

WEB ページを用いた薬剤師向け実践的知識修得型 e-Learning システムの開発

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Development of a web-based educational system for pharmacists to acquire the practical knowledge for proper use of drugs

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Abstract

Objectives: The aim of this study was to develop an e-learning system by that enables pharmacists to acquire the practical knowledge for proper use of drugs. We made the contents of the system with improved concept to more efficiently provide drug information in comparison to the conventional ways, along with the practical application and evidence of drug information.

Methods: A world wide web page-based educational system was constructed for donepezil hydrochloride (Aricept[®]), which is used for the treatment of Alzheimer's disease. The user's answers were judged by a user's browser using JavaScript.

Results: The website consists of eight episodes with essential issues for the proper use of donepezil hydrochloride. Each episode consists of the question section and commentary section. The question section has two or three multiple-choice questions for each issue. The developed learning system has advantage over the conventional methods to provide drug information. Three episodes were opened to the public on the server of Eisai Ltd. in October 2004, and the five episodes were additionally uploaded by October 2005. The visitors to the index and episode pages numbered was about 16,000 within six months after the opening and the highest number of daily accesses was 971.

Conclusions: The developed e-learning system may become a useful medium for the pharmacists to acquire the practical knowledge of drugs to promote proper use of drugs, and to avoid medication errors.

Key words: proper use of drugs, e-learning, medication errors, world wide web