

ABSTRACT

The thesis focuses on the use of experiments in teaching the respiratory system at the 2nd level of primary school. It is divided into theoretical and practical parts. The theoretical part describes the types of experiments, their phases, the methodology of conducting, hygiene and safety principles and the role of the teacher and the pupil in the implementation of experiments. Furthermore, the teaching of the respiratory system in the Framework Education Programme (FEP) and the School Education Programme (SEP) is analysed, including the teaching objectives and competences. A selection of experiments suitable for teaching is also presented in this section. The practical part focuses on research that examines the impact of experiments on pupils' knowledge and their views on the inclusion of experiments in the curriculum. The research was conducted with two groups of Year 8 pupils - a control and an experimental group - using tests and questionnaires. The results showed that the inclusion of experiments in the respiratory system lessons improved pupils' retention of the material and concentration. Pupils positively evaluated the practical activities that helped them to remember the material better. It was also confirmed that teacher motivation was key to their interest in learning.