

A novel AIDS/HIV intelligent medical consulting system based on expert systems

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ABSTRACT

Background: The purpose of this paper is to propose a novel intelligent model for AIDS/HIV data based on expert system and using it for developing an intelligent medical consulting system for AIDS/HIV. **Materials and Methods:** In this descriptive research, 752 frequently asked questions (FAQs) about AIDS/HIV are gathered from numerous websites about this disease. To perform the data mining and extracting the intelligent model, the 6 stages of Crisp method has been completed for FAQs. The 6 stages include: Business understanding, data understanding, data preparation, modelling, evaluation and deployment. C5.0 Tree classification algorithm is used for modelling. Also, rational unified process (RUP) is used to develop the web-based medical consulting software. Stages of RUP are as follows: Inception, elaboration, construction and transition. The intelligent developed model has been used in the infrastructure of the software and based on client's inquiry and keywords related FAQs are displayed to the client, according to the rank. FAQs' ranks are gradually determined considering clients reading it. Based on displayed FAQs, test and entertainment links are also displayed. **Result:** The accuracy of the AIDS/HIV intelligent web-based medical consulting system is estimated to be 78.76%. **Conclusion:** AIDS/HIV medical consulting systems have been developed using intelligent infrastructure. Being equipped with an intelligent model, providing consulting services on systematic textual data and providing side services based on client's activities causes the implemented system to be unique. The research has been approved by Iranian Ministry of Health and Medical Education for being practical.

Key words: AIDS/HIV, data mining, intelligent system, medical informatics, software engineering, text mining

INTRODUCTION

This paper is about designing a novel AIDS/HIV intelligent medical consulting system based on expert systems. Intelligent

medical systems are those which use the knowledge of medical experts in their infrastructure and serve their clients on this basis.^[1] Medical fields are exposed to ever-growing information which can be used to enhance healthcare and treatment quality. On the other hand, data mining plays an important role in medical consulting, diagnosing, prevention and treatment methods in regard to patient's problems. The necessity of utilizing intelligent web-based medical consulting systems can be well understood, considering current non-intelligent systems having problems in providing fast and online services to the clients. Since, the answer should go through a long and time-consuming procedure consisting of various methods including revisiting the system, vocal calls and sending email in daily intervals. Furthermore, web-based intelligent medical consulting is up-to-date, which is essential for clients to put their faith and propagate using the system.

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