

Referral Guidelines	Rationale	Evidence Type
1) Persons who have limited their diet based upon perceived adverse reactions to foods or additives	Following allergy evaluation, an estimated one third of perceived adverse reactions to foods, and a small fraction of adverse reactions to additives, are verified. ¹⁻³ Evaluation by an allergist/immunologist is likely to result in an individual's ability to liberalize their diet (thereby likely improving nutrition and quality of life).	Indirect outcome (avoiding unnecessary diet restriction)
2) Persons with a diagnosed food allergy	The allergist/immunologist can apply and interpret diagnostic tests (skin prick tests, serum food-specific IgE assay and oral food challenge and advise patients on dietary avoidance and emergency care measures. ^{1,4,5} These are important aspects of care because: 1) many allergies are not permanent and should be monitored for resolution ² , 2) avoidance of allergenic foods and action taken in the event of exposure are difficult to undertake, prone to errors and can be dangerous, thus mandating proper education. ^{6,7}	Diagnostic Indirect outcome (food avoidance, early pharmacologic treatment of reaction)
3) Atopic families with, or expecting, a newborn who are interested in identifying risks for, and preventing, allergy.	Family history is the strongest predictor of allergy. A sibling born to a family who already has a child with peanut allergy has the risk for developing that allergy this is more than 10 times greater than the general population. Specific guidelines are in place to approach potential allergy in a food-allergy prone child (e.g., breast-feeding, avoidance of allergenic foods). ^{8,9} Meta-analyses of studies shows breast feeding and avoidance of cow's milk/soy in the first year may reduce the risk for allergic disease. ^{10,11} The allergist/immunologist can evaluate the resist and explain possible approaches.	Diagnostic Indirect outcome (prevention of sensitization)
4) Persons who have experienced allergic symptoms (urticarial, angioedema, itch, wheezing, gastrointestinal responses) in association with food exposure.	The allergist/immunologist can perform diagnostic tests such as skin tests, serum IgE tests and oral food challenges to determine the cause of the reaction. ^{1,4,5,12-14}	Diagnostic Indirect outcome (food avoidance)
5) Persons who experience an itchy mouth from raw fruits and vegetables	These symptoms are typical of pollen-food allergy syndrome, or oral allergy syndrome, which can sometimes progress to, or overlap with, more severe allergic reactions. ^{15,16} The allergist/immunologist evaluates the reactions to determine the etiology and to advise which foods to avoid or not, identify other potential problematic foods, and assess risks for a severe reaction.	Diagnostic Indirect outcome (food avoidance)
6) Infants with recalcitrant gastroesophageal reflux or older individuals with recalcitrant reflux symptoms, particularly if they experience dysphagia.	Food allergy may be a cause of infantile reflux, and evaluation for food responsiveness is high (about 40%) for children in whom symptoms do not respond well to standard therapies. ¹⁷ Older individuals may have reflux symptoms and possibly dysphagia caused by eosinophilic esophagitis, and disorder that is also commonly food-responsive. ^{18,19}	Diagnostic Indirect outcome (food avoidance)

Referral Guidelines	Rationale	Evidence Type
7) Infants with gastrointestinal symptoms including vomiting, diarrhea (particularly with blood), poor growth, and/or malabsorption whose symptoms are otherwise unexplained, not responsive to medical management, and/or possibly food-responsive (even if screening allergy tests are negative).	There are a group of food-responsive gastrointestinal disorders of infancy (including food protein induced enteropathy, enterocolitis, proctocolitis) that may be diagnosed, treated and monitored with modalities with which allergist/immunologists are expert including elimination diets and oral food challenges. ^{4,20-23} Most of the disorders affecting infants cannot be identified with simple screening tests. ²⁰⁻²³	Diagnostic Indirect outcome (food avoidance)
8) Persons with known eosinophilic inflammation of the gut.	Eosinophilic gastroenteritis, esophagitis, and/or gastroenterocolitis may be food responsive. ^{18,19} Patients may improve following identification and elimination of casual foods, 19 modalities for which the allergist/immunologist is expert. ²⁴	Diagnostic Indirect outcome (food avoidance)

References:

- Bock SA. Prospective appraisal of complaints of adverse reactions to foods in children during the first 3 years of life. *Pediatrics* 1987; 79:683-8. Evidence grade: III
- Altman DR, Chiaramonte LT. Public perception of food allergy. *J Allergy Clin Immunol* 1996; 97(6):1247-51. Evidence grade: III
- Young E, Patel S, Stoneham MD, Rona R, Wilkinson JD. The prevalence of reactions to food additives in a survey population. *J R Coll Physicians Lond* 1987; 21:241-71. Evidence grade: III
- Allergy and Immunology Core Curriculum Outline 1996. Core Curriculum Subcommittee of the Training Program Directors. American Academy of Allergy, Asthma and Immunology. *J Allergy Clin Immunol* 1996; 98(6pt.1):1012-15, updated 2002 http://www.aaaai.org/professionals/careers/training_programs.stm Evidence grade: IV
- Sampson HA. Utility of food-specific IgE concentrations in predicting symptomatic food allergy. *J Allergy Clin Immunol* 2001; 107(5):891-6. Evidence grade: II
- Sicherer SH, Forman JA, Noone SA. Use assessment of self-administered epinephrine among food-allergic children and pediatricians. *Pediatrics* 2000; 105:359-62. Evidence grade: III
- Bock SA, Munoz-Furlong A, Sampson HA. Fatalities due to anaphylactic reactions to foods. *J Allergy Clin Immunol* 2001; 107(1):191-3. Evidence grade: III February, 2011
- American Academy of Pediatrics. Committee on Nutrition. Hypoallergenic infant formulas. *Pediatrics*. 2000; 106(2 Pt 1):346-9. Evidence grade: IV
- Muraro A., Dreborg S, Halken S, et al. Dietary prevention of allergic diseases in infants and small children. Part III: Critical review of published peer-reviewed observational and interventional studies and final recommendations. *Pediatr Allergy Immunol*. 2004;15(4):291-307. Evidence grade: IV
- Gdalevich M, Mimouni D, David M, Mimouni M. Breast-feeding and the onset of atopic dermatitis in childhood: a systematic review and metaanalysis of prospective studies. *J Am Acad Dermatol*. 2001;45:520-7. Evidence grade: Ia
- Osborn DA, Sinn J. Formulas containing hydrolysed protein for prevention of allergy and food intolerance in infants. *Cochrane Database Syst Rev*. 2003; 4:CD003664. Evidence grade: Ia
- Eigenmann PA, Sampson HA. Interpreting skin prick tests in the evaluation of food allergy in children. *Pediatr Allergy Immunol* 1998; 9(4):186-91. Evidence grade: III
- Young MC, Munoz-Furlong A, Sicherer S. Management of food allergies in schools: A perspective for allergists. *J Allergy Clin Immunol* 2009;124:175-182.e4.
- Sicherer S and Sampson HA. Peanut allergy: Emerging concepts and approaches for an apparent epidemic. *J Allergy Clin Immunol* 2007;120:491-503.
- Ortolani C, Ispano M, Pastorello EA, Ansaloni R, Magri GC. Comparison of results of skin prick tests (with fresh foods and commercial food extracts) and RAST in 100 patients with oral allergy syndrome. *J Allergy Clin Immunol* 1989; 83:683-90. Evidence grade: III
- Crespo JF, Rodriguez J, James JM, Daroca P, Reano M, Vives R. Reactivity to potential cross-reactive foods in fruit-allergic patients: implications for prescribing food avoidance. *Allergy* 2002; 57(10):946-9. Evidence grade: II
- Iacono G, Carroccio A, Cavataio F, et al. Gastroesophageal reflux and cow's milk allergy in infants: a prospective study. *J Allergy Clin Immunol* 1996; 97(3):822-7. Evidence grade: II
- Orenstein SR, Shalaby TM, Di Lorenzo C, Putnam PE, Sigurdsson L, Kocoshis SA. The spectrum of pediatric eosinophilic esophagitis beyond infancy: a clinical series of 30 children. *Am J Gastroenterol* 2000; 95:1422-30. Evidence grade: III
- Spergel JM, Beausoleil JL, Mascarenhas M, Liacouras C. The use of skin prick tests and patch tests to identify causative foods in eosinophilic esophagitis. *J Allergy Clin Immunol* 2002; 109:363-8. Evidence grade: II
- Lake AM, Whittington PF, Hamilton SR. Dietary protein-induced colitis in breast-fed infants. *J Pediatr* 1982; 101:906-10. Evidence grade: II
- Sampson HA, Anderson JA. Summary and recommendations: Classification of gastrointestinal manifestations due to immunologic reactions to foods in infants and young children. *J Pediatr Gastroenterol Nutr* 2000; 30:S87-S94. Evidence grade: IV February, 2011
- Sampson HA, Sicherer SH, Birnbaum AH. AGA Technical Review on the Evaluation of Food Allergy in Gastrointestinal Disorders. *Gastroenterol* 2001; 120:1026. Evidence grade: IV
- Sicherer SH, Eigenmann PA, Sampson HA. Clinical features of food protein-induced enterocolitis syndrome. *J Pediatr* 1998;133:214-9. Evidence grade: III
- Blanchard C, Wang N, Rothenberg ME. Eosinophilic esophagitis: Pathogenesis, genetics and therapy. *J Allergy Clin Immunol* 2006;118:1054-59.