

Order of ants and wasps (Hymenoptera) counts a hundred thousand species of insects (only on the lives of our

around 15,000 kinds)

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. Some individuals have a stinging venom apparatus that they primarily used to defend against the enemy or stun kořisti1 , 2 and 3 stings or bites

One can manifest in different ways. Not too often, but severe or even fatal complication of systemic allergic reactions. System allergen immunotherapy respective insects (" Specific Allergen Immunotherapy " - SAIT), abbreviated poison Immunotherapy (" Venom Immunotherapy " - VIT) is the only causal therapy , anti-of a serious or life -threatening IgE -mediated anaphylactic reaction to following stabbing relevant type hmyzu4

. Its purpose is to induce long-term immunological tolerance (specific hyposensitization) to systemically administered alergenům5

. Initial attempts at VIT has been carried out in the 20s of last century , the initially used whole body extracts ("whole body extracts " - WBEs) were due to comparable efficacy to placebo , replaced in the 70s poisonous extracts , which are used for diagnosis and therapy dodnes3

. The mechanism of induction of immunological tolerance through SAIT is complex and not yet fully understood . Probably induces the formation of the so-called " Blocking " IgG antibodies , reduces the number of effector cells and the amount of released inflammatory mediators and immunologic equilibrium shifts toward the Th2 Th1 cytokine odpovědi4

. Because of the potential for serious adverse reactions , time and financial demands , should this treatment been prescribed based on strict indication criteria and carried out under the supervision of an experienced physician available resuscitation vybavením5

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The main reason that led me to choose this topic is a personal experience with allergic reactions to wasp stings . Although it was not the reaction does not severe , I wondered whether the them in the future is not the risk of life-threatening reaction.

The aim of this thesis is to give a list of current knowledge concerning issue Hymenoptera venom allergy and then some of the data compared with the data , obtained from a sample of patients treated at the Department of Allergology and Clinical Immunology Vinohrady Teaching Hospital (FNKV) .