

In 2024, ~17 million people* in the United States are expected to have a diagnosed food allergy.¹⁻³ Data from the CDC shows that number is on the rise—particularly among children.^{4,5}

- 3.4 million children are expected to have confirmed diagnosis of food allergy*1-3
- Most prevalent in ages 12 to 17⁶
- Prevalence in children varies across ethnicities: Black (7.6%), Asian (6.6%), White (5.3%), and Hispanic (5.0%)⁶

*Population is based on 2024 projected census data.3

Roughly **4 in 10** adults and children with food allergy are **allergic to multiple foods** and report a lower quality of life compared to those with a single food allergy.^{7,8} In addition, accidental exposures are happening more frequently. Over a decade, ER visits due to food-related anaphylaxis **increased by 124%**.^{9†}

The atopic march: a temporal pattern for developing multiple allergic disorders¹⁰

Atopic march is the pattern of allergic disorders—from atopic dermatitis to asthma—that progresses over time starting in infancy. **Children with food allergies are 2 to 4 times more likely** to have other allergic conditions such as asthma and atopic dermatitis.¹⁰⁻¹²

Adverse food reaction classification¹³

Immune Mediated (Food Allergy and Celiac Disease)

lgE Mediated (eg, acute urticaria, oral allergy syndrome)

Mixed IgE and non-IgE (eg, atopic dermatitis, eosinophilic gastroenteritis) Non-IgE Mediated (eg, food protein-induced enteropathy, celiac disease) Cell Mediated (eg, allergic contact dermatitis) Metabolic, (eg, lactose intolerance) Pharmacologic, (eg, caffeine) Toxic (eg, scombroid

fish toxin)

ic, Idiopathic/ Undefined (eg, sulfites)

Other/

Non-Immune Mediated

(Primarily Food Intolerances)

Exposure to even a very small amount of allergenic foods can trigger clinical symptoms such as GI disorders, urticaria, and airway inflammation that range in severity from mild to life-threatening.¹⁴ Reactions can occur from exposure to food allergens via oral, skin, and respiratory routes.¹⁵

IgE-mediated and non IgE-mediated food allergies differ in their time to onset of reaction, typical symptoms, and common diagnostic procedures.¹⁰

†2005 to 2014 data from a national administrative claims database.9







The psychosocial and mental health burden of food allergies

Food allergies can have a profound effect on a family's daily life—disrupting aspects of day-to-day living both big and small. Research indicates there are mental health ramifications of living with food allergies including feelings of fear, depression, anxiety, post-traumatic stress, being bullied, and an overall poorer quality of life.¹⁹

The only sure way to avoid a reaction is through food avoidance, so patients and their families must remain constantly vigilant.¹⁷

Food avoidance can put major limitations on social and school activities, and children may feel different from peers because of dietary restrictions and safety precautions. As a child transitions to adolescence, food allergies become increasingly challenging and potentially dangerous.



- More than half of patients with multiple food allergies report feelings of anxiety from living with food allergies^{20*}
- One third of patients with multiple food allergies report feeling concerned about social isolation^{20*}
- Around half of families indicate food allergies affect family social activities^{11†}
- Mothers of children with food allergies report greater feelings of stress and anxiety compared to fathers¹⁶
- Some families relying on food banks feel stress due to the difficulty of obtaining allergen-free foods from the food bank²¹

Some consideration of food avoidance are accidental exposures and life-threatening reactions, limitations on social activities, dietary restrictions, and the need for constant vigilance and carrying epinephrine therapy at all times.¹⁷

*Based on data from a May 2017 to January 2021 survey of 1404 adult and <18-year-old patients with multiple food allergies.²⁰ *Based on data from a survey of 87 families of children with food allergies.¹¹







Managing patients with food allergies

To minimize recurrences of allergic reactions, prevent malnutrition due to food avoidance, and improve quality of life, managing food allergies requires a multidisciplinary approach that involves long-term management strategies and the treatment of acute episodes.²²

Food avoidance combined with the availability of rescue epinephrine is crucial in the management of food allergy. 11,18,22

However, effective food avoidance requires constant vigilance, training to read food labels, understanding cross-contamination, and often, paying higher food costs. Accidental exposures can still occur, which can lead to ER visits. 4,25

A consensus approach to prevention through nutrition

The following recommendations for food allergy prevention are not intended as medical advice but rather recommendations agreed upon by the AAAAI, ACAAI, and CSACI²⁶

- 1 Consider infants with severe eczema at the highest risk of developing food allergy. (Moderate*)
- 2 Introduce peanut-containing products to all infants starting around 6 months of life. (Strong†)
- 3 Introduce cooked egg or egg-containing products to all infants starting around 6 months of life. (Strong)
- 4 Do not deliberately delay the introduction of other potentially allergenic complementary foods (milk, soy, wheat, tree nuts, sesame, fish, crustacean shellfish) once introduction of complementary foods has commenced at around 6 months of life. (Moderate)
- 5 Upon introducing complementary foods, **infants should be fed a diverse diet**, as this may help foster prevention of food allergy. (Weak[‡])
- **6** Do not routinely prescribe or recommend the use of any hydrolyzed formula for the specific prevention of food allergy. (Strong)
- Women should not exclude common allergens during pregnancy and lactation as a means to prevent food allergy. (Weak)

References: 1. Gupta RS, Warren CM, Smith BM, et al. The public health impact of parent-reported childhood food allergies in the United States. *Pedatrics*: 2018;142(6):e20181235. doi:10.1542/peds.2018.3835.2. Gupta RS, Warren CM, Smith BM, et al. Prevalence and severity of food allergies among US adults. JAMA Netw Open. 2019;2(1):e1865803. doi:10.1001/jam.network.open.2018.5630.3. US. Census Bureau Population Division. Projected age groups and sex composition of the population: man projections series for the United States, 2017-2060. U.S. Census Bureau: Washington, D.C. Revised September 2018. Accessed November 6, 2023. https://www.2.census.gov/programs-surveys/popprol/bables/2017/2017-surmary-tables/hg2017-12.xisx. 4. Keet CA, Savage JH, Seogna JS, Peng RD, Wood RA, Matsu EC. Temporal trends and racial/ethnic disparity in self-reported prediate food allergy in the United States. Ann. Allergy Ashtma Immunol. 2014;112(3):222-229.93. doi:10.1016/j.anai.2013.12.007.5. Jackson NO, Howel DJ, Almicani LJ. Tends in allergic conditions among children. United States is a population between the Composition of the Control of Control of





^{*}Moderate recommendations are directly supported by at least one RCT, by at least one controlled study without randomization, or by nonexperimental descriptive studies. Clinicians should generally follow a moderate recommendation but should remain alert to new information and sensitive to patient preferences.

^{*}Strong recommendations are directly supported by at least one RCT, a meta-analysis of RCTs, or by a controlled study without randomization. Clinicians should follow a strong recommendation unless a clear and compelling rationale for an alternative approach is present.

^{*}Weak recommendations are supported either by suspect evidence, such as expert committee reports or opinions, or by well-done studies (RCTs, meta-analyses of RCTs, or nonexperimental descriptive studies,) that show little clear advantage to one approach vs another. Clinicians should be flexible in their decision-making regarding appropriate practice, although they may set bounds on alternatives; patient preference should have a substantial influencing role. AAAAI=American Academy of Allergy, Asthma, and Immunology; ACAAI=American College of Allergy, Asthma, and Immunology; CSACI=Canadian Society of Allergy and Clinical Immunology; RCT=randomized controlled trial.