Problem Based Learning in Neurophysiology through the WEBCT Platform 6.2 UCM Virtual Campus


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Abstract

Our project for the problem based learning (PBL) of Neurophysiology through the WebCT platform 6.2 Complutense University of Madrid (UCM) Virtual Campus is based on the essential role of the Information and Communication Technologies (ICT) as new methods of teaching physiology within the European Higher Education Area (EHEA). PBL of Neurophysiology has been carried out by a group of twelve teachers in Physiology, with extensive teaching experience from the Faculty of Pharmacy at the UCM in "Morphology, Histology and Cell Physiology " and " Physiology ", subjects included in the first cycle of the Bachelor of Pharmacy. Use of the PBL as a support to-face instruction (theory and practice) has significantly improved the acquisition of knowledge concerning the mechanisms of regulation and integration features of Neurophysiology. The students had presentations on the Web with a detailed summary of the fundamental conceptual basis of each item, as well as self-assessment tests of increasing complexity, correctness and a filter that automatically prevented the passage to a higher level of complexity without having acquired the minimum knowledge set in earlier. This together with the consultation of questions through e-mail provided to a large extent, the understanding of the contents covered. Of note is the excellent reception by students, the implementation of these problem cases in the Virtual Campus. In summary, the teaching work performed, overall, favoured a more active, autonomous, sustainable, cooperative and critical attitude of students in their learning process.

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