

**PD24 - Oral food challenges to peanut in the pediatric population at the Allergy Department of the University Hospital of Montpellier, France**

Maria Chiara Leoni, Marie Pascale Demoly, Anca Mirela Chiriac, Gian Luigi Marseglia, Pascal Demoly

► **To cite this version:**

Maria Chiara Leoni, Marie Pascale Demoly, Anca Mirela Chiriac, Gian Luigi Marseglia, Pascal Demoly. PD24 - Oral food challenges to peanut in the pediatric population at the Allergy Department of the University Hospital of Montpellier, France. Poster discussion presentation. 2014, pp.P24. <inserm-00953660>

**HAL Id: inserm-00953660**

**<http://www.hal.inserm.fr/inserm-00953660>**

Submitted on 28 Feb 2014

**HAL** is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



POSTER DISCUSSION PRESENTATION

Open Access

# Oral food challenges to peanut in the pediatric population at the Allergy Department of the University Hospital of Montpellier, France

Maria Chiara Leoni<sup>1\*</sup>, Marie Pascale Demoly<sup>2</sup>, Anca Mirela Chiriac<sup>2</sup>, Gian Luigi Marseglia<sup>1</sup>, Pascal Demoly<sup>2</sup>

From 3rd Pediatric Allergy and Asthma Meeting (PAAM)  
Athens, Greece. 17-19 October 2013

## Objective

We describe the experience of our department with positive oral food challenges (OFC) to peanut in children, over a 10-year period.

## Methods

Children who underwent a positive OFC to peanut between November 2001 and November 2012 in the Allergy Department of the University Hospital in Montpellier, France, were analysed with respect to demographics, history of atopic disease, specific IgE values, skin tests results and the severity of both the index reaction and the one elicited by the OFC (according to the Sampson grades of severity)[1].

## Results

69 OFC to peanut were positive in 59 (38 male and 21 female) patients, aged 3-16 years (mean age, 7.56 years). 129 OFC turned out negative over the same period of time. All the patients were atopic. The most common allergens were: grass mix (44.1%), cat and dog dander (42.6%), house dust mites (38.2%), molds (29.4%) and cypress pollen (20.5%). 24 (35.2%) patients had allergic rhinitis and 45 (66.2%) had asthma (n=26 GINA 1, n=18 GINA 2, n=1 GINA 3). 29 (42.6%) patients suffered from atopic eczema. 26 patients (41%) had no history of previous ingestion of peanuts and the avoidance regimen had been recommended either because of positive IgE and/or skin tests (in the context of atopic disease in early life) or because of reactions to cross-reactive tree nuts.

32 OFC were conducted in this population, eliciting 20 grade I reactions (62.5%), 11 (34.4%) grade II reactions and one anaphylactic shock. In the other patient group, with a clinical history of reaction to peanut itself, 29 patients (49.2%) had a history of a grade I reaction and 4 (6.7%) described grade II reactions. The 37 OFC performed in these patients were followed either by grade I or II reactions, namely the reaction was just as severe in 21 (56.7%), more severe in 13 (35.1%) and less severe in 3 patients (8.1%). The lowest eliciting dose, in terms of protein content, was 25 mg.

## Conclusion

OFC provides data regarding the allergic status and the eliciting dose in patients with a suspicion of peanut allergy. Caution is mandatory, since reactions following OFC may be more severe than the index reaction, despite the slow progression of doses.

## Authors' details

<sup>1</sup>Dipartimento di Scienze Clinico-Chirurgiche, Diagnostiche e Pediatriche, Ambulatorio di Immuno-Pneumo-Allergologia Pediatrica, Fondazione IRCCS Policlinico San Matteo, University Hospital of Pavia, Pavia, Italy. <sup>2</sup>Département de Pneumologie et Addictologie, Unité d'Allergologie INSERM U657, Hôpital Arnaud de Villeneuve, University Hospital of Montpellier, Montpellier, France.

Published: 14 March 2014

## Reference

1. Sampson HA, et al: Second symposium on the definition and management of anaphylaxis: Summary report - Second National Institute of Allergy and Infectious Disease/Food Allergy and Anaphylaxis Network Symposium. *J Allergy Clin Immunol* 2006, **117**:391-810.

doi:10.1186/2045-7022-4-S1-P24

Cite this article as: Leoni et al.: Oral food challenges to peanut in the pediatric population at the Allergy Department of the University Hospital of Montpellier, France. *Clinical and Translational Allergy* 2014 **4**(Suppl 1):P24.

<sup>1</sup>Dipartimento di Scienze Clinico-Chirurgiche, Diagnostiche e Pediatriche, Ambulatorio di Immuno-Pneumo-Allergologia Pediatrica, Fondazione IRCCS Policlinico San Matteo, University Hospital of Pavia, Pavia, Italy  
Full list of author information is available at the end of the article