

(LN1) Pollen sensitization among rhinitis patients in Inner Mongolia, China

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Presenter: Lei Cheng

Organizer: Hiromi Takeuchi & Tadao Enomoto

Sponsor: Siemens Healthcare Diagnostics K.K.

Free box lunch is provided for the participants (non-registration)

LS1 (70)

Pollen sensitization among rhinitis patients in Inner Mongolia, China

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We investigated the pollen sensitization among rhinitis patients, and evaluated the consistency of skin prick test (SPT; ALK-Abelló) and serum specific IgE (sIgE; ImmunoCAP) in detection of pollen sensitization in Inner Mongolia, China. Three hundreds and fourteen patients with rhinitis symptoms were recruited in this study in a hospital setting at Xilinhot, Inner Mongolia in 2010. All patients underwent medical history investigation, anterior rhinoscopy, pollen allergen SPT and sIgE detection. The results showed that the prevalence of positive SPT was 51.9% for mugwort, 31.2% for ragweed, 26.4% for timothy and 24.2% for birch pollen, respectively. The prevalence of positive sIgE was 47.1% for mugwort, 34.7% for ragweed, 21.3% for birch and 19.7% for timothy pollen, respectively. The Kappa value of SPT and sIgE was 0.731 for mugwort, 0.308 for ragweed, 0.560 for timothy and 0.416 for birch pollen, respectively (all $P < 0.01$). It is suggested that more than one half of rhinitis patients related to pollen sensitization, and mugwort is the major airborne and allergenic pollen in Xilinhot, Inner Mongolia. We also discussed clinical value of the novel allergy blood testing (3gAllergyTM, Siemens) in diagnosis of allergic rhinitis.

Keywords: allergic rhinitis, pollen, skin tests, specific IgE, China.