



POSTER PRESENTATION

Open Access

In vivo and in vitro studies on the sensitisation to a panel of allergens in a large rosacea allergic group of patients

Ignacio García Nuñez^{1*}, Ana Aranda¹, Ana Belen Blazquez¹, Maria Jose Torres¹, Maria Luisa Galindo¹, Miguel Blanca¹, Maria Luisa Sanz²

From Food Allergy and Anaphylaxis Meeting 2011
Venice, Italy. 17-19 February 2011

Background

Allergy to peach and apple is a frequent problem in the Mediterranean area. Both fruits share allergens between them and with those from other plants and pollens. Component resolved diagnosis assays (CRD) enable to detect IgE antibodies to a wide panel of allergens. A detailed clinical evaluation plus CRD permit a precise analysis of sensitizations to many allergens. Our aim was to analyse sensitisation to fruit and pollen allergens by in vivo/in vitro methods in patients allergic to peach and/or apple.

Methods

We included 107 patients. A detailed history, including questions related with response or tolerance to different fruits and plants, skin prick test (SPT) with a large panel of representative allergens in our area, and specific IgE antibodies using a CRD platform (ISAC, Phadia).

Results

Sixty-six cases (61,68%) had symptoms with peel peach, 46(42,99%) with pulp peach and 21(19,62%) with apple. SPT with Pru p3 was positive in 53(49,53%), to Pru p1 in 9(8,41%) and to Mal d1 in 38(35,51%). CRD was positive to Pru p3 in 45(42,05%) and to Mal d1 in 6(5,6%). From the total group, 27(25,23%) tolerated peel peach, 47(43,92%) pulp peach and 76(71,02%) apple. Patients had skin test and CRD positive to allergens from fruits that they tolerated. Furthermore, different degree of clinical response and sensitization was obtained with all the other allergens evaluated.

Conclusions

In vivo and in vitro evaluations with an extensive panel of allergens enable to make a precise diagnosis of allergic patients to fruits. However, discrepancies exist between clinical response and sensitization. Further studies are in progress for understanding these findings.

Author details

¹Hospital Universitario Carlos Haya, Allergy Department, Malaga, Spain.
²Clinica Universitaria de Navarra, Allergy Department, Pamplona, Spain.

Published: 12 August 2011

doi:10.1186/2045-7022-1-S1-P99

Cite this article as: García Nuñez *et al.*: In vivo and in vitro studies on the sensitisation to a panel of allergens in a large rosacea allergic group of patients. *Clinical and Translational Allergy* 2011 **1**(Suppl 1):P99.

Submit your next manuscript to BioMed Central and take full advantage of:

- Convenient online submission
- Thorough peer review
- No space constraints or color figure charges
- Immediate publication on acceptance
- Inclusion in PubMed, CAS, Scopus and Google Scholar
- Research which is freely available for redistribution

Submit your manuscript at
www.biomedcentral.com/submit



¹Hospital Universitario Carlos Haya, Allergy Department, Malaga, Spain
Full list of author information is available at the end of the article