

MEETING ABSTRACT

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Subcutaneous allergen immunotherapy with dermatophagoides pteronyssinus in patient with local allergic rhinitis

Carmen Rondon^{1*}, Paloma Campo¹, Natalia Blanca-López², Francisca Gomez¹, Maria Dolores Ruiz¹, Gabriela Canto², Maria Jose Torres¹, Miguel Blanca¹

From 3rd WAO International Scientific Conference (WISC) 2014 Rio de Janeiro, Brazil. 6-9 December 2014

Background

In this study we investigated the efficacy and safety of subcutaneous allergen immunotherapy (AIT) with *Dermatophagoides pteronyssinus* (DP) in patients with local allergic rhinitis (LAR).

Methods

A randomized, double-blind, placebo-controled, parallel-group, phase II study was conducted. Thirty-six subjects with LAR to DP were randomized to receive Pangraminâ PLUS, ALK, *Dermatophagoides pteronyssinus* (AIT-DP) or placebo for 24 months. The primary endpoint was total symptoms (TSS) and total medication scores (TMS). Secondary endpoints included: total combined symptom+medication scores (TCS), daily symptoms score (DSS), daily medication score (DMS), medication free days (MFD), skin testing, nasal allergen provocation test (NAPT-DP), and adverse events. Serum and nasal lavage samples were obtained for immunological studies.

Results

Twenty-eight patients completed the study. AIT-DP produced a significant improvement in the primary endpoints compared to placebo (a 47% of reduction in TSS (0.60 vs 1.14; p<0.001) and a 51.2% in TMS (0.65 vs 1.34; p=0.002). Moreover, at 6-12-18-24 months significant improvements in TCS (p=0.046; p=0.037; p=0.011; p=0.007) and DSS (p=0.003; p=0.012; p<0.001; p<0.001); and at 24 months in DMS (p=0.014), and MFD (p=0.031) compared to placebo were observed. AIT-DP

induced an objective improvement in nasal tolerance to NAPT-DP at 6-12-18-24 months (p=0.003; p<0.001; p<0.001; p<0.001) compared to placebo, with negative responses in the 50% of patients. AIT-DP was well-tolerated, one patient had a local moderate reaction solved without systemic treatment. No systemic reactions occurred.

Conclusion

We prove that AIT with *Dermatophagoides Pteronyssinus* is an effective and well-tolerated treatment in LAR patients. This phase II study provides the indication for AIT in LAR.

Authors' details

¹Allergy Unit, Regional University Hospital of Málaga, Spain. ²Allergy Service, Hospital Infanta Leonor, Spain.

Published: 8 April 2015

doi:10.1186/1939-4551-8-S1-A263

Cite this article as: Rondon *et al.*: Subcutaneous allergen immunotherapy with dermatophagoides pteronyssinus in patient with local allergic rhinitis. *World Allergy Organization Journal* 2015 **8**(Suppl 1): A263.

¹Allergy Unit, Regional University Hospital of Málaga, Spain Full list of author information is available at the end of the article

