



USE OF ICT TOOLS TO PROMOTE KNOWLEDGE CONSTRUCTION, COLLABORATION, SELF-ASSESSMENT AND CLINICAL REASONING IN CARDIORESPIRATORY PHYSIOTHERAPY TEACHING AND LEARNING

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Purpose/Relevance

With the advent of new uses of information and communication technology (ICT), web-based learning is becoming an important component of today’s teaching and learning process in higher education institutions. Wiki is an innovative mean of creating, editing, and disseminating information in an online environment. Interactive Clinical Case allows students to interact with each other using virtual patient or simulations. Online quizzes provide instant feedback, allow students to better evaluate their understanding of the subject and facilitate exam preparation. Furthermore, the availability of these additional learning tools could increase their motivation to study.

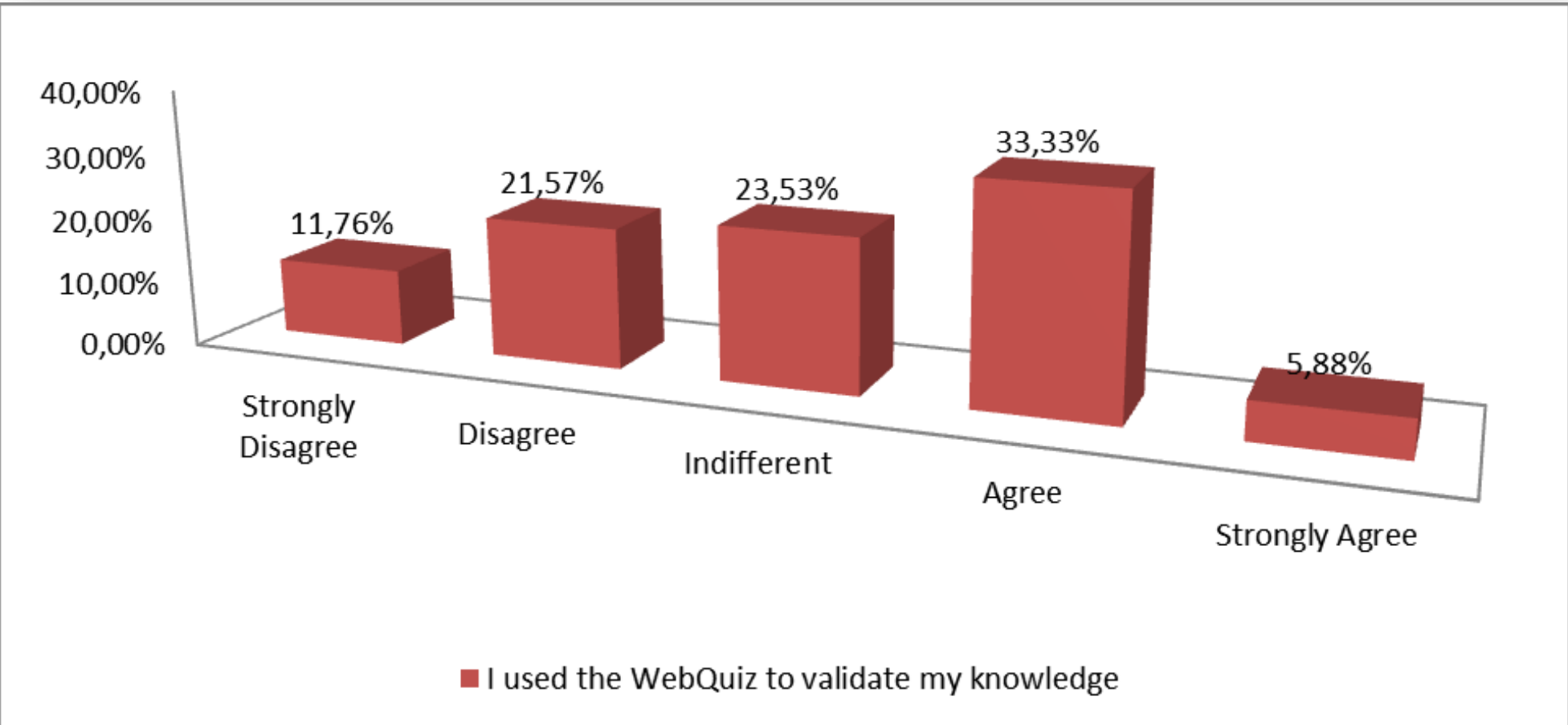
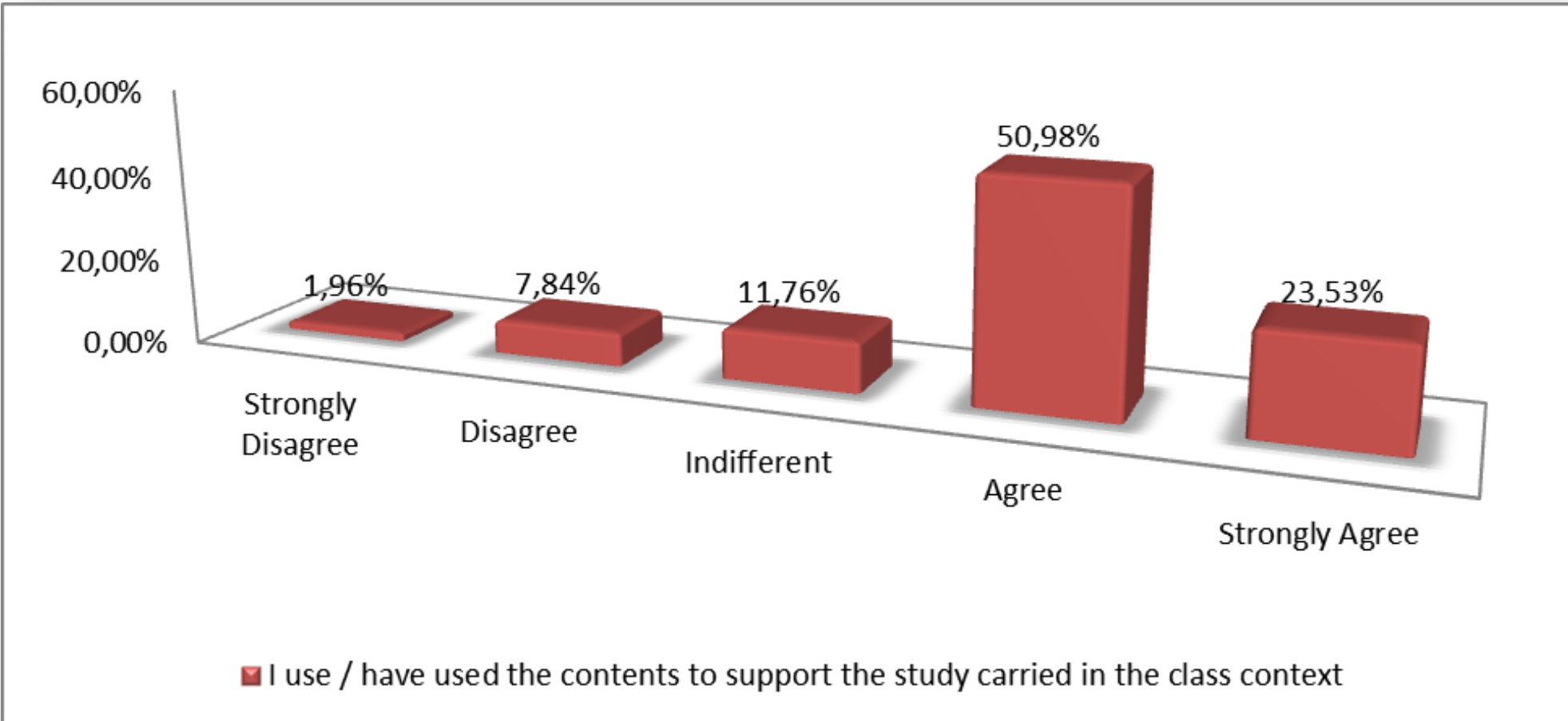
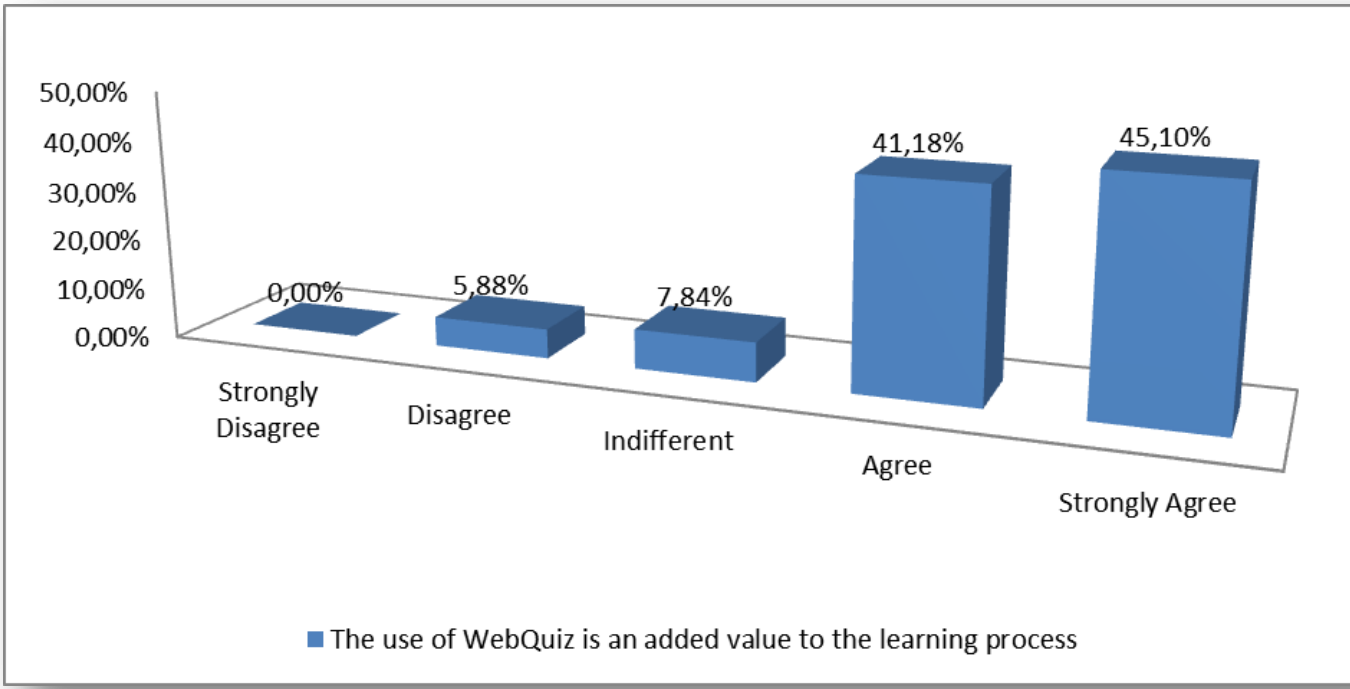
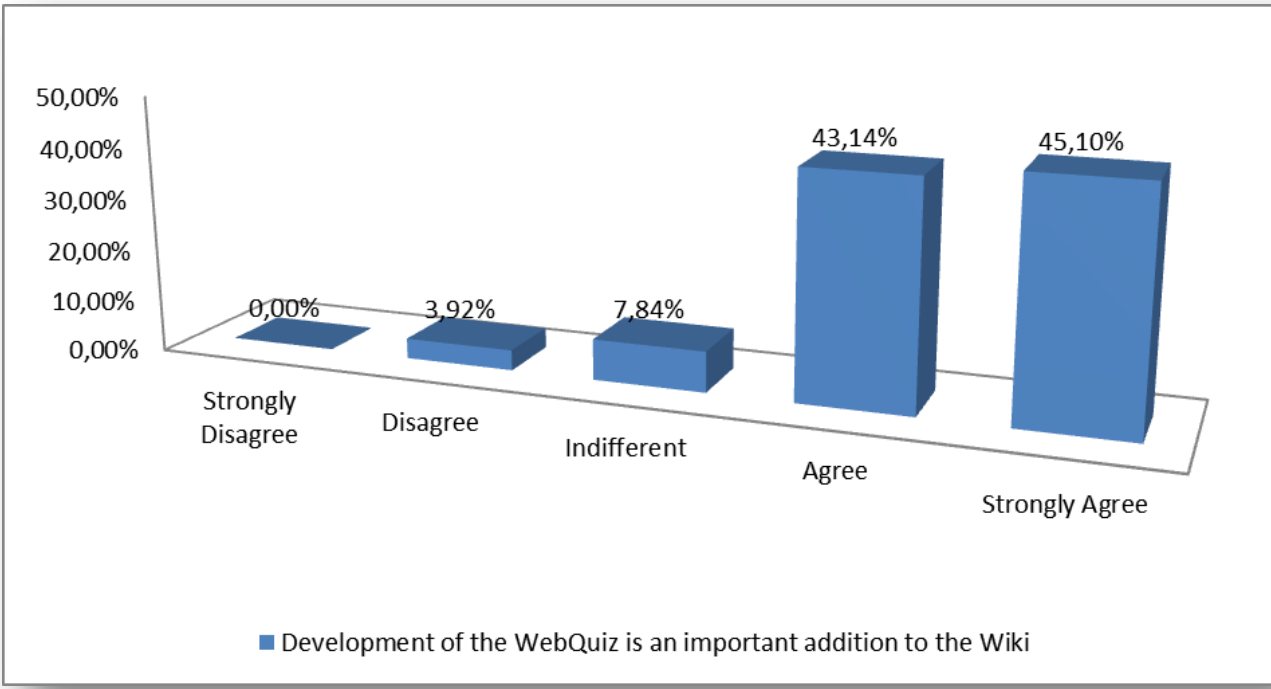
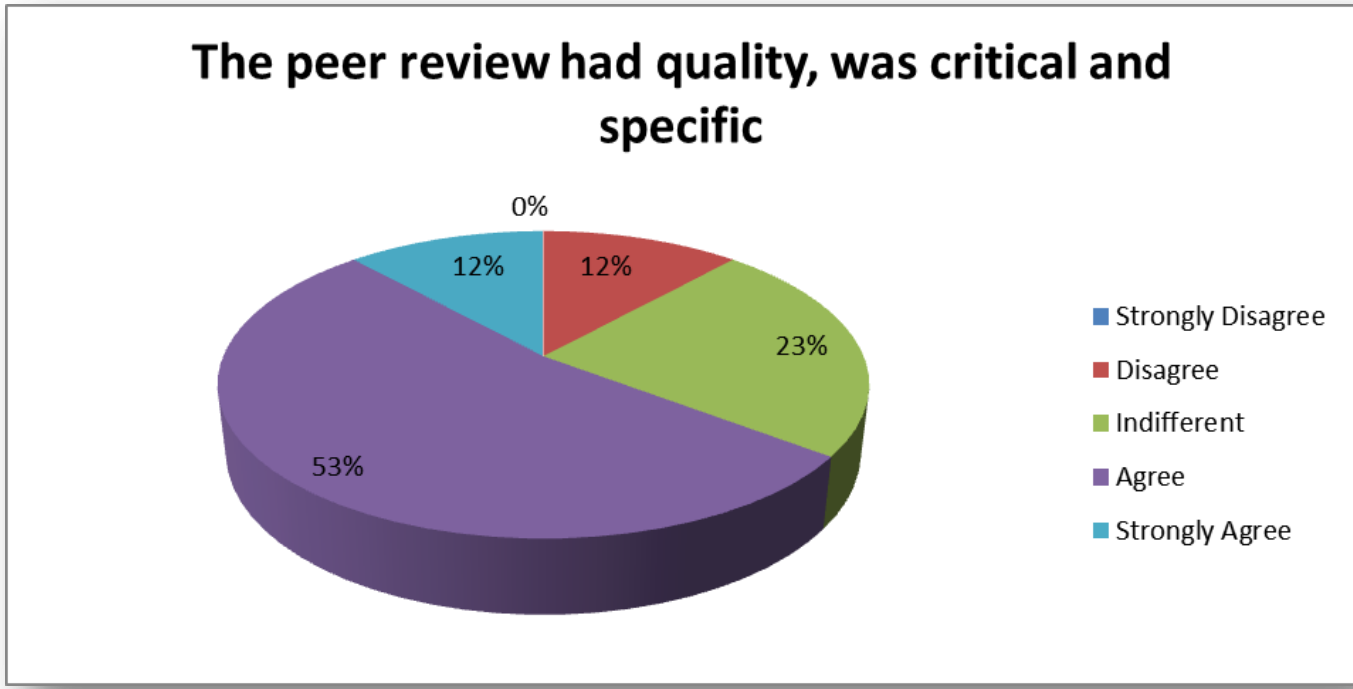
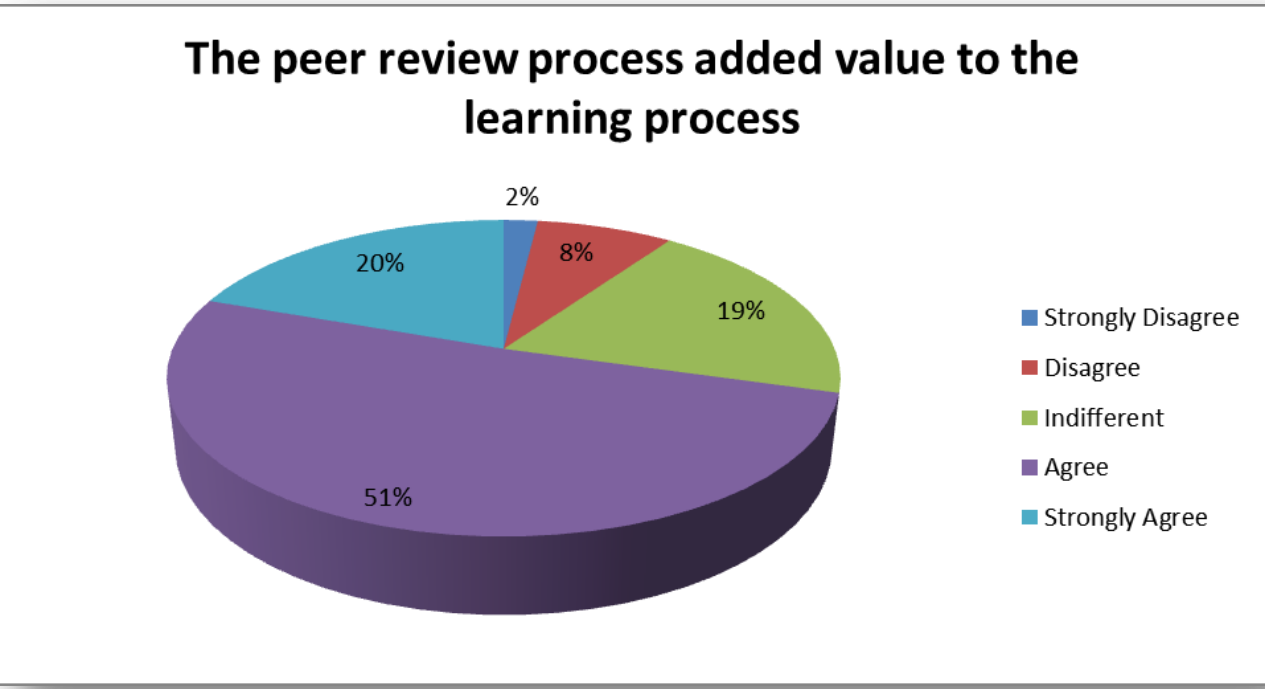
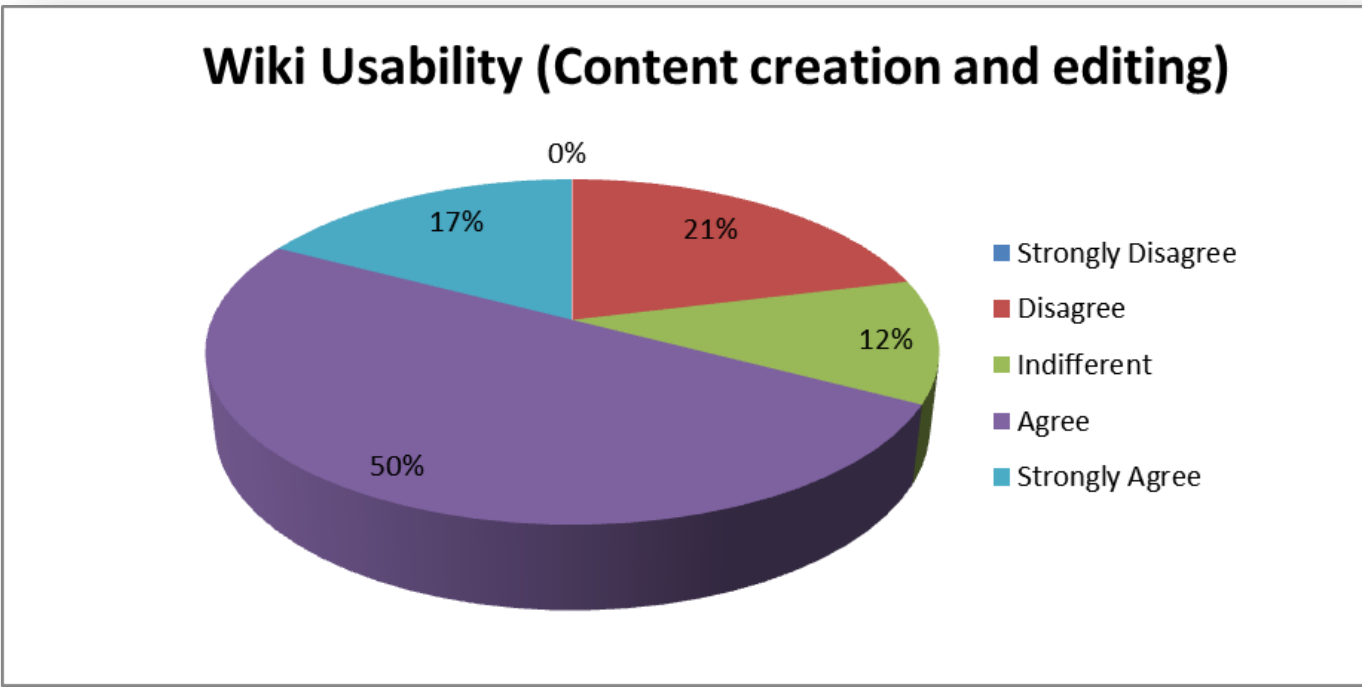
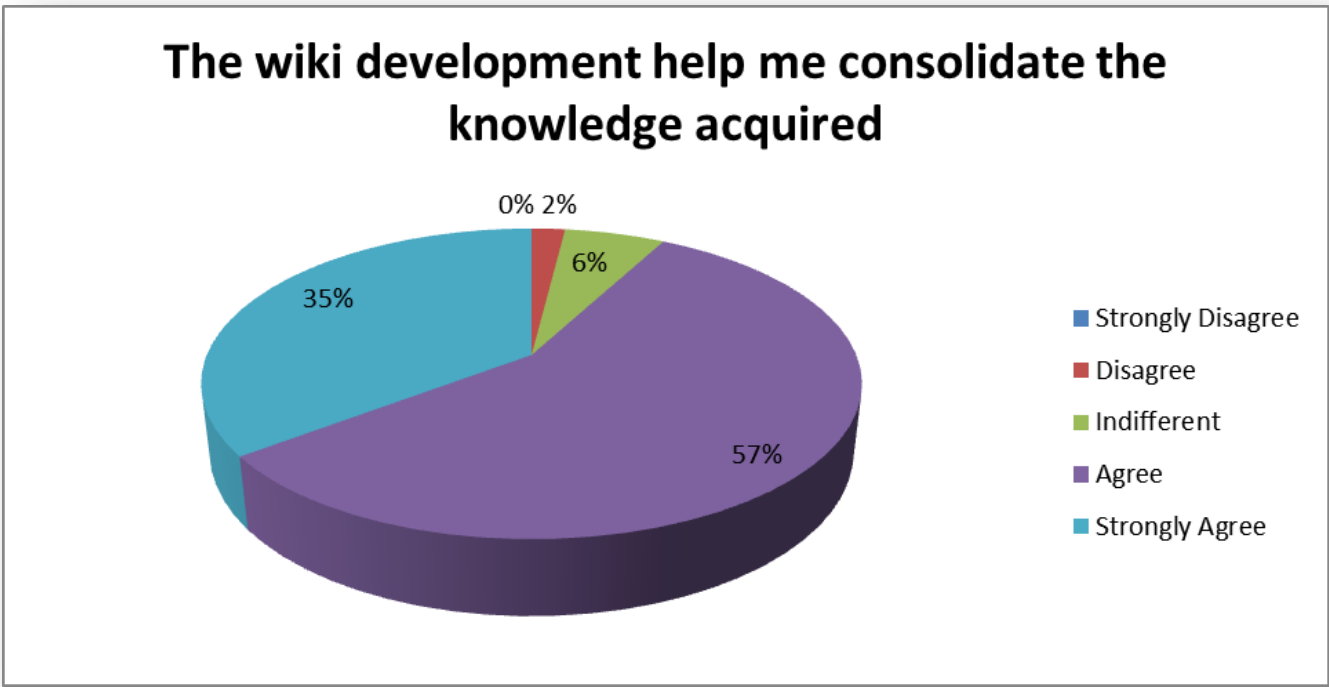
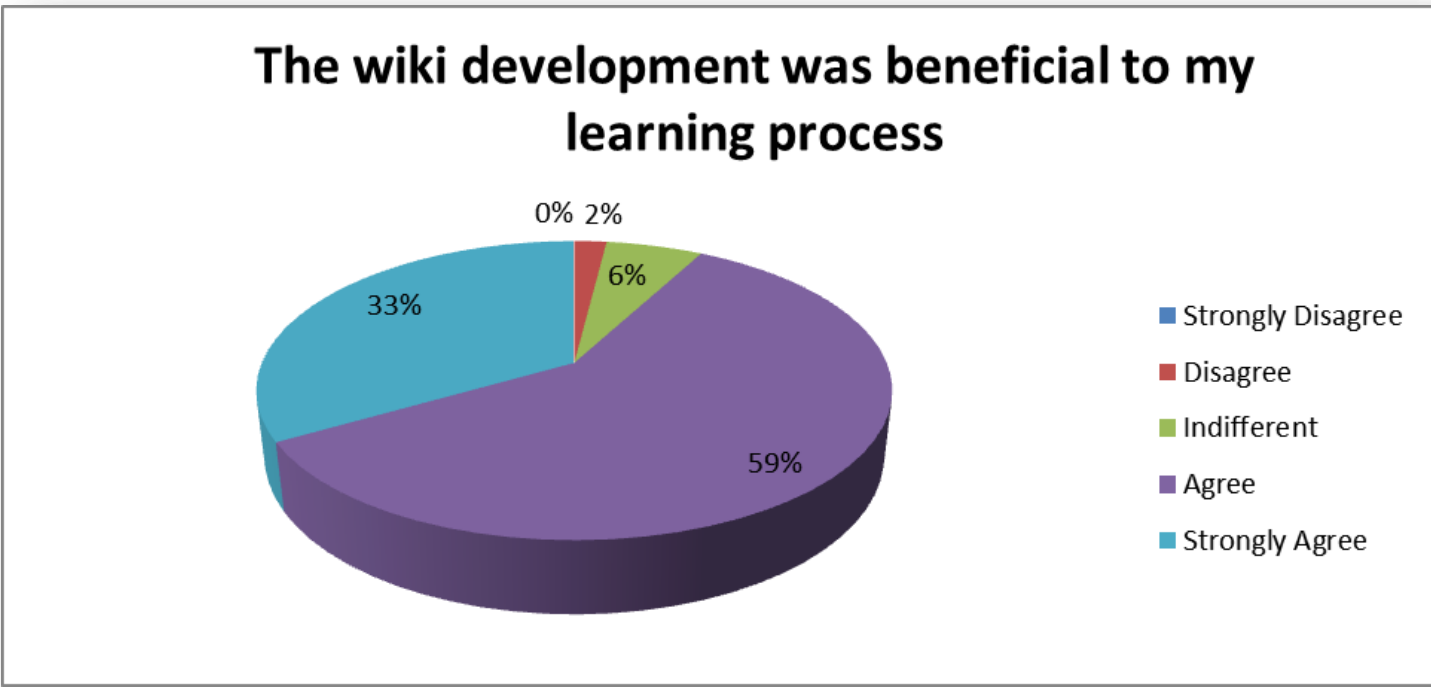
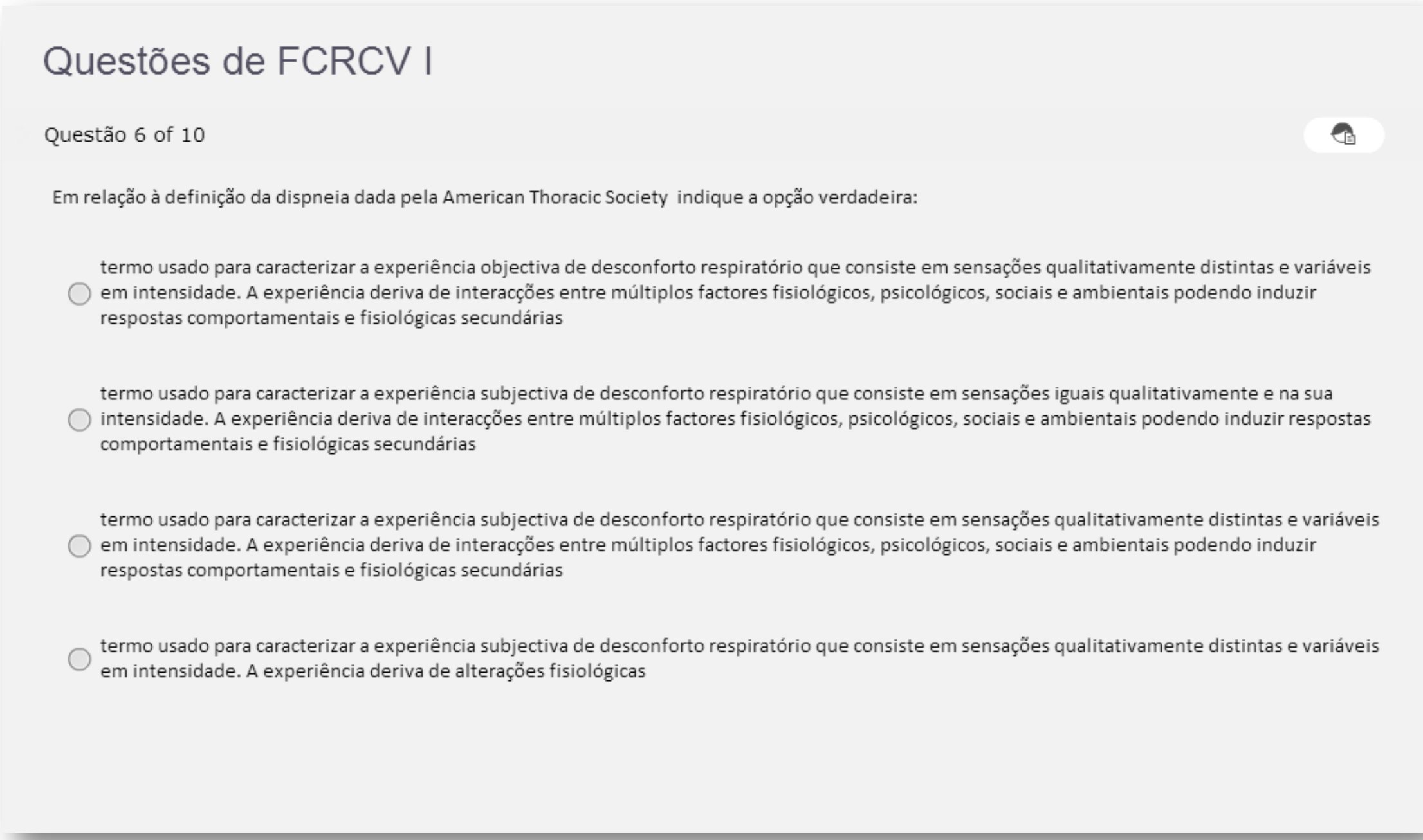
The aim of this study was to implement and evaluate the use of information and communication technology (ICT) tools like Wikis and Online quizzes as innovative means of teaching and learning. We also try with this project to promote in physiotherapy students (bachelor level) the creation of knowledge, collaboration, self-assessment and becoming more explicit in their clinical reasoning process.

Methodology

In this project we selected students (bachelor level) enrolled in the curricular unit related to cardiorespiratory physiotherapy provided by institution.

After implementation, two types of evaluation were performed using a questionnaire, in the middle of the process to perform peer assessment, with questions about format and content, and a final evaluation at the end of the process centered on the student feedback about all the process.

Descriptive analyse were perform about the ICT usage and satisfaction, and also qualitative analysis of the students feedback



Conclusions/Implications

With this project the students created a collaborative and evolutive reference book in the topic of Cardio-Respiratory Physiotherapy using several sources of information and Online quizzes as a resource to develop and validate competences in this area. The students reported a good overall satisfaction, mainly in the creation and use of the Wiki as a learning tool.

The future challenge is the dissemination of this resources and methodology’s through the entire physiotherapy course in all the different areas of physiotherapy practice. The integration of ICT tools into the teaching/learning and curriculum in physiotherapy education could facilitate and promote reflexion, groupwork, peer-assessment and autonomous perspective towards education and lifelong learning. The basis of an every evolving reflective professional.

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