



ORAL PRESENTATION

Open Access

O12 - Specific IgE levels for goat's and sheep's milk after successful oral immunotherapy to cow's milk in children

Liseth Villafana^{1*}, Soledad Terrados¹, Belen De la Hoz¹, Mónica Rodríguez², Ana De Andrés¹

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

Introduction

Cow's milk (CM) oral immunotherapy has proven to be effective as a treatment for persistent CM allergy. Allergic reactions to goat and sheep cheeses have been described in almost 25% of patients desensitised to CM, indicates that immunotherapy is specific for each milk.

Objectives

To describe changes of goat's IgE and sheep's IgE in patients who tolerated CM after a CM oral immunotherapy.

Methods

24 children aged between 4 and 13 who achieved tolerance to milk after CM immunotherapy were included. Specific IgE to cow's caseine, sIgE to whole goat's milk and sIgE to whole sheep's milk at baseline and at 24 months follow up were analysed (CAP-Phadia). The patientes were classified in two groups: high risk (17 patients) and low risk (7 patients) based on the premedication need, number of adverse reactions and time to achieve a complete tolerance to CM.

Results

The median of Specific IgE to CM casein, goat's whole milk, sheep's whole milk a baseline were 24.3KU/L, 31.2KU/L and 27.4KU/L and 9.5KU/L, 16.9KU/L and 17.3KU/L after 24 months of follow up ($p < 0,05$). In the high risk patients the median of Specific IgE to CM casein, goat's whole milk, sheep's whole milk were 33.7KU/L, 43.7KU/L and 37.1KU/L at baseline and 13.1KU/L, 23.9KU/L and 23.6KU/L after 24 of follow up ($p < 0,05$). In contrast, in the low risk group the specific

IgE to CM casein, goat's whole milk, sheep's whole milk did not shown a significant decrease after 24 of follow up. 4 patients showed a different patron referred to IgE-goat's milk and IgE-sheep's milk compared with CM, independently of risk group.

Conclusions

We found a decrease of IgE levels to whole goat's and sheep's milk after oral immunotherapy to CM.

Authors' details

¹Ramón y Cajal Hospital, Madrid, Spain. ²San Carlos Clinic Hospital, Madrid, Spain.

Published: 28 February 2014

doi:10.1186/2045-7022-4-S1-O12

Cite this article as: Villafana et al.: O12 - Specific IgE levels for goat's and sheep's milk after successful oral immunotherapy to cow's milk in children. *Clinical and Translational Allergy* 2014 **4**(Suppl 1):O12.

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



¹Ramón y Cajal Hospital, Madrid, Spain
Full list of author information is available at the end of the article