Original Article

# 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

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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 potient'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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emergence of resistance to antiviral agents Without question molecular biology owes more to the study of viruses than bacteria The fact remains however that effective therapy against most viral diseases is not yet available Perhaps one of the most dramatic examples of this situation is the fight against the AIDS virus and the search for a vaccine The public health challenge of AIDS remains formidable in spite of the recent encouraging results obtained with protease inhibitor therapy At the moment at least six receptors for HIV are known to be present in human cells One of them is the CCR5 receptor in the absence of which cells fail to get infected with the virus Drugs that can interrupt CCR5 binding sites on the virus envelope are being vigorously sought Thus Volume 9B gives a large place to HIV disease The last group of chapters highlight several features of microbiology which are also of clinical importance and heuristic value The chapter on fever of unknown origin provides fertile soil for problem based learning Magill's Medical Guide Anne Chang, 2005 Thrombolytic therapy TPA Thrombosis thrombus Thumb sucking Thyroid disorders Thyroid gland Thyroidectomy Tics Toilet training Tonsillectomy adenoid removal Tonsillitis Tooth extraction Toothache Torticollis Touch Tourette s syndrome Toxemia Toxic shock syndrome Toxicology Toxoplasmosis Tracheostomy Trachoma Transfusion Transient ischemic attacks TIAs Transplantation Tremors Trichinosis Trichomoniasis Tropical medicine Tubal ligation Tuberculosis Tumor removal Tumors Turner syndrome Typhoid fever typhus Ulcer surgery Ulcers Ultrasonography Umbilical cord Unconsciousness Upper extremities Urethritis Urinalysis Urinary disorders Urinary system Urology Urology pediatric Vagotomy Varicose vein removal Varicose veins Vascular medicine Vascular system Vasectomy Venous insufficiency Veterinary medicine Viral infections Visual disorders Vitamins minerals Voice vocal cord disorders Von Willebrand s disease Warts Weaning Weight loss gain Weight loss medications Well baby examinations West Nile virus Whiplash Whooping cough Wilson's disease Wisdom teeth Wiskott Aldrich syndrome World Health Organization Worms Wounds Wrinkles Xenotransplantation Yellow fever Yoga Zoonoses Glossary Diseases Other Medical Conditions Types of Health Care Providers Medical Journals Web Site Directory Entries by Anatomy or System The Biotech Business Handbook Michael G. Pappas, 2012-12-06 One Affected Entries by Specialties Related Fields comment often repeated to me by coworkers in the biotechnology industry deals with their frustration at not understanding how their particular roles fit into their company s overall scheme for developing manufacturing and marketing biomedical products Although these workers know their fields of specialty and responsibilities very well whether it be in product research and development regulatory affairs manufacturing packaging quality control or marketing and sales they for the most part lack an understanding of precisely how their own contributory pieces fit into the overall scheme of the corporate biotechnology puzzle The Biotech Business Handbook was written to assist the biotechnologist whether a tech nician senior scientist manager marketing representative or college student interested in entering the field in building a practical knowledge base of the rapidly expanding and maturing biotechnology segment of the healthcare industry Because biotechnology in the United States and abroad covers many disciplines much of the information presented in this book deals

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