doi:10.1542/peds.2007-2762
154. López-Vicente M, Ribas Fitó N, Vilor-Tejedor N, et al. Prenatal Omega-6:Omega-3 Ratio and Attention Deficit and Hyperactivity Disorder Symptoms. *J Pediatr*. 2019. doi:10.1016/j.jpeds.2019.02.022
155. Nordgren TM, Lyden E, Anderson-Berry A, Hanson C. Omega-3 fatty acid intake of pregnant women and women of childbearing age in the united states: Potential for deficiency? *Nutrients*. 2017. doi:10.3390/nu9030197
156. Zhang Z, Fulgoni VL, Kris-Etherton PM, Mitmesser SH. Dietary intakes of EPA and DHA omega-3 fatty acids among US childbearing-age and pregnant women: An analysis of NHANES 2001–2014. *Nutrients*. 2018. doi:10.3390/nu10040416
157. Heaton AE, Meldrum SJ, Foster JK, Prescott SL, Simmer K. Does docosahexaenoic acid supplementation in term infants enhance neurocognitive functioning in infancy? *Front Hum Neurosci*. 2013;7(NOV). doi:10.3389/fnhum.2013.00774
158. Thompson M, Hein N, Hanson C, et al. Omega-3 fatty acid intake by age, gender, and pregnancy status in the United States: National health and nutrition examination survey 2003–2014. *Nutrients*. 2019;11(1):1-14. doi:10.3390/nu11010177
159. Mustad VA, Huynh DTT, López-Pedrosa JM, Campoy C, Rueda R. The role of dietary carbohydrates in gestational diabetes. *Nutrients*. 2020;12(2). doi:10.3390/nu12020385
160. Yang S, Reid G, Challis JRG, Kim SO, Gloor GB, Bocking AD. Is there a role for probiotics in the prevention of preterm birth? *Front Immunol*. 2015. doi:10.3389/fimmu.2015.00062
161. Othman M, Neilson JP, Alfirevic Z. Probiotics for preventing preterm labour. *Cochrane Database Syst Rev*. 2007. doi:10.1002/14651858.CD005941.pub2
162. Brantsæter AL, Myhre R, Haugen M, et al. Intake of probiotic food and risk of preeclampsia in primiparous women. *Am J Epidemiol*. 2011. doi:10.1093/aje/kwr168
163. Vandevusse L, Hanson L, Safdar N. Perinatal outcomes of prenatal probiotic and prebiotic administration: An integrative review. *J Perinat Neonatal Nurs*. 2013. doi:10.1097/JPN.0b013e3182a1e15d
164. Baldassarre ME, Di Mauro A, Capozza M, et al. Dysbiosis and prematurity: Is there a role for probiotics? *Nutrients*. 2019;11(6). doi:10.3390/nu11061273
165. Ho M, Chang YY, Chang WC, et al. Oral Lactobacillus rhamnosus GR-1 and Lactobacillus reuteri RC-14 to reduce Group B Streptococcus colonization in pregnant women: A randomized controlled trial. *Taiwan J Obstet Gynecol*. 2016. doi:10.1016/j.tjog.2016.06.003
166. Martín V, Cárdenas N, Ocaña S, et al. Rectal and vaginal eradication of streptococcus agalactiae (Gbs) in pregnant women by using lactobacillus salivarius cect 9145, a target-specific probiotic strain. *Nutrients*. 2019. doi:10.3390/nu11040810

167. Mastromarino P, Capobianco D, Miccheli A, et al. Administration of a multistrain probiotic product (VSL#3) to women in the perinatal period differentially affects breast milk beneficial microbiota in relation to mode of delivery. *Pharmacol Res.* 2015. doi:10.1016/j.phrs.2015.03.013
168. Moossavi S, Azad MB. Origins of human milk microbiota: new evidence and arising questions. *Gut Microbes.* 2020. doi:10.1080/19490976.2019.1667722
169. Moossavi S, Miliku K, Sepehri S, Khafipour E, Azad MB. The prebiotic and probiotic properties of human milk: Implications for infant immune development and pediatric asthma. *Front Pediatr.* 2018. doi:10.3389/fped.2018.00197
170. Zhang GQ, Hu HJ, Liu CY, Zhang Q, Shakya S, Li ZY. Probiotics for prevention of atopy and food hypersensitivity in early childhood A PRISMA-compliant systematic review and meta-analysis of randomized controlled trials. *Med (United States).* 2016. doi:10.1097/MD.0000000000002562
171. Zheng J, Feng Q, Zheng S, Xiao X. The effects of probiotics supplementation on metabolic health in pregnant women: An evidence based meta-analysis. *PLoS One.* 2018. doi:10.1371/journal.pone.0197771
172. Mueller NT, Bakacs E, Combellick J, Grigoryan Z, Dominguez-Bello MG. The infant microbiome development: Mom matters. *Trends Mol Med.* 2015. doi:10.1016/j.molmed.2014.12.002
173. Zhang C, Liu S, Solomon CG, Hu FB. Dietary fiber intake, dietary glycemic load, and the risk for gestational diabetes mellitus. *Diabetes Care.* 2006. doi:10.2337/dc06-0266
174. Ley SH, Hanley AJ, Retnakaran R, Sermer M, Zinman B, O'Connor DL. Effect of macronutrient intake during the second trimester on glucose metabolism later in pregnancy. *Am J Clin Nutr.* 2011. doi:10.3945/ajcn.111.018861
175. Qiu C, Coughlin KB, Frederick IO, Sorensen TK, Williams MA. Dietary fiber intake in early pregnancy and risk of subsequent preeclampsia. *Am J Hypertens.* 2008. doi:10.1038/ajh.2008.209
176. Barker DJP, Godfrey KM, Gluckman PD, Harding JE, Owens JA, Robinson JS. Fetal nutrition and cardiovascular disease in adult life. *Lancet.* 1993. doi:10.1016/0140-6736(93)91224-A
177. A. S, J. D, P. G, et al. High fructose diet in pregnancy leads to fetal programming of hypertension, insulin resistance and obesity in adult offspring. *Am J Obstet Gynecol.* 2016.
178. Chen L-W, Navarro P, Murrin CM, Mehegan J, Kelleher CC, Phillips CM. Prospective associations of maternal glycaemic insulin index and load with birth outcomes and weight status at age 5 years: results from the Lifeways Cross Generation Cohort Study. *Lancet.* 2018. doi:10.1016/s0140-6736(18)32089-0
179. Murrin C, Shrivastava A, Kelleher CC. Maternal macronutrient intake during pregnancy and 5 years postpartum and associations with child weight status aged five. *Eur J Clin Nutr.* 2013;67(6):670-679. doi:10.1038/ejcn.2013.76
180. Jen V, Erler NS, Tielemans MJ, et al. Mothers' intake of sugar-containing beverages during pregnancy and body composition of their children during childhood: The Generation R Study. *Am J Clin Nutr.* 2017. doi:10.3945/ajcn.116.147934
181. Regnault TR, Gentili S, Sarr O, Toop CR, Sloboda DM. Fructose, pregnancy and later life impacts. *Clin Exp Pharmacol Physiol.* 2013. doi:10.1111/1440-1681.12162

EATING FOR TWO – CHAPTER REFERENCES

182. Astbury S, Song A, Zhou M, et al. High fructose intake during pregnancy in rats influences the maternal microbiome and gut development in the offspring. *Front Genet.* 2018. doi:10.3389/fgene.2018.00203
183. Tain Y, Chan JYH, Hsu C. Maternal Fructose Intake Affects Transcriptome Changes and Programmed Hypertension in Offspring in Later Life. *J Nutr Biochem.* 2016. doi:10.3390/nu8120757
184. Clayton ZE, Vickers MH, Bernal A, Yap C, Sloboda DM. Early life exposure to fructose alters maternal, fetal and neonatal hepatic gene expression and leads to sex-dependent changes in lipid metabolism in rat offspring. *PLoS One.* 2015. doi:10.1371/journal.pone.0141962
185. Sloboda DM, Li M, Patel R, Clayton ZE, Yap C, Vickers MH. Early life exposure to fructose and offspring phenotype: Implications for long term metabolic homeostasis. *J Obes.* 2014. doi:10.1155/2014/203474
186. Yamada H, Munetsuna E, Ohashi K. High-fructose consumption and the epigenetics of DNA methylation. In: *Handbook of Nutrition, Diet, and Epigenetics.* ; 2019. doi:10.1007/978-3-319-55530-0_49
187. Zhu Y, Olsen SF, Mendola P, et al. Maternal dietary intakes of refined grains during pregnancy and growth through the first 7 y of life among children born to women with gestational diabetes. *Am J Clin Nutr.* 2017. doi:10.3945/ajcn.116.136291
188. Cook JD, Reddy MB. Effect of ascorbic acid intake on nonheme-iron absorption from a complete diet. *Am J Clin Nutr.* 2001. doi:10.1093/ajcn/73.1.93
189. Teucher B, Olivares M, Cori H. Enhancers of iron absorption: Ascorbic acid and other organic acids. In: *International Journal for Vitamin and Nutrition Research.* ; 2004. doi:10.1024/0300-9831.74.6.403
190. Beck KL, Conlon CA, Kruger R, Coad J. Dietary determinants of and possible solutions to iron deficiency for young women living in industrialized countries: A review. *Nutrients.* 2014. doi:10.3390/nu6093747
191. Daru J, Allotey J, Peña-Rosas JP, Khan KS. Serum ferritin thresholds for the diagnosis of iron deficiency in pregnancy: a systematic review. *Transfus Med.* 2017. doi:10.1111/tme.12408
192. Juul SE, Derman RJ, Auerbach M. Perinatal Iron Deficiency: Implications for Mothers and Infants. *Neonatology.* 2019;115(3):269-274. doi:10.1159/000495978
193. Auerbach M, Abernathy J, Juul S, Short V, Derman R. Prevalence of iron deficiency in first trimester, nonanemic pregnant women. *J Matern Neonatal Med.* 2019. doi:10.1080/14767058.2019.1619690
194. Auerbach M, Abernathy J, Juul S, Short V, Derman R. Prevalence of iron deficiency in first trimester, nonanemic pregnant women. *J Matern Neonatal Med.* 2019. doi:10.1080/14767058.2019.1619690
195. Means RT. Iron deficiency and iron deficiency anemia: Implications and impact in pregnancy, fetal development, and early childhood parameters. *Nutrients.* 2020. doi:10.3390/nu12020447
196. Pavord S, Daru J, Prasannan N, Robinson S, Stanworth S, Girling J. UK guidelines on the management of iron deficiency in pregnancy. *Br J Haematol.* 2020. doi:10.1111/bjh.16221

197. Auerbach M, Georgieff MK. Guidelines for iron deficiency in pregnancy: hope abounds: Commentary to accompany: UK guidelines on the management of iron deficiency in pregnancy. *Br J Haematol.* 2020. doi:10.1111/bjh.16220
198. Georgieff MK. Iron deficiency in pregnancy. *Am J Obstet Gynecol.* 2020. doi:10.1016/j.ajog.2020.03.006
199. Georgieff MK. Iron assessment to protect the developing brain. In: *American Journal of Clinical Nutrition.* ; 2017. doi:10.3945/ajcn.117.155846
200. Georgieff MK, Krebs NF, Cusick SE. The Benefits and Risks of Iron Supplementation in Pregnancy and Childhood. *Annu Rev Nutr.* 2019;39(1):121-146. doi:10.1146/annurev-nutr-082018-124213
201. Cusick SE, Georgieff MK, Rao R. Approaches for reducing the risk of early-life iron deficiency-induced brain dysfunction in children. *Nutrients.* 2018. doi:10.3390/nu10020227
202. Milman N, Taylor CL, Merkel J, Brannon PM. Iron status in pregnant women and women of reproductive age in Europe. In: *American Journal of Clinical Nutrition.* ; 2017. doi:10.3945/ajcn.117.156000
203. National Institutes of Health (www.NIH.gov),
204. USDA Nutrient Database (<https://fdc.nal.usda.gov/>)
205. Health Link British Columbia (www.healthlinkBC.ca),
206. Linus Pauling Institute (<https://lpi.oregonstate.edu/mic/minerals/iron>)
207. Pietrzik K, Bailey L, Shane B. Folic acid and 1,5-methyltetrahydrofolate: Comparison of clinical pharmacokinetics and pharmacodynamics. *Clin Pharmacokinet.* 2010;49(8). doi:10.2165/11532990
208. Ferrazzi E, Tiso G, Di Martino D. Folic acid versus 5- methyl tetrahydrofolate supplementation in pregnancy. *Eur J Obstet Gynecol Reprod Biol.* 2020;253. doi:10.1016/j.ejogrb.2020.06.012
209. Czeizel AE, Dudás I, Paput L, Bánhidy F. Prevention of neural-tube defects with periconceptional folic acid, methylfolate, or multivitamins? *Ann Nutr Metab.* 2011;58(4). doi:10.1159/000330776
210. Yan L, Zhao L, Long Y, et al. Association of the Maternal MTHFR C677T Polymorphism with Susceptibility to Neural Tube Defects in Offsprings: Evidence from 25 Case-Control Studies. *PLoS One.* 2012;7(10). doi:10.1371/journal.pone.0041689
211. Jankovic-Karasoulos T, Furness DL, Leemaqz SY, et al. Maternal folate, one-carbon metabolism and pregnancy outcomes. *Matern Child Nutr.* 2021;17(1). doi:10.1111/mcn.13064
212. Liu C, Luo D, Wang Q, et al. Serum homocysteine and folate concentrations in early pregnancy and subsequent events of adverse pregnancy outcome: The Sichuan Homocysteine study. *BMC Pregnancy Childbirth.* 2020;20(1). doi:10.1186/s12884-020-02860-9
213. Plumptre L, Masih SP, Ly A, et al. High concentrations of folate and unmetabolized folic acid in a cohort of pregnant Canadian women and umbilical cord blood. *Am J Clin Nutr.* 2015;102(4). doi:10.3945/ajcn.115.110783
214. Tafuri L, J Servy E, J R Menezo Y. The hazards of excessive folic acid intake in MTHFR gene mutation carriers: An obstetric and gynecological perspective. *Clin Obstet Gynecol Reprod Med.* 2018;4(2). doi:10.15761/cogr.1000215

Endnotes

Chapter 5- Minimizing Exposure to Toxins and Pollutants

1. Tamayo-Uria I, Maitre L, Thomsen C, et al. The early-life exposome: Description and patterns in six European countries. *Environ Int.* 2019. doi:10.1016/j.envint.2018.11.067
2. Vermeulen R, Schymanski EL, Barabási AL, Miller GW. The exposome and health: Where chemistry meets biology. *Science (80-).* 2020. doi:10.1126/science.aay3164
3. Johnson CH, Athersuch TJ, Collman GW, et al. Yale school of public health symposium on lifetime exposures and human health: The exposome; Summary and future reflections. In: *Human Genomics.* ; 2017. doi:10.1186/s40246-017-0128-0
4. Vrijheid M, Slama R, Robinson O, et al. The human early-life exposome (HELIX): Project rationale and design. *Environ Health Perspect.* 2014. doi:10.1289/ehp.1307204
5. Maitre L, De Bont J, Casas M, et al. Human Early Life Exposome (HELIX) study: A European population-based exposome cohort. *BMJ Open.* 2018. doi:10.1136/bmjopen-2017-021311
6. Grandjean P, Landrigan PJ. Neurobehavioural effects of developmental toxicity. *Lancet Neurol.* 2014. doi:10.1016/S1474-4422(13)70278-3
7. Ünüvar T, Büyükgelibiz A. Fetal and neonatal endocrine disruptors. *JCRPE J Clin Res Pediatr Endocrinol.* 2012. doi:10.4274/Jcrpe.569
8. Tests Find More Than 200 Chemicals in Newborn Umbilical Cord Blood - Scientific American. <https://www.scientificamerican.com/article/newborn-babies-chemicals-exposure-bpa/>. Accessed September 25, 2020.
9. Morello-Frosch R, Cushing LJ, Jesdale BM, et al. Environmental chemicals in an urban population of pregnant women and their newborns from San Francisco. *Environ Sci Technol.* 2016. doi:10.1021/acs.est.6b03492
10. Terry P, Towers C V., Liu LY, Peverly AA, Chen J, Salamova A. Polybrominated diphenyl ethers (flame retardants) in mother-infant pairs in the Southeastern U.S. *Int J Environ Health Res.* 2017;27(3):205-214. doi:10.1080/09603123.2017.1332344
11. Parvez S, Gerona RR, Proctor C, et al. Glyphosate exposure in pregnancy and shortened gestational length: A prospective Indiana birth cohort study. *Environ Heal A Glob Access Sci Source.* 2018. doi:10.1186/s12940-018-0367-0
12. Ibrahim F, Halttunen T, Tahvonen R, Salminen S. Probiotic bacteria as potential detoxification tools: Assessing their heavy metal binding isotherms. *Can J Microbiol.* 2006. doi:10.1139/W06-043
13. Feng P, Ye Z, Kakade A, Virk AK, Li X, Liu P. A review on gut remediation of selected environmental contaminants: Possible roles of probiotics and gut microbiota. *Nutrients.* 2019. doi:10.3390/nu11010022
14. Trinder M, McDowell TW, Daisley BA, et al. Probiotic lactobacillus rhamnosus reduces organophosphate pesticide absorption and toxicity to *Drosophila melanogaster*. *Appl Environ Microbiol.* 2016. doi:10.1128/AEM.01510-16

EATING FOR TWO – CHAPTER REFERENCES

15. Hodges RE, Minich DM. Modulation of Metabolic Detoxification Pathways Using Foods and Food-Derived Components: A Scientific Review with Clinical Application. *J Nutr Metab.* 2015. doi:10.1155/2015/760689
16. Beath S V. Hepatic function and physiology in the newborn. *Semin Neonatol.* 2003;8(5):337-346. doi:10.1016/S1084-2756(03)00066-6
17. Piñ Eiro-Carrero VM, Piñ Eiro EO. *Liver.* Vol 113.; 2004. www.aappublications.org/news. Accessed September 25, 2020.
18. Saili KS, Zurlinden TJ, Schwab AJ, et al. Blood-brain barrier development: Systems modeling and predictive toxicology. *Birth Defects Res.* 2017;109(20):1680-1710. doi:10.1002/bdr2.1180
19. Morris G, Fernandes BS, Puri BK, Walker AJ, Carvalho AF, Berk M. Leaky brain in neurological and psychiatric disorders: Drivers and consequences. *Aust N Z J Psychiatry.* 2018. doi:10.1177/0004867418796955
20. Obrenovich M. Leaky Gut, Leaky Brain? *Microorganisms.* 2018. doi:10.3390/microorganisms6040107
21. Nation DA, Sweeney MD, Montagne A, et al. Blood–brain barrier breakdown is an early biomarker of human cognitive dysfunction. *Nat Med.* 2019. doi:10.1038/s41591-018-0297-y
22. Sweeney MD, Sagare AP, Zlokovic B V. Blood-brain barrier breakdown in Alzheimer disease and other neurodegenerative disorders. *Nat Rev Neurol.* 2018. doi:10.1038/nrneurol.2017.188
23. M. F, A. S, S. S, et al. Blood-brain barrier and intestinal epithelial barrier alterations in autism spectrum disorders. *Mol Autism.* 2016. doi:10.1186/s13229-016-0110-z LK -
24. Rice D, Barone S. Critical periods of vulnerability for the developing nervous system: Evidence from humans and animal models. *Environ Health Perspect.* 2000;108(SUPPL. 3):511-533. doi:10.1289/ehp.00108s3511
25. Royston KJ, Tollesbol TO. The Epigenetic Impact of Cruciferous Vegetables on Cancer Prevention. *Curr Pharmacol Reports.* 2015;1(1):46-51. doi:10.1007/s40495-014-0003-9
26. Barański M, Średnicka-Tober D, Volakakis N, et al. Higher antioxidant and lower cadmium concentrations and lower incidence of pesticide residues in organically grown crops: A systematic literature review and meta-analyses. *Br J Nutr.* 2014. doi:10.1017/S0007114514001366
27. Lu C, Toepel K, Irish R, Fenske RA, Barr DB, Bravo R. Organic diets significantly lower children's dietary exposure to organophosphorus pesticides. *Environ Health Perspect.* 2006. doi:10.1289/ehp.8418
28. Hertz-Pannier I, Sass JB, Engel S, et al. Organophosphate exposures during pregnancy and child neurodevelopment: Recommendations for essential policy reforms. *PLoS Med.* 2018;15(10):1-15. doi:10.1371/journal.pmed.1002671
29. Rauh VA, Perera FP, Horton MK, et al. Brain anomalies in children exposed prenatally to a common organophosphate pesticide. *Proc Natl Acad Sci U S A.* 2012;109(20):7871-7876. doi:10.1073/pnas.1203396109

EATING FOR TWO – CHAPTER REFERENCES

30. Rauh V, Arunajadai S, Horton M, et al. Seven-year neurodevelopmental scores and prenatal exposure to chlorpyrifos, a common agricultural pesticide. *Everyday Environ Toxins Child Expo Risks.* 2015;(8):201-219. doi:10.1201/b18221
31. Roberts JR, Karr CJ, Paulson JA, et al. Pesticide exposure in children. *Pediatrics.* 2012. doi:10.1542/peds.2012-2757
32. Bouchard MF, Bellinger DC, Wright RO, Weisskopf MG. Attention-deficit/hyperactivity disorder and urinary metabolites of organophosphate pesticides. *Pediatrics.* 2010. doi:10.1542/peds.2009-3058
33. Wagner-Schuman M, Richardson JR, Auinger P, et al. Association of pyrethroid pesticide exposure with attention-deficit/hyperactivity disorder in a nationally representative sample of U.S. children. *Environ Heal.* 2015. doi:10.1186/s12940-015-0030-y
34. Roberts JR, Dawley EH, Reigart JR. Children's low-level pesticide exposure and associations with autism and ADHD: a review. *Pediatr Res.* 2019. doi:10.1038/s41390-018-0200-z
35. Roberts JR, Karr CJ. Pesticide Exposure in Children. *Pediatrics.* 2012. doi:10.1542/peds.2012-2758
36. Ricceri L, Venerosi A, Capone F, et al. Developmental neurotoxicity of organophosphorous pesticides: Fetal and neonatal exposure to chlorpyrifos alters sex-specific behaviors at adulthood in mice. *Toxicol Sci.* 2006;93(1):105-113. doi:10.1093/toxsci/kfl032
37. Zhang Y, Han S, Liang D, et al. Prenatal exposure to organophosphate pesticides and neurobehavioral development of neonates: A birth cohort study in Shenyang, China. *PLoS One.* 2014. doi:10.1371/journal.pone.0088491
38. Muñoz-Quezada MT, Lucero BA, Barr DB, et al. Neurodevelopmental effects in children associated with exposure to organophosphate pesticides: A systematic review. *Neurotoxicology.* 2013. doi:10.1016/j.neuro.2013.09.003
39. Mnif W, Hassine AIH, Bouaziz A, Bartegi A, Thomas O, Roig B. Effect of endocrine disruptor pesticides: A review. *Int J Environ Res Public Health.* 2011. doi:10.3390/ijerph8062265
40. Nicolopoulou-Stamati P, Maipas S, Kotampasi C, Stamatis P, Hens L. Chemical Pesticides and Human Health: The Urgent Need for a New Concept in Agriculture. *Front Public Heal.* 2016. doi:10.3389/fpubh.2016.00148
41. Liang Y, Zhan J, Liu D, et al. Organophosphorus pesticide chlorpyrifos intake promotes obesity and insulin resistance through impacting gut and gut microbiota. *Microbiome.* 2019. doi:10.1186/s40168-019-0635-4
42. Chiu YH, Williams PL, Gillman MW, et al. Association between pesticide residue intake from consumption of fruits and vegetables and pregnancy outcomes among women undergoing infertility treatment with assisted reproductive technology. *JAMA Intern Med.* 2018. doi:10.1001/jamainternmed.2017.5038
43. Vandenberg LN, Colborn T, Hayes TB, et al. Hormones and endocrine-disrupting chemicals: Low-dose effects and nonmonotonic dose responses. *Endocr Rev.* 2012;33(3):378-455. doi:10.1210/er.2011-1050

44. Zoeller RT, Vandenberg LN. Assessing dose-response relationships for endocrine disrupting chemicals (EDCs): A focus on non-monotonicity. *Environ Heal A Glob Access Sci Source.* 2015;14(1). doi:10.1186/s12940-015-0029-4
45. Lagarde F, Beausoleil C, Belcher SM, et al. Non-monotonic dose-response relationships and endocrine disruptors: A qualitative method of assessment -No section-. *Environ Heal A Glob Access Sci Source.* 2015;14(1):13. doi:10.1186/1476-069X-14-13
46. Diamanti-Kandarakis E, Bourguignon JP, Giudice LC, et al. Endocrine-disrupting chemicals: An Endocrine Society scientific statement. *Endocr Rev.* 2009. doi:10.1210/er.2009-0002
47. Gore AC, Chappell VA, Fenton SE, et al. EDC-2: The Endocrine Society's Second Scientific Statement on Endocrine-Disrupting Chemicals. *Endocr Rev.* 2015;36(6):1-150. doi:10.1210/er.2015-1010
48. Tran NQV, Miyake K. Neurodevelopmental Disorders and Environmental Toxicants: Epigenetics as an Underlying Mechanism. *Int J Genomics.* 2017. doi:10.1155/2017/7526592
49. Ye BS, Leung AOW, Wong MH. The association of environmental toxicants and autism spectrum disorders in children. *Environ Pollut.* 2017. doi:10.1016/j.envpol.2017.04.039
50. Mallozzi M, Bordi G, Garo C, Caserta D. The effect of maternal exposure to endocrine disrupting chemicals on fetal and neonatal development: A review on the major concerns. *Birth Defects Res Part C - Embryo Today Rev.* 2016. doi:10.1002/bdrc.21137
51. Braun JM. Early-life exposure to EDCs: Role in childhood obesity and neurodevelopment. *Nat Rev Endocrinol.* 2017. doi:10.1038/nrendo.2016.186
52. Rochester JR, Bolden AL, Kwiatkowski CF. Prenatal exposure to bisphenol A and hyperactivity in children: a systematic review and meta-analysis. *Environ Int.* 2018. doi:10.1016/j.envint.2017.12.028
53. Andújar N, Gálvez-Ontiveros Y, Zafra-Gómez A, et al. Bisphenol A analogues in food and their hormonal and obesogenic effects: A review. *Nutrients.* 2019;11(9). doi:10.3390/nu11092136
54. Thoene M, Dzika E, Gonkowski S, Wojtkiewicz J. Bisphenol S in Food Causes Hormonal and Obesogenic Effects Comparable to or Worse than Bisphenol A: A Literature Review. *Nutrients.* 2020;12(2):532. doi:10.3390/nu12020532
55. Seachrist DD, Bonk KW, Ho SM, Prins GS, Soto AM, Keri RA. A review of the carcinogenic potential of bisphenol A. *Reprod Toxicol.* 2016;59:167-182. doi:10.1016/j.reprotox.2015.09.006
56. Wazir U, Mokbel K. Bisphenol A: A concise review of literature and a discussion of health and regulatory implications. *In Vivo (Brooklyn).* 2019;33(5):1421-1423. doi:10.21873/invivo.11619
57. Nomiri S, Hoshyar R, Ambrosino C, Tyler CR, Mansouri B. A mini review of bisphenol A (BPA) effects on cancer-related cellular signaling pathways. *Environ Sci Pollut Res.* 2019;26(9):8459-8467. doi:10.1007/s11356-019-04228-9
58. De Falco M, Forte M, Laforgia V. Estrogenic and anti-androgenic endocrine disrupting chemicals and their impact on the male reproductive system. *Front Environ Sci.* 2015;3(FEB):3. doi:10.3389/fenvs.2015.00003

EATING FOR TWO – CHAPTER REFERENCES

59. Mallozzi M, Bordi G, Garo C, Caserta D. Review The Effect of Maternal Exposure to Endocrine Disrupting Chemicals on Fetal and Neonatal Development : A Review on the Major Concerns. *Birth Defects Res.* 2016; m. doi:10.1002/bdrc.21137
60. Radke EG, Braun JM, Nachman RM, Cooper GS. Phthalate exposure and neurodevelopment: A systematic review and meta-analysis of human epidemiological evidence. *Environ Int.* 2020;137. doi:10.1016/j.envint.2019.105408
61. Ejaredar M, Nyanza EC, Ten Eycke K, Dewey D. Phthalate exposure and childrens neurodevelopment: A systematic review. *Environ Res.* 2015;142:51-60. doi:10.1016/j.envres.2015.06.014
62. Grova N, Schroeder H, Olivier J, Turner JD. Epigenetic and Neurological Impairments Associated with Early Life Exposure to Persistent Organic Pollutants. *Int J Genomics.* 2019;2019. doi:10.1155/2019/2085496
63. Johnson-Restrepo B, Kannan K. An assessment of sources and pathways of human exposure to polybrominated diphenyl ethers in the United States. *Chemosphere.* 2009;76(4):542-548. doi:10.1016/j.chemosphere.2009.02.068
64. Hudson-Hanley B, Irvin V, Flay B, MacDonald M, Kile ML. Prenatal PBDE Exposure and Neurodevelopment in Children 7 Years Old or Younger: a Systematic Review and Meta-analysis. *Curr Epidemiol Reports.* 2018;5(1):46-59. doi:10.1007/s40471-018-0137-0
65. Gibson EA, Siegel EL, Eniola F, Herbstman JB, Factor-Litvak P. Effects of polybrominated diphenyl ethers on child cognitive, behavioral, and motor development. *Int J Environ Res Public Health.* 2018. doi:10.3390/ijerph15081636
66. Sunderland EM, Hu XC, Dassuncao C, Tokranov AK, Wagner CC, Allen JG. A review of the pathways of human exposure to poly- and perfluoroalkyl substances (PFASs) and present understanding of health effects. *J Expo Sci Environ Epidemiol.* 2019;29(2):131-147. doi:10.1038/s41370-018-0094-1
67. Huang H, Yu K, Zeng X, et al. Association between prenatal exposure to perfluoroalkyl substances and respiratory tract infections in preschool children. *Environ Res.* 2020;191:110156. doi:10.1016/j.envres.2020.110156
68. Liew Z, Goudarzi H, Oulhote Y. Developmental Exposures to Perfluoroalkyl Substances (PFASs): An Update of Associated Health Outcomes. *Curr Environ Heal reports.* 2018. doi:10.1007/s40572-018-0173-4
69. Seltenrich N. PFAS in Food Packaging: A Hot, Greasy Exposure. *Environ Health Perspect.* 2020;128(5):054002. doi:10.1289/EHP6335
70. Prevention of Childhood Lead Toxicity. *Pediatrics.* 2016. doi:10.1542/peds.2016-1493
71. Gump BB, Dykas MJ, MacKenzie JA, et al. Background lead and mercury exposures: Psychological and behavioral problems in children. *Environ Res.* 2017. doi:10.1016/j.envres.2017.06.033
72. Tolins M, Ruchirawat M, Landrigan P. The developmental neurotoxicity of arsenic: Cognitive and behavioral consequences of early life exposure. *Ann Glob Heal.* 2014. doi:10.1016/j.aogh.2014.09.005

EATING FOR TWO – CHAPTER REFERENCES

73. Farzan SF, Karagas MR, Chen Y. In utero and early life arsenic exposure in relation to long-term health and disease. *Toxicol Appl Pharmacol.* 2013. doi:10.1016/j.taap.2013.06.030
74. Islam S, Rahman MM, Islam MR, Naidu R. Arsenic accumulation in rice: Consequences of rice genotypes and management practices to reduce human health risk. *Environ Int.* 2016. doi:10.1016/j.envint.2016.09.006
75. Mandal U, Singh P, Kundu AK, Chatterjee D, Nriagu J, Bhowmick S. Arsenic retention in cooked rice: Effects of rice type, cooking water, and indigenous cooking methods in West Bengal, India. *Sci Total Environ.* 2019. doi:10.1016/j.scitotenv.2018.08.172
76. Mwale T, Rahman MM, Mondal D. Risk and benefit of different cooking methods on essential elements and arsenic in rice. *Int J Environ Res Public Health.* 2018. doi:10.3390/ijerph15061056
77. Davis MA, Mackenzie TA, Cottingham KL, Gilbert-Diamond D, Punshon T, Karagas MR. Rice consumption and urinary arsenic concentrations in U.S. children. *Environ Health Perspect.* 2012. doi:10.1289/ehp.1205014
78. Davis MA, Signes-Pastor AJ, Argos M, et al. Assessment of human dietary exposure to arsenic through rice. *Sci Total Environ.* 2017. doi:10.1016/j.scitotenv.2017.02.119
79. Karagas MR, Punshon T, Sayarath V, Jackson BP, Folt CL, Cottingham KL. Association of rice and rice-product consumption with arsenic exposure early in life. *JAMA Pediatr.* 2016. doi:10.1001/jamapediatrics.2016.0120
80. Barnaby R, Liefeld A, Jackson BP, Hampton TH, Stanton BA. Effectiveness of table top water pitcher filters to remove arsenic from drinking water. *Environ Res.* 2017. doi:10.1016/j.envres.2017.07.018
81. Zahir F, Rizwi SJ, Haq SK, Khan RH. Low dose mercury toxicity and human health. *Environ Toxicol Pharmacol.* 2005. doi:10.1016/j.etap.2005.03.007
82. NRC. Scientific Frontiers in Developmental Toxicology and Risk Assessment: Board on Environmental Studies and Toxicology. *Washington, DC Natl Acad Press.* 2000. doi:10.17226/9871
83. WHO. *Exposure to Mercury: A Major Public Health Concern.*; 2006. doi:10.1016/j.ecoenv.2011.12.007
84. Ruggieri F, Majorani C, Domanico F, Alimonti A. Mercury in children: Current state on exposure through human biomonitoring studies. *Int J Environ Res Public Health.* 2017. doi:10.3390/ijerph14050519
85. Li R, Wu H, DIng J, Fu W, Gan L, Li Y. Mercury pollution in vegetables, grains and soils from areas surrounding coal-fired power plants. *Sci Rep.* 2017;7(October 2016):1-9. doi:10.1038/srep46545
86. Fernández C, de Salles AA, Sears ME, Morris RD, Davis DL. Absorption of wireless radiation in the child versus adult brain and eye from cell phone conversation or virtual reality. *Environ Res.* 2018. doi:10.1016/j.envres.2018.05.013
87. Pall ML. Wi-Fi is an important threat to human health ☆. *Environ Res.* 2018;164(January):405-416. doi:10.1016/j.envres.2018.01.035

88. Bellieni C V. *Fetal and Neonatal Effects of EMF.*; 2012.
<http://www.emfs.info/Related+Issues/limits/>. Accessed September 26, 2020.
89. Johansson O. Disturbance of the immune system by electromagnetic fields-A potentially underlying cause for cellular damage and tissue repair reduction which could lead to disease and impairment. *Pathophysiology*. 2009. doi:10.1016/j.pathophys.2009.03.004
90. Santini MT, Rainaldi G, Indovina PL. Cellular effects of extremely low frequency (ELF) electromagnetic fields. *Int J Radiat Biol*. 2009. doi:10.1080/09553000902781097
91. Rosado MM, Simkó M, Mattsson M-O, Pioli C. Immune-Modulating Perspectives for Low Frequency Electromagnetic Fields in Innate Immunity. *Front Public Heal*. 2018. doi:10.3389/fpubh.2018.00085
92. Li DK, Chen H, Odouli R. Maternal exposure to magnetic fields during pregnancy in relation to the risk of asthma in offspring. *Arch Pediatr Adolesc Med*. 2011. doi:10.1001/archpediatrics.2011.135
93. Haghani M, Shabani M, Moazzami K. Maternal mobile phone exposure adversely affects the electrophysiological properties of Purkinje neurons in rat offspring. *Neuroscience*. 2013. doi:10.1016/j.neuroscience.2013.07.049
94. Şahin A, Aslan A, Baş O, et al. Deleterious impacts of a 900-MHz electromagnetic field on hippocampal pyramidal neurons of 8-week-old Sprague Dawley male rats. *Brain Res*. 2015. doi:10.1016/j.brainres.2015.07.042
95. Tang J, Zhang Y, Yang L, et al. Exposure to 900 MHz electromagnetic fields activates the mkp-1/ERK pathway and causes blood-brain barrier damage and cognitive impairment in rats. *Brain Res*. 2015. doi:10.1016/j.brainres.2015.01.019
96. Bellieni C V., Pinto I, Bogi A, Zoppetti N, Andreuccetti D, Buonocore G. Exposure to electromagnetic fields from laptop use of “laptop” computers. *Arch Environ Occup Heal*. 2012. doi:10.1080/19338244.2011.564232
97. Goldstein BD. The precautionary principle also applies to public health actions. *Am J Public Health*. 2001. doi:10.2105/AJPH.91.9.1358