

Development of an interactive CD-ROM for teaching unit operations to pharmacy students

Tapia, Cristián

Sapag-Hagar, Jaime

Muller, Mauricio

Valenzuela, Fernando

Basualto, Carlos

Zunino, Gian Franco

The objective of this work was to develop an educational CD-ROM as a complement to the traditional practical-theoretical teaching of unit operations to pharmacy students. The CD-ROM has five main themes. Three of them correspond to the main types of pharmaceutical products which are manufactured in the pharmaceutical industry, another is dedicated to the services necessary for the pharmaceutical production, and the last one is a library with web directions. The conceptual development of the navigation tree design begins with the known elements (pharmaceutical dosage form or service) and then going to the manufacture process (diagram of flowsheet process), and finally to the specific unit operation used in the process. A self-evaluation section was developed which allows the student to evaluate his/her knowledge by facing practical situations (multiple choice questions), designing process of multiple steps (puzzles), and developing calculations skills by solving exercises based on commo