

CLINICAL SPECIFICATIONS

QUINOA

Antigen Made From:

Whole Quinoa kernel

Associated With:

Annaphylaxis¹

Secondary hyperoxaluria²

Known Cross-Reactions: Amaranth, Rice, Sunflower;³ Insulin, Glutamic Acid Decarboxylase-65;⁵ Triiodothyronine (T3)⁶

Clinical Significance:

The presence of antibodies to Quinoa is an indication of food immune reactivity. The offending food and its known cross-reactive foods should be eliminated from the diet. Quinoa is considered a beneficial food, especially for celiac patients and vegetarians.⁴ Quinoa is labeled by the scientific community as a non-allergenic food, however, severe allergic reaction to Quinoa has been reported.¹ If a recently diagnosed gluten-reactive patient exhibits high levels of antibodies to Quinoa, it may be due to the late introduction of Quinoa into the diet.

References:

- 1. Astier et al. First case report of anaphylaxis to quinoa, a novel food in France. Allergy, 2009; 64(5):819-820.
- 2. Jancurová et al. Quinoa a review. Czech J Food Sci, 2009; 27(2):71-79.
- 3. Aphalo et al. Surface physicochemical properties of globulin-P amaranth protein. J Agric Food Chem, 2004; 52:616-622.
- 4. Lee et al. Anaphylaxis to an Organic Health Food Cereal: Amaranth Allergy. J Hum Nutr Diet, 2009, 22:359-363.
- 5. Kharrazian, et al. Detection of islet cell immune reactivity with low glycemic index foods: is this a concern for type 1 diabetes? J Diabetes Res, 2017; 2017:4124967.
- 6. Kharrazian, et al. Immunological reactivity using monoclonal and polyclonal antibodies of autoimmune thyroid target sites with dietary proteins. J Thyroid Res, 2017; 2017:4354723.