

Student's knowledge regarding air pollution and the role of multimedia in changing attitudes

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Abstract

Background, framework and purpose: Air pollution is one of the most important and serious environmental problem that affects both Poland and the whole world. People's knowledge about this issue is insufficient, hence the idea of expanding it with a multimedia e-book.

The aim of the research is to gather information about the awareness Polish university students regarding air pollution and to examine whether the created multimedia e-book influences the increase of their existing knowledge and change of their approach to the subject.

Methods: A survey was conducted before and after reading the multimedia e-book using an online Google Forms questionnaire. The survey was made available online or in person. The pretest provided basic information about the respondents and tested their knowledge of air pollution in Poland and worldwide. The posttest will measure the knowledge growth and the e-book will be assessed by students. The e-book includes various multimedia elements such as infographics, videos, files, games, and tests, providing answers to the questions posed in the survey.

Results: The results of the pretest revealed that students have an insufficient level of knowledge about air pollution, and only a few of them take action to address this problem.

It is expected that the created multimedia e-book will deepen students' knowledge about air pollution, and after reading it, they will achieve higher scores in the posttest compared to the pretest. It is also anticipated that the multimedia e-book is more effective in increasing knowledge about air pollution compared to traditional forms of education.

Keywords

air pollution, environmental awareness, multimedia, interactivity, e-book