Confronting the Allergic March

Bibliography

American Academy of Pediatrics (AAP) Committee on Nutrition. Hypoallergenic infant formulas. *Pediatrics.* 2000;106(2 Pt 1):346-349.

Asthma and Allergy Foundation of America (AAFA). The allergic or atopic march. June 2022. https://aafa.org/allergies/living-with-allergies/allergic-march/

Asthma and Allergy Foundation of America (AAFA). Formula options for kids with food allergies. September 2020. https://kidswithfoodallergies.org/recipes-diet/nutrition-and-health/formula-options-for-kids-with-food-allergies/

Augustine T, Kumar M, Al Khodor S, van Panhuys N. Microbial dysbiosis tunes the immune response towards allergic disease outcomes. *Clin Rev Allergy Immunol.* 2023;65(1):43-71. doi:10.1007/s12016-022-08939-9

Australasian Society of Clinical Immunology and Allergy (ASCIA). Guide for milk substitutes in cow's milk allergy. 2023. https://www.allergy.org.au/hp/papers/guide-for-milk-substitutes-cows-milk-allergy

Australasian Society of Clinical Immunology and Allergy (ASCIA). Position paper - oral immunotherapy for food allergy. June 2023. https://www.allergy.org.au/hp/papers/ascia-oral-immunotherapy-for-food-allergy

Barrera EL, Ramirez-Farias C, Marriage BJ. Nutritional management of cow's milk allergy in infants: a comparison of DRACMA, ESPGHAN, and AAP guidelines. *Open Nutr J*. 2021;15:1-9. doi:10.2174/1874288202115010001

Berni Canani R, Di Costanzo M, Bedogni G, et al. Extensively hydrolyzed casein formula containing Lactobacillus rhamnosus GG reduces the occurrence of other allergic manifestations in children with cow's milk allergy: 3-year randomized controlled trial. *J Allergy Clin Immunol.* 2017;139(6):1906-1913.e4. doi:10.1016/j.jaci.2016.10.050

Brozek JL, Firmino RT, Bognanni A, et al. World Allergy Organization (WAO) Diagnosis and Rationale for Action against Cow's Milk Allergy (DRACMA) Guideline update - XIV - recommendations on CMA immunotherapy. *World Allergy Organ J.* 2022;15(4):100646. doi:10.1016/j.waojou.2022.100646

Bunyavanich S, Berin MC. Food allergy and the microbiome: current understandings and future directions. *J Allergy Clin Immunol.* 2019;144(6):1468-1477. doi:10.1016/j.jaci.2019.10.019

Chua GT, Chan ES, Yeung J, et al. Patient selection for milk and egg ladders using a food ladder safety checklist. *Allergy Asthma Clin Immunol.* 2022;18(1):51. doi:10.1186/s13223-022-00696-w

de Jong NW, van Splunter ME, Emons JAM, et al. Introduction of heated cow's milk protein in challenge-proven cow's milk allergic children: the iAGE study. *Nutrients.* 2022;14(3):629. doi:10.3390/nu14030629

Dias JA, Santos E, Asseiceira I, Jacob S, Koninckx CR. The role of infant formulas in the primary prevention of allergies in non-breastfed infants at risk of developing allergies—recommendations from a multidisciplinary group of experts. *Nutrients.* 2022;14(19):4016. doi:10.3390/nu14194016

Dramburg S, Hilger C, Santos AF, et al. EAACI molecular allergology user's guide 2.0. *Pediatr Allergy Immunol.* 2023;34 Suppl 28:e13854. doi:10.1111/pai.13854

Fasano A. Intestinal permeability and its regulation by zonulin: diagnostic and therapeutic implications. *Clin Gastroenterol Hepatol.* 2012;10(10):1096-1100. doi:10.1016/j.cgh.2012.08.012

Fasano A. Leaky gut and autoimmune diseases. *Clin Rev Allergy Immunol.* 2012;42(1):71-78. doi:10.1007/s12016-011-8291-x

Fiocchi A, Bognanni A, Brożek J, Ebisawa M, Schünemann H; WAO DRACMA guideline group. World Allergy Organization (WAO) Diagnosis and Rationale for Action against Cow's Milk Allergy (DRACMA) Guidelines update - I - plan and definitions. *World Allergy Organ J.* 2022;15(1):100609. doi:10.1016/j.waojou.2021.100609

Fox A, Brown T, Walsh J, et al. An update to the Milk Allergy in Primary Care guideline. *Clin Transl Allergy.* 2019;9:40. doi:10.1186/s13601-019-0281-8

Gabryszewski SJ, Hill DA. One march, many paths: insights into allergic march trajectories. *Ann Allergy Asthma Immunol.* 2021;127(3):293-300. doi:10.1016/j.anai.2021.04.036

Godwin L et al. Biochemistry, immunoglobulin E. September 24, 2022. https://www.ncbi.nlm.nih.gov/books/NBK541058/

Confronting the Allergic March

Greer FR, Sicherer SH, Burks AW; Committee on Nutrition; Section on Allergy and Immunology. The effects of early nutritional interventions on the development of atopic disease in infants and children: the role of maternal dietary restriction, breastfeeding, hydrolyzed formulas, and timing of introduction of allergenic complementary foods. *Pediatrics.* 2019;143(4):e20190281. doi:10.1542/peds.2019-0281

Gu S, Yang D, Liu C, Xue W. The role of probiotics in prevention and treatment of food allergy. *Food Sci Hum Wellness.* 2023;12(3):681-690. doi:10.1016/j.fshw.2022.09.001

Gupta RS, Warren CM, Smith BM, et al. The public health impact of parent-reported childhood food allergies in the United States. *Pediatrics.* 2018;142(6):e20181235. doi:10.1542/peds.2018-1235

Halken S, Muraro A, de Silva D, et al. EAACI guideline: preventing the development of food allergy in infants and young children (2020 update). *Pediatr Allergy Immunol.* 2021;32(5):843-858. doi:10.1111/pai.13496

Hayden J, d'Art Y, Byrne A, Van Ree R, O'B Hourihane J. Infants with higher baseline spIgE to cow's milk make less progress on ladder-based tolerance induction programs. *J Allergy Clin Immunol.* 2023;151(2 suppl):AB4.

Hill C, Guarner F, Reid G, et al. Expert consensus document. The International Scientific Association for Probiotics and Prebiotics consensus statement on the scope and appropriate use of the term probiotic. *Nat Rev Gastroenterol Hepatol.* 2014;11(8):506-514. doi:10.1038/nrgastro.2014.66

Jensen SA, Fiocchi A, Baars T, et al. Diagnosis and Rationale for Action against Cow's Milk Allergy (DRACMA) Guidelines update - III - cow's milk allergens and mechanisms triggering immune activation. *World Allergy Organ J.* 2022;15(9):100668. doi:10.1016/j.waojou.2022.100668

Kawada S, Futamura M, Hashimoto H, et al. Association between sites and severity of eczema and the onset of cow's milk and egg allergy in children. PLOS One. 2020;15(10):e0240980. doi:10.1371/journal.pone.0240980

Koletzko S, Niggemann B, Arato A, et al. Diagnostic approach and management of cow's-milk protein allergy in infants and children: ESPGHAN GI Committee practical guidelines. *J Pediatr Gastroenterol Nutr.* 2012;55(2):221-229. doi:10.1097/MPG.0b013e31825c9482

Kopp MV, Muche-Borowski C, Abou-Dakn M, et al. S3 guideline allergy prevention. *Allergol Select.* 2022;6:61-97. doi:10.5414/ALX02303E

Lachover-Roth I, Cohen-Engler A, Furman Y, et al. Early, continuing exposure to cow's milk formula and cow's milk allergy: the COMEET study, a single center, prospective interventional study. *Ann Allergy Asthma Immunol.* 2023;130(2):233-239.e4. doi:10.1016/j.anai.2022.10.013

Li Y, Ren L, Wang Y, et al. The effect of breast milk microbiota on the composition of infant gut microbiota: a cohort study. *Nutrients.* 2022;14(24):5397. doi:10.3390/nu14245397

Luyt D, Ball H, Makwana N, et al. BSACI guideline for the diagnosis and management of cow's milk allergy. *Clin Exp Allergy.* 2014;44(5):642-672. doi:10.1111/cea.12302

Lv H, Wang Y, Gao Z, et al. Knowledge mapping of the links between the microbiota and allergic diseases: a bibliometric analysis (2002-2021). *Front Immunol.* 2022;13:1045795. doi:10.3389/fimmu.2022.1045795

Maiello N, Comberiati P, Giannetti A, Ricci G, Carello R, Galli E. New directions in understanding atopic march starting from atopic dermatitis. *Children (Basel)*. 2022;9(4):450

Matricardi PM, Kleine-Tebbe J, Hoffmann HJ, et al. EAACI molecular allergology user's guide. *Pediatr Allergy Immunol.* 2016;27 Suppl 23:1-250. doi:10.1111/pai.12563

Meek JY, Noble L; Section on Breastfeeding. Policy statement: breastfeeding and the use of human milk. *Pediatrics.* 2022;150(1):e2022057988. doi:10.1542/peds.2022-057988

Milani C, Duranti S, Bottacini F, et al. The first microbial colonizers of the human gut: composition, activities, and health implications of the infant gut microbiota. *Microbiol Mol Biol Rev.* 2017;81(4):e00036-17. doi:10.1128/MMBR.00036-17

Moriki D, Francino MP, Koumpagioti D, et al. The role of the gut microbiome in cow's milk allergy: a clinical approach. *Nutrients.* 2022;14(21):4537. doi:10.3390/nu14214537d

Confronting the Allergic March

Munblit D, Perkin MR, Palmer DJ, Allen KJ, Boyle RJ. Assessment of evidence about common infant symptoms and cow's milk allergy. *JAMA Pediatr.* 2020;174(6):599-608. doi:10.1001/jamapediatrics.2020.0153

Nance CL, Deniskin R, Diaz VC, Paul M, Anvari S, Anagnostou A. The role of the microbiome in food allergy: a review. *Children (Basel).* 2020;7(6):50. doi:10.3390/children7060050

Nocerino R, Di Costanzo M, Bedogni G, et al. Dietary treatment with extensively hydrolyzed casein formula containing the probiotic Lactobacillus rhamnosus GG prevents the occurrence of functional gastrointestinal disorders in children with cow's milk allergy. *J Pediatr.* 2019;213:137-142.e2. doi:10.1016/j.jpeds.2019.06.004

Nuñez-Borque E, Fernandez-Bravo S, Yuste-Montalvo A, Esteban V. Pathophysiological, cellular, and molecular events of the vascular system in anaphylaxis. *Front Immunol.* 2022;13:836222. doi:10.3389/fimmu.2022.836222

Nuzzi G, Di Cicco ME, Peroni DG. Breastfeeding and allergic diseases: what's new? *Children (Basel).* 2021;8(5):330. doi:10.3390/children8050330

Sakihara T, Otsuji K, Arakaki Y, Hamada K, Sugiura S, Ito K. Early Discontinuation of Cow's Milk Protein Ingestion Is Associated with the Development of Cow's Milk Allergy. *J Allergy Clin Immunol Pract.* 2022;10(1):172-179. doi:10.1016/j.jaip.2021.07.053

Sakihara T, Otsuji K, Arakaki Y, Hamada K, Sugiura S, Ito K. Randomized trial of early infant formula introduction to prevent cow's milk allergy. *J Allergy Clin Immunol.* 2021;147(1):224-232.e8. doi:10.1016/j.jaci.2020.08.021

Sardecka I, Łoś-Rycharska E, Ludwig H, Gawryjołek J, Krogulska A. Early risk factors for cow's milk allergy in children in the first year of life. *Allergy Asthma Proc.* 2018;39(6):e44-e54. doi:10.2500/aap.2018.39.4159

Sturgeon C, Fasano A. Zonulin, a regulator of epithelial and endothelial barrier functions, and its involvement in chronic inflammatory diseases. *Tissue Barriers.* 2016;4(4):e1251384. doi:10.1080/21688370.2016.1251384

Tsuge M, Ikeda M, Matsumoto N, Yorifuji T, Tsukahara H. Current insights into atopic march. *Children (Basel).* 2021;8(11):1067. doi:10.3390/children8111067

Venter C, Brown T, Meyer R, et al. Better recognition, diagnosis and management of non-IgE-mediated cow's milk allergy in infancy: iMAP-an international interpretation of the MAP (Milk Allergy in Primary Care) guideline. *Clin Transl Allergy.* 2017;7:26. doi:10.1186/s13601-017-0162-y

Vincent R, MacNeill SJ, Marrs T, et al. Frequency of guideline-defined cow's milk allergy symptoms in infants: secondary analysis of EAT trial data. *Clin Exp Allergy.* 2022;52(1):82-93. doi:10.1111/cea.14060

Wang J, Zhou Y, Zhang H, et al. Pathogenesis of allergic diseases and implications for therapeutic interventions. *Signal Transduct Target Ther.* 2023;8(1):138. doi:10.1038/s41392-023-01344-4

Xiong Y, Xu G, Chen M, Ma H. Intestinal uptake and tolerance to food antigens. *Front Immunol.* 2022;13:906122. doi:10.3389/fimmu.2022.906122

Yang L, Fu J, Zhou Y. Research progress in atopic march. *Front Immunol.* 2020;11:1907. doi:10.3389/fimmu.2020.01907

Yao Y, Cai X, Ye Y, Wang F, Chen F, Zheng C. The role of microbiota in infant health: from early life to adulthood. *Front Immunol.* 2021;12:708472. doi:10.3389/fimmu.2021.708472

Zablotsky B, Black LI, Akinbami LJ. Diagnosed allergic conditions in children aged 0–17 years: United States, 2021. *NCHS Data Brief.* 2023;(459):1-8. https://www.cdc.gov/nchs/data/databriefs/db459.pdf

Zahran HS, Bailey CM, Damon SA, Garbe PL, Breysse PN. Vital Signs: asthma in children - United States, 2001-2016. *MMWR Morb Mortal Wkly Rep.* 2018;67(5):149-155. doi:10.15585/mmwr.mm6705e1

Zhang JY, Zhou SM, Wang SH, et al. Risk factors for cow's milk protein allergy in infants: a multicenter survey. *Zhongguo Dang Dai Er Ke Za Zhi.* 2020;22(1):42-46. doi:10.7499/j.issn.1008-8830.2020.01.009

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