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Web e-learning

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Pharmacists' questionnaire and development of WWW-based e-learning for pharmacists to promote proper use of S-1 (TS-1; tegafur, gimeracil, oteracil potassium)

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Abstract

Objective: S-1, an oral fluoropyrimidine, may cause serious adverse reactions when used improperly. For example, S-1 is contraindicated to patients taking another fluoropyrimidine. Pharmacists are expected to play important roles in proper use of S-1. To promote proper use of S-1, we planed to develop an e-learning system of S-1 for pharmacists.

Methods: First, we sent a questionnaire to pharmacists to survey the present situation of the prescription inquiry about S-1 by pharmacists. Next, we developed a WWW-based e-leaning system to promote proper use of S-1 and evaluate the effectiveness of this program.

Results: Replies were received from a total of 300 pharmacists. Although 60-89% of pharmacists contacted the doctor who prescribed S-1 improperly, only 26-67% of the improper prescriptions were revised.

Log analysis of the e-learning system revealed that pharmacists who have experience in dealing with S-1 answered more correctly than those who have never dealt with S-1. As a result of program evaluation by pharmacists who used this e-learning system, 99.4% of respondents answered that this e-learning program is very useful or useful.

Conclusions: E-mail questionnaire for pharmacist is useful for gathering information about usages of medicines in practical clinic. The developed e-learning system was considered to be effective to promote proper use of S-1.

Key words: Information Services, Education, Pharmacy, Internet, Education, Distance, Computer-Assisted Instruction