

# Detection of serum food specific antibodies of 6 common foods in patients with IgA nephropathy

[Article in Chinese]

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### Abstract

#### *OBJECTIVE:*

To explore the relationship between the major allergens of 6 common allergic foods and IgA nephropathy.

#### *METHODS:*

A sensitive sandwich enzyme-linked immunosorbent assay (ELISA) was used to detect the serum levels of food-specific IgA1, IgG and IgE in 31 patients with IgA nephropathy and 80 healthy volunteers. All the patients were examined for a history of food allergy using a questionnaire.

#### *RESULTS:*

Serum levels of IgA1 and IgG against the major allergens of the 6 common allergic foods were significantly higher in patients with IgA nephropathy than in healthy volunteers ( $P < 0.05$ ). There was no detectable food-specific IgE antibodies in the two groups. No patients had a clear history of food allergy. All the patients with increased IgG levels specific to 4 or more foods simultaneously had proteinuria.

#### *CONCLUSIONS:*

Some foods especially the highly allergic ones may participate in the pathogenesis and progression of IgA nephropathy.