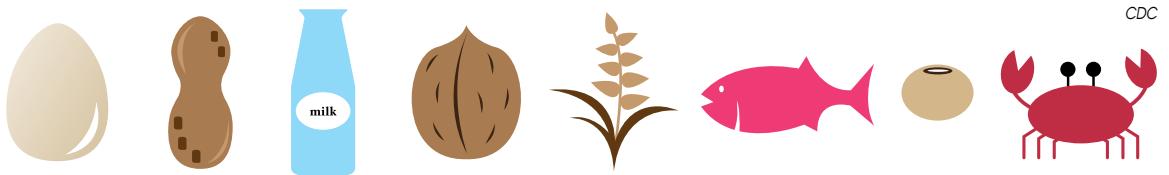




FOOD ALLERGIES

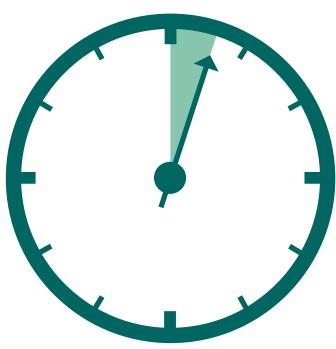
a growing concern

About **90 PERCENT** of all food allergic reactions are caused by only **EIGHT FOODS:** eggs, peanuts, milk, tree nuts, wheat, fish, soy and shellfish.

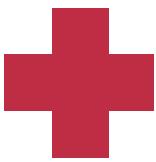


Many countries require **FOOD LABELS**

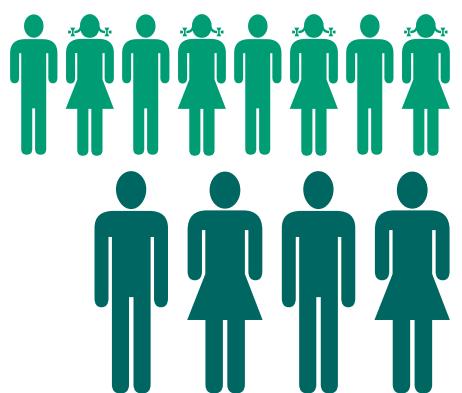
to list contents that are known to be allergenic, such as wheat or egg.



Every **THREE MINUTES** in the U.S., an allergic reaction sends someone to the hospital.



FARE

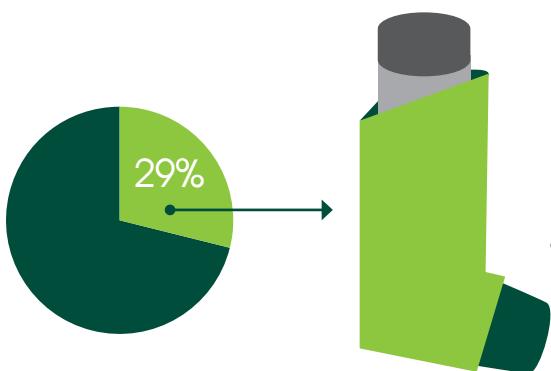
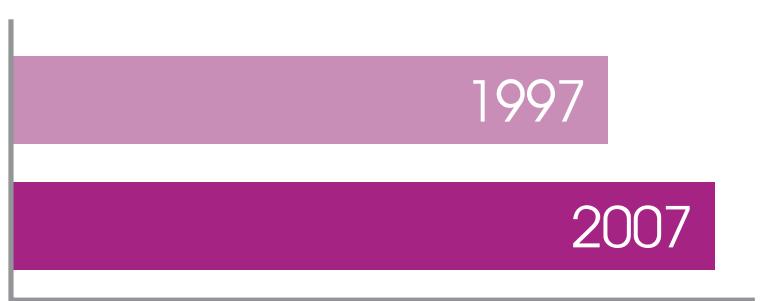


SIX TO EIGHT PERCENT of kids and **THREE TO FOUR PERCENT** of adults in the U.S. have at least one food allergy.

Globally, estimates place the number of people with food allergies to be anywhere from **220 TO 520 MILLION.**

Mayo Clinic, World Allergy Organization

The number of people with food allergies is increasing – from 1997 to 2007, reported food allergies jumped **18 PERCENT** for kids younger than 18 years of age. CDC



Food allergies often are linked to other health issues.

Case in point, about **29 PERCENT** of kids with food allergies also have asthma, whereas only 12 percent of kids without food allergies have asthma.

CDC

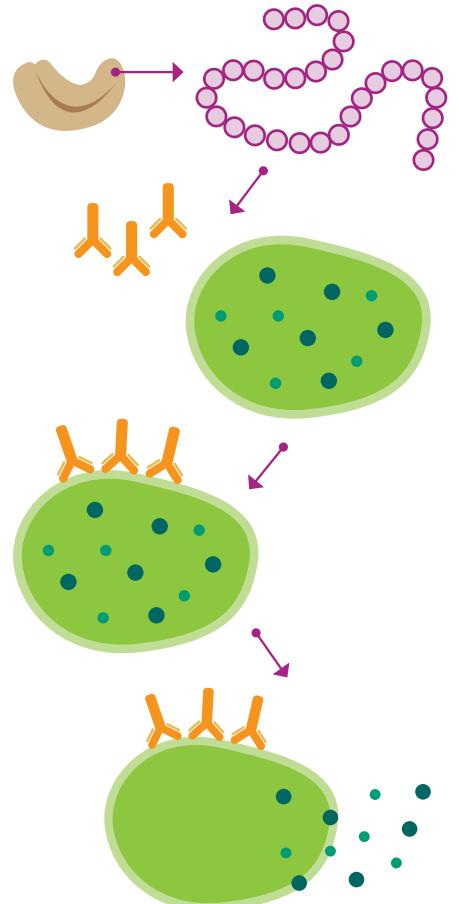
There is no cure for food allergies, although about **20 PERCENT** of kids with a peanut allergy outgrow it, along with about **9 PERCENT** of kids with a tree nut allergy. AAAAI



So, what happens during an ALLERGIC REACTION?

Allergic reactions are immune responses triggered by the presence of allergenic protein, even in minuscule amounts. Symptoms can range from hives and gastrointestinal discomfort to swelling of the airway or anaphylactic shock, which can be fatal. NIAID

- 1** Exposure to allergenic food proteins (e.g., through eating)
- 2** Allergenic protein triggers production of the antibody immunoglobulin E (IgE) and activates mast cells
- 3** IgE attaches to mast cells
- 4** Cells release histamine and heparin, which cause swelling or itching



Neogen Corporation | 800/234-5333 | www.neogen.com

Sources: Branum AM, Lukacs SL. Food allergy among U.S. children: Trends in prevalence and hospitalizations. NCHS data brief, no 10. Hyattsville, MD: National Center for Health Statistics; 2008. // "Food Allergy." Health Information. Mayo Clinic, 11 Feb 2011. Web. 27 Mar 2013. // "Food Allergies in Schools." Adolescent and School Health, Centers for Disease Control and Prevention, 17 Feb 2012. Web. 27 Mar 2013. // "Food allergy – A rising global health problem." World Allergy Organization. n.d. Web. 27 March 2013. // "Food Allergy: Tips to remember." Allergy Library. American Academy of Allergy, Asthma and Immunology. Web. 27 Mar 2013. // "Food Allergy Basics." About Food Allergy: Food Allergy Research and Education. Web. 27 Mar 2013. // "Food Allergy: An overview." National Institute of Allergy and Infectious Diseases, n.d. Web. 4 Apr 2013.