

MEETING ABSTRACT

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Food allergy and anaphylaxis – 2059. Mild symptoms induced by oral food challenge are not always associated with failed challenge results

Taro Miura^{1*}, Noriyuki Yanagida², Sakura Sato³, Yumi Koike⁴, Kiyotake Ogura⁴, Katsuhito likura⁴, Takatsugu Komata⁴, Akinori Shukuya², Takanori Imai², Motohiro Ebisawa⁵, Morimitsu Tomikawa⁶

From 2nd WAO International Scientific Conference (WISC 2012) Hyderabad, India. 6-9 December 2012

Background

Diagnosis of food allergy (FA) is fundamentally based on results of oral food challenge (OFC). In regular practice, we apply open-OFC but not DBPCFC for small children. There seem to be some discrepancy between diagnosis of FA and results of open-OFC. Purpose of this study is to examine correlation between diagnosis of FA and results of OFC.

Methods

4574 patients (average age 4.0 ± 2.6 years old, male-female ratio 1.89), who had received open-OFC to heated-egg or cow's milk or wheat from 2005 to 2012, were enrolled to this study. Patients were divided into following 3 categories according to symptoms induced by OFC (primary diagnosis of FA). The "positive" group was patients who showed objective symptoms and "negative" group was patients who had not any symptoms. The third group was defined as "uncertain" who only showed subjective or weak objective symptoms such as slight erythema, mild abdominal pain or isolated cough. Patients with "negative" and "uncertain" group were asked to ingest causative foods or those products at home to confirm whether to induce any symptoms by the intake or not. In several weeks after OFC, we made the final diagnosis based on the information obtained from patients (final diagnosis of FA).

Results

At primary diagnosis of FA, 29.3% (1343 /4574) patients were categorized as "positive", 51.7% (2362 /4574) patients "negative" and "uncertain" patients 19.0% (869 /4574).

At final diagnosis of FA, 518 of 869 (59.6%) in "uncertain" group was judged as "negative", whereas 61 of 2362 (2.9%) in "negative" group were decided as "positive" and needed avoid causative foods.

Conclusions

Although results of OFC are essential for diagnosis of FA, reproducibility of symptoms is important. If patients only show subjective or mild objective symptoms, we need to confirm them regular intake of causative foods.

Author details

¹Department of Allergy, Sagamihara National Hospital, Kanagawa, Japan. ²Department of Pediatrics, Natinal Sagamihara Hospital, Kanagawa, Japan. ³Clinical Research Center for Allergy and Rheumatology, National Sagamihara Hospital, Kanagawa, Japan. ⁴Natinal Sagamihara Hospital, Japan. ⁵Department of Allergy, Sagamihara National Hospital, Clinical Research Center, Japan. ⁶Sagamihara National Hospital, Japan.

Published: 23 April 2013

doi:10.1186/1939-4551-6-S1-P142

Cite this article as: Miura et al.: Food allergy and anaphylaxis – 2059. Mild symptoms induced by oral food challenge are not always associated with failed challenge results. World Allergy Organization Journal 2013 6(Suppl 1): P142.

¹Department of Allergy, Sagamihara National Hospital, Kanagawa, Japan Full list of author information is available at the end of the article

