

Abstract

The theme of the diploma thesis is allergens in the teaching of natural science, biology and chemistry. The subject and its aim is to find out the presence of allergens in selected classes of natural sciences (natural sciences, biology, chemistry) as well as the level of awareness of problems of allergies and allergens from teachers and pupils of elementary schools and grammar schools and to compare whether teachers of selected subjects take into account Creating climate climate for allergic pupils.

The thesis consists of theoretical and practical part. The first part summarizes all theoretical knowledge, including the theme of allergies and allergens. It deals with the concept of allergy from the historical point of view, it characterizes the general importance of allergies and its connection with the immune system, it presents individual risk factors influencing the origin and development of allergic disease. A large part of the theoretical part describes allergic diseases including their manifestations, diagnosis and follow-up treatment, and also the individual types of allergens that are classified according to their effects on the organism. Last but not least, the chapter deals with the presence of allergens in the school environment. Also in this part the pedagogical documents - RVP and ŠVP are prepared for individual types of schools focused on the teaching of natural sciences, biology and chemistry, with the inclusion of the topic of allergies and allergens in these subjects. A large part of the practical part is devoted to the results of the questionnaire survey among pupils and students of elementary schools and grammar schools and among the teachers of natural science, biology and chemistry, which were prepared in the form of graphs and tables and enriched by commentary and subsequent discussion. Further, there is presented the course and the final evaluation of the own pedagogical observation focusing on the presence of allergens in selected classes of permissive subjects. The following part of the diploma thesis contains topics of allergy and allergenic activities including a presentation presentation, a corresponding work sheet and first aid training that were created for pupils and students of selected classes of elementary schools and grammar schools and verified in practice.

Keywords:

allergies, allergens, immunity, nature, biology, chemistry, research, learning activities