Hidden allergens

Thomas Holzhauser, PhD
Division of Allergology
Paul-Ehrlich-Institut
D-63225 Langen, Germany
Thomas.Holzhauser@pei.de

Learning objectives

- Hidden allergens are an unpredictable health risk for the food allergic individual.
- Precautionary labelling such as "may contain..." is frequently used for liability reason, but arbitrary use without proof of evidence is misleading and thus without benefit for the allergic individual.
- Hidden allergens in food industry may be eliminated by allergen control plans, sanitation procedures and self-auditing, including analytical testing.
- Elimination of hidden allergens is a great contribution to the avoidance of allergenic foods which at present is the most effective means of preventing the disease.

Selected references

Burks AW, Jones SM, Boyce JA, Sicherer SH, Wood RA, Assa'ad A, Sampson HA (2011). NIAID-Sponsored 2010 Guidelines for Managing Food Allergy: Applications in the Pediatric Population. Pediatrics 128:955-65.

Muñoz-Furlong A, Weiss CC (2009). Characteristics of food-allergic patients placing them at risk for a fatal anaphylactic episode. Curr Allergy Asthma Rep. 9:57-63.

Hefle SL, Furlong TJ, Niemann L, Lemon-Mule H, Sicherer S, Taylor SL (2007) Consumer attitudes and risks associated with packaged foods having advisory labeling regarding the presence of peanuts. J Allergy Clin Immunol. 120:171-6.

Röder M, Ibach A, Baltruweit I, Gruyters H, Janise A, Suwelack C, Matissek R, Vieths S, Holzhauser T (2008). Pilot plant investigations on cleaning efficiencies to reduce hazelnut cross-contamination in industrial manufacture of cookies. J Food Prot. 71:2263-71.

Röder M, Baltruweit I, Gruyters H, Ibach A, Mücke I, Matissek R, Vieths S, Holzhauser T (2010). Allergen sanitation in the food industry: a systematic industrial scale approach to reduce hazelnut cross-contamination of cookies. J Food Prot.73:1671-9.

Blumchen K, Ulbricht H, Staden U, Dobberstein K, Beschorner J, de Oliveira LC, Shreffler WG, Sampson HA, Niggemann B, Wahn U, Beyer K (2010). Oral peanut immunotherapy in children with peanut anaphylaxis. J Allergy Clin Immunol. 126:83-91.