



## Effect of modified immunotherapy with an allergen-pullulan conjugate in patients with Japanese cedar pollinosis

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Immunologic mechanisms of allergen immunotherapy are still incompletely understood. Immunotherapy of a higher maximum tolerance dose with reduced risks of systemic reactions, such as anaphylaxis, needs to be developed. Seasonal allergic rhinitis (SAR) is a type I allerg ic disease characterized by typical seasonal symptoms of rhinitis and an increase in mast cells and T helper (Th) 2-type cells, as well as tissu e eosinophilia. The present study was designed to investigate the effect of a modified immunotherapy (IT) with an allergenpullulan conjugat e (CS-560) in patients with SAR to Japanese cedar pollen (Japanese cedar pollinosis) using objective parameters, such as analyzing the alterat ion in the proportion of effector cells like mast cells, eosinophils and T cells, and the Th2 and Th1 cytokine profile. We also analyzed the efficacy of modified IT on the severity of symptoms, using subjective parameters, such as the symptommedication score. Immunotherapy for 1 5 months duration with the modified drug CS-560 in patients with Japanese cedar pollinosis induced an immune deviation from a Th2- to a T h1-type cytokine profile and inhibited the in-season increase in the proportion of intraepithelial mast cells and eosinophils. These changes wer e associated with a reduction in the symptommedication score. These data suggest that this modified IT with an allergen pullulan conjugat e (CS-560) is an effective mode of treatment of patients with Japanese cedar pollinosis.

存档文本

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