

MEETING ABSTRACT

Open Access

Immunotherapy – 2082. Long term prevention of asthma and rhinitis in children with atopic dermatitis four year after discontinuation of sublingual immunotherapy

Giovanni Passalacqua^{1*}, Valentina Garelli¹, Francesca Scifò¹, G Walter Canonica¹, Giovanni Pajno²

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

Background

Atopic Dermatitis is a disease with high prevalence in Italy (about 15% of the population). As known, Atopic Dermatitis is often associated with respiratory allergy to mite. We previously showed that sublingual immunotherapy (SLIT) to mite has a beneficial clinical effect in patients with allergic extrinsic Atopic Dermatitis (AD). To investigate the long term effects, we performed a 4-year follow up after the termination of SLIT.

Methods

46 children with AD, aged 5-16 years and allergic to mite were re-assessed 4 years after discontinuation of a 2-year course of SLIT (or placebo). Methacholine provocation tests were carried out at baseline, after 2 years (when SLIT was stopped) and after 4 years. The development of asthma and rhinitis was assessed by clinical evaluations.

Results

The children who previously had received SLIT had significantly less asthma after 6 years as evaluated by clinical symptoms: odd ratio 3.73 (0.130 vs 0.511; $P=0.02$) as compared to the former placebo group. In addition, significantly less patients reported an increase in asthma scores $P=0.003$. A significant difference in bronchial methacholine responsiveness was found between the two groups ($P=0.03$), with an overall lower bronchial hyper-reactivity in children who previously received active SLIT.

Conclusions

A 2-year course of SLIT to mite provided a long term clinical effect and prevented the development of asthma in children with allergic extrinsic form of Atopic Dermatitis.

Author details

¹Dept of Internal Medicine, Genoa University Allergy and Respiratory Diseases, Genova, Italy. ²Dept of Pediatrics, Allergy Unit, University of Messina, Messina, Italy.

Published: 23 April 2013

doi:10.1186/1939-4551-6-S1-P163

Cite this article as: Passalacqua et al.: Immunotherapy – 2082. Long term prevention of asthma and rhinitis in children with atopic dermatitis four year after discontinuation of sublingual immunotherapy. *World Allergy Organization Journal* 2013 **6**(Suppl 1):P163.

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



¹Dept of Internal Medicine, Genoa University Allergy and Respiratory Diseases, Genova, Italy
Full list of author information is available at the end of the article