

## REFERENCES

1. Anatolitou, F., 2012. Human milk benefits and breastfeeding. *Journal of Pediatric and Neonatal Individualized Medicine*, 1(1), pp.11-18.
2. Andreas, N., Kampmann, B. and Mehring Le-Doare, K., 2015. Human breast milk: A review on its composition and bioactivity. *Early Human Development*, 91(11), pp.629-635.
3. Ballard, O. and Morrow, A., 2013. Human Milk Composition. *Pediatric Clinics of North America*, 60(1), pp.49-74.
4. Bergmann, M., Caubet, J., Boguniewicz, M. and Eigenmann, P., 2013. Evaluation of Food Allergy in Patients with Atopic Dermatitis. *The Journal of Allergy and Clinical Immunology: In Practice*, 1(1), pp.22-28.
5. Bernardo, Horta, Cesar, Victora and World Health Organization, 2013. Long-term effects of breastfeeding: a systematic review. *World Health Organization*. <https://apps.who.int/iris/handle/10665/79198>
6. Binns, C., Lee, M. and Low, W., 2016. The Long-Term Public Health Benefits of Breastfeeding. *Asia Pacific Journal of Public Health*, 28(1), pp.7-14.
7. Cacho, N. and Lawrence, R., 2017. Innate Immunity and Breast Milk. *Frontiers in Immunology*, 8.
8. Caffarelli, C., Dondi, A., Povesi Dascola, C. and Ricci, G., 2013. Skin prick test to foods in childhood atopic eczema: pros and cons. *Italian Journal of Pediatrics*, 39(1), p.48.
9. Celakovská, J. and Bukač, J., 2016. The severity of atopic dermatitis evaluated with the SCORAD index and the occurrence of bronchial asthma and rhinitis, and the duration of atopic dermatitis. *Allergy & Rhinology*, 7(1), pp.8-13.
10. Dogaru, C., Nyffenegger, D., Pescatore, A., Spycher, B. and Kuehni, C., 2014. Breastfeeding and Childhood Asthma: Systematic Review and Meta-Analysis. *American Journal of Epidemiology*, 179(10), pp.1153-1167.
11. Ek, W., Karlsson, T., Hernández, C., Rask-Andersen, M. and Johansson, Å., 2017. Breast-feeding and risk of asthma, hay fever, and eczema. *Journal of Allergy and Clinical Immunology*, 141(3), pp.1157-1159.e9.
12. Ferraro, V., Zanconato, S. and Carraro, S., 2019. Timing of Food Introduction and the Risk of Food Allergy. *Nutrients*, 11(5), p.1131.
13. Ferreira, M., Vonk, J., Baurecht, H., Marenholz, I., Tian, C., Hoffman, J., Helmer, Q., Tillander, A., Ullemar, V., van Dongen, J., Lu, Y., Rüschenhoff, F., Esparza-Gordillo, J., Medway, C., Mountjoy, E., Burrows, K., Hummel, O., Grosche, S., Brumpton, B., Witte, J., Hottenga, J., Willemsen, G., Zheng, J., Rodríguez, E., Hotze, M., Franke, A.,

- Revez, J., Beesley, J., Matheson, M., Dharmage, S., Bain, L., Fritsche, L., Gabrielsen, M., Balliu, B., Nielsen, J., Zhou, W., Hveem, K., Langhammer, A., Holmen, O., Løset, M., Abecasis, G., Willer, C., Arnold, A., Homuth, G., Schmidt, C., Thompson, P., Martin, N., Duffy, D., Novak, N., Schulz, H., Karrasch, S., Gieger, C., Strauch, K., Melles, R., Hinds, D., Hübner, N., Weidinger, S., Magnusson, P., Jansen, R., Jorgenson, E., Lee, Y., Boomsma, D., Almqvist, C., Karlsson, R., Koppelman, G. and Paternoster, L., 2017. Shared genetic origin of asthma, hay fever and eczema elucidates allergic disease biology. *Nature Genetics*, 49(12), pp.1752-1757.
14. Guideline: protecting, promoting and supporting breastfeeding in facilities providing maternity and newborn services. Geneva: World Health Organization; 2017. Licence: CC BY-NC-SA 3.0 IGO.
  15. Güngör, D., Nadaud, P., LaPergola, C., Dreibelbis, C., Wong, Y., Terry, N., Abrams, S., Beker, L., Jacobovits, T., Järvinen, K., Nommsen-Rivers, L., O'Brien, K., Oken, E., Pérez-Escamilla, R., Ziegler, E. and Spahn, J., 2019. Infant milk-feeding practices and food allergies, allergic rhinitis, atopic dermatitis, and asthma throughout the life span: a systematic review. *The American Journal of Clinical Nutrition*, 109(Supplement\_1), pp.772S-799S.
  16. Hanifin, J.M. and Rajka, G., 1980. Diagnostic features of atopic dermatitis. *Acta Derm Venereol Suppl (Stockh)*, 92, pp.44-47.
  17. Health Office of Yogyakarta City, 2019. *Profil Kesehatan 2019 Kota Yogyakarta (Data Tahun 2018)*, Yogyakarta.
  18. Heinrich, J., Koletzko, B. and Koletzko, S., 2014. Timing and diversity of complementary food introduction for prevention of allergic diseases. How early and how much?. *Expert Review of Clinical Immunology*, 10(6), pp.701-704.
  19. Hill, D. and Spergel, J., 2018. The atopic march. *Annals of Allergy, Asthma & Immunology*, 120(2), pp.131-137.
  20. Ip S, Chung M, Raman G, et al. Breastfeeding and Maternal and Infant Health Outcomes in Developed Countries. Rockville (MD): Agency for Healthcare Research and Quality (US); 2007 Apr. (Evidence Reports/Technology Assessments, No. 153.) Available from: <https://www.ncbi.nlm.nih.gov/books/NBK38337/>
  21. Johnson, B., Franco, A., Beck, L. and Prezzano, J., 2019. <p>Treatment resistant atopic dermatitis: challenges and solutions</p>. *Clinical, Cosmetic and Investigational Dermatology*, Volume 12, pp.181-192.
  22. Jordaan, H., Todd, G., Sinclair, W. and Green, R., 2014. Aetiopathogenesis of atopic dermatitis. *South African Medical Journal*, 104(10), p.706.
  23. Kabaran, S., 2018. Maternal and Child Nutrition: Importance of the First 1000 Days. *International Journal of Clinical Nutrition & Dietetics*, 4(2).

24. Kelompok Studi Dermatologi Anak Indonesia PERDOSKI. 2014. Panduan Diagnosis dan Tatalaksana Dermatitis Atopik di Indonesia.pdf. 3(1):59.
25. Khaleva, E., Gridneva, Z., Geddes, D., Oddy, W., Colicino, S., Blyuss, O., Boyle, R., Warner, J. and Munblit, D., 2019. Transforming growth factor beta in human milk and allergic outcomes in children: A systematic review. *Clinical & Experimental Allergy*, 49(9), pp.1201-1213.
26. Kim, J., Chao, L., Simpson, E. and Silverberg, J., 2016. Persistence of atopic dermatitis (AD): A systematic review and meta-analysis. *Journal of the American Academy of Dermatology*, 75(4), pp.681-687.e11.
27. Kim, J., Kim, B. and Leung, D., 2019. Pathophysiology of atopic dermatitis: Clinical implications. *Allergy and Asthma Proceedings*, 40(2), pp.84-92.
28. Kim, J., Kwon, J., Noh, G. and Lee, S., 2013. The effects of elimination diet on nutritional status in subjects with atopic dermatitis. *Nutrition Research and Practice*, 7(6), p.488.
29. Klose, C. and Artis, D., 2016. Innate lymphoid cells as regulators of immunity, inflammation and tissue homeostasis. *Nature Immunology*, 17(7), pp.765-774.
30. Kramer, M., Chalmers, B., Hodnett, E., Sevkovskaya, Z., Dzikovich, I., Shapiro, S., Collet, J., Vanilovich, I., Mezen, I., Ducruet, T., Shishko, G., Zubovich, V., Mknuk, D., Gluchanina, E., Dombrovskiy, V., Ustinovitch, A., Kot, T., Bogdanovich, N., Ovchinikova, L., Helsing, E. and for the PROBIT Study Group, 2001. Promotion of Breastfeeding Intervention Trial (PROBIT). *JAMA*, 285(4), p.413.
31. Kramer, M.S., Kakuma, R., 2012. Optimal duration of exclusive breastfeeding. *Cochrane Database Syst. Rev.* 1, CD003517.
32. Kramer, M.S., Matush, L., Vanilovich, I., Platt, R.W., Bogdanovich, N., Sevkovskaya, Z., Dzikovich, I., Shishko, G., Collet, J.P., Martin, R.M., Davey, S.G., Gillman, M.W., Chalmers, B., Hodnett, E., Shapiro, S., 2007b. Effects of prolonged and exclusive breastfeeding on child height, weight, adiposity, and blood pressure at age 6.5 y: evidence from a large randomized trial. *Am. J. Clin. Nutr.* 86, 1717–1721.
33. Lau, S., Matricardi, P., Wahn, U., Lee, Y. and Keil, T., 2019. Allergy and atopy from infancy to adulthood. *Annals of Allergy, Asthma & Immunology*, 122(1), pp.25-32.
34. Lodge, C., Tan, D., Lau, M., Dai, X., Tham, R., Lowe, A., Bowatte, G., Allen, K. and Dharmage, S., 2015. Breastfeeding and asthma and allergies: a systematic review and meta-analysis. *Acta Paediatrica*, 104, pp.38-53.
35. Marenholz, I., Kerscher, T., Bauerfeind, A., Esparza-Gordillo, J., Nickel, R., Keil, T., Lau, S., Rohde, K., Wahn, U. and Lee, Y., 2009. An interaction between filaggrin mutations and early food sensitization improves the prediction of childhood asthma. *Journal of Allergy and Clinical Immunology*, 123(4), pp.911-916.

36. Miliku, K. and Azad, M., 2018. Breastfeeding and the Developmental Origins of Asthma: Current Evidence, Possible Mechanisms, and Future Research Priorities. *Nutrients*, 10(8), p.995.
37. Minniti, F., Comberiati, P., Munblit, D., Piacentini, G., Antoniazzi, E., Zanoni, L., Boner, A. and Peroni, D., 2014. Breast-Milk Characteristics Protecting Against Allergy. *Endocrine, Metabolic & Immune Disorders-Drug Targets*, 14(1), pp.9-15.
38. Munblit, D. and Verhasselt, V., 2016. Allergy prevention by breastfeeding. *Current Opinion in Allergy and Clinical Immunology*, 16(5), pp.427-433.
39. Munblit, D., Peroni, D., Boix-Amorós, A., Hsu, P., Land, B., & Gay, M. et al. (2017). Human Milk and Allergic Diseases: An Unsolved Puzzle. *Nutrients*, 9(8), 894. <https://doi.org/10.3390/nu9080894>
40. Nutten, S., 2015. Atopic Dermatitis: Global Epidemiology and Risk Factors. *Annals of Nutrition and Metabolism*, 66(1), pp.8-16.
41. Oddy, W. and Rosales, F., 2010. A systematic review of the importance of milk TGF- $\beta$  on immunological outcomes in the infant and young child. *Pediatric Allergy and Immunology*, 21(1-Part-I), pp.47-59.
42. Oddy, W., 2017. Breastfeeding, Childhood Asthma, and Allergic Disease. *Annals of Nutrition and Metabolism*, 70(2), pp.26-36.
43. Odhiambo, J., Williams, H., Clayton, T., Robertson, C. and Asher, M., 2009. Global variations in prevalence of eczema symptoms in children from ISAAC Phase Three. *Journal of Allergy and Clinical Immunology*, 124(6), pp.1251-1258.e23.
44. Paller, A., Kong, H., Seed, P., Naik, S., Scharschmidt, T., Gallo, R., Luger, T. and Irvine, A., 2019. The microbiome in patients with atopic dermatitis. *Journal of Allergy and Clinical Immunology*, 143(1), pp.26-35.
45. Paller, A., Spergel, J., Mina-Osorio, P. and Irvine, A., 2019. The atopic march and atopic multimorbidity: Many trajectories, many pathways. *Journal of Allergy and Clinical Immunology*, 143(1), pp.46-55.
46. Palmeira, P. and Carneiro-Sampaio, M., 2016. Immunology of breast milk. *Revista da Associação Médica Brasileira*, 62(6), pp.584-593.
47. Pietrobelli, A. and Agosti, M., 2017. Nutrition in the First 1000 Days: Ten Practices to Minimize Obesity Emerging from Published Science. *International Journal of Environmental Research and Public Health*, 14(12), p.1491.
48. Rajani, P., Seppo, A. and Järvinen, K., 2018. Immunologically Active Components in Human Milk and Development of Atopic Disease, With Emphasis on Food Allergy, in the Pediatric Population. *Frontiers in Pediatrics*, 6.
49. Ravnborg, N., Ambikaibalan, D., Agnihotri, G., Price, S., Rastogi, S., Patel, K., Singam, V., Andersen, Y., Halling, A., Silverberg, J., Egeberg, A. and Thyssen, J.,

2020. Prevalence of asthma in patients with atopic dermatitis: a systematic review and meta-analysis. *Journal of the American Academy of Dermatology*,.
50. Renz, H., Brandtzaeg, P. and Hornef, M., 2011. The impact of perinatal immune development on mucosal homeostasis and chronic inflammation. *Nature Reviews Immunology*, 12(1), pp.9-23.
51. Saavedra, J. and Dattilo, A., 2017. Nutrition in the First 1000 Days of Life: Society's Greatest Opportunity. This manuscript serves as the introduction to the book: Early nutrition and long-term health: Mechanisms, consequences, and opportunities. J. Saavedra & A. Dattilo (Eds.), Elsevier, Oxford. *Early Nutrition and Long-Term Health*, p.xxxv-xliv.
52. Savilahti, E., Siltanen, M., Kajosaari, M., Vaarala, O. and Saarinen, K., 2005. IgA Antibodies, TGF- $\beta$ 1 and - $\beta$ 2, and Soluble CD14 in the Colostrum and Development of Atopy by Age 4. *Pediatric Research*, 58(6), pp.1300-1305.
53. Schneider, L., Hanifin, J., Boguniewicz, M., Eichenfield, L., Spengel, J., Dakovic, R. and Paller, A., 2016. Study of the Atopic March: Development of Atopic Comorbidities. *Pediatric Dermatology*, 33(4), pp.388-398.
54. Silverberg, J., 2019. Comorbidities and the impact of atopic dermatitis. *Annals of Allergy, Asthma & Immunology*, 123(2), pp.144-151.
55. Simpson, E., 2012. Comorbidity in Atopic Dermatitis. *Current Dermatology Reports*, 1(1), pp.29-38.
56. Sipahi, S., Nacaroglu, H., Can, D., Gunay, I., Unsul-Karkiner, C., Kamali, H., Ozdemir, A. and Gunay, T., 2017. Effect of socioeconomic status on allergic diseases and atopy in school children. *The Turkish Journal of Pediatrics*, 59(6), p.670.
57. Soto-Ramirez, N., Boyd, K., Zhang, H., Gangur, V., Goetzl, L. and Karmaus, W., 2016. Maternal serum but not breast milk IL-5, IL-6, and IL-13 immune markers are associated with scratching among infants. *Allergy, Asthma & Clinical Immunology*, 12(1).
58. Soto-Ramirez, N., Karmaus, W., Yousefi, M., Zhang, H., Liu, J. and Gangur, V., 2012. Maternal immune markers in serum during gestation and in breast milk and the risk of asthma-like symptoms at ages 6 and 12 months: a longitudinal study. *Allergy, Asthma & Clinical Immunology*, 8(1), p.11.
59. Strachan, D., Ait-Khaled, N., Foliaki, S., Mallol, J., Odhiambo, J., Pearce, N. and Williams, H., 2014. Siblings, asthma, rhinoconjunctivitis and eczema: a worldwide perspective from the International Study of Asthma and Allergies in Childhood. *Clinical & Experimental Allergy*, 45(1), pp.126-136.

60. Ullemar, V., Magnusson, P., Lundholm, C., Zettergren, A., Melén, E., Lichtenstein, P. and Almqvist, C., 2015. Heritability and confirmation of genetic association studies for childhood asthma in twins. *Allergy*, 71(2), pp.230-238.
61. UNICEF and World Health Organization, 2003. *Global Strategy For Infant And Young Child Feeding*. Geneva: World Health Organization.
62. UNICEF. 2018. *Improving Breastfeeding, Complementary Foods And Feeding Practices*. [online] Available at: [https://www.unicef.org/nutrition/index\\_breastfeeding.html](https://www.unicef.org/nutrition/index_breastfeeding.html) [Accessed 25 March 2020].
63. Vandenplas, Y., 2017. Prevention and Management of Cow's Milk Allergy in Non-Exclusively Breastfed Infants. *Nutrients*, 9(7), p.731.
64. Vass, R., Kemeny, A., Dergez, T., Ertl, T., Reglodi, D., Jungling, A. and Tamas, A., 2019. Distribution of bioactive factors in human milk samples. *International Breastfeeding Journal*, 14(1).
65. Vergilio Visentainer, J., Oliveira Santos, O., Maldaner, L., Zappiello, C., Neia, V., Visentainer, L., Pelissari, L., Pizzo, J., Rydlewski, A., Silveira, R., Galuch, M. and Visentainer, J., 2018. Lipids and Fatty Acids in Human Milk: Benefits and Analysis. *Biochemistry and Health Benefits of Fatty Acids*,.
66. von Kobyletzki, L., Bornehag, C., Hasselgren, M., Larsson, M., Lindström, C. and Svensson, Å., 2012. Eczema in early childhood is strongly associated with the development of asthma and rhinitis in a prospective cohort. *BMC Dermatology*, 12(1).
67. Wesemann, D. and Nagler, C., 2016. The Microbiome, Timing, and Barrier Function in the Context of Allergic Disease. *Immunity*, 44(4), pp.728-738.
68. Williams, H., Stewart, A., von Mutius, E., Cookson, W. and Anderson, H., 2008. Is eczema really on the increase worldwide?. *Journal of Allergy and Clinical Immunology*, 121(4), pp.947-954.e15.
69. Yamamoto-Hanada, K., Kobayashi, T., Williams, H., Mikami, M., Saito-Abe, M., Morita, K., Natsume, O., Sato, M., Iwama, M., Miyaji, Y., Miyata, M., Inagaki, S., Tatsuki, F., Masami, N., Nakayama, S., Kido, H., Saito, H. and Ohya, Y., 2018. Early aggressive intervention for infantile atopic dermatitis to prevent development of food allergy: a multicenter, investigator-blinded, randomized, parallel group controlled trial (PACI Study)—protocol for a randomized controlled trial. *Clinical and Translational Allergy*, 8(1).
70. Young, B., 2017. Breastfeeding and Human Milk: Short and Long-Term Health Benefits to the Recipient Infant. *Early Nutrition and Long-Term Health*, pp.25-53.