Abstract

Expert systems are software that uses knowledge base of human expertise for problem solving, or to clarify uncertainties where one or more human experts would need to be consulted. Typhoid fever is an infection caused by a bacterium known as Salmonella enterica serovar Typhi and rampant in developing nations with over 21.6 million cases and at least 250,000 deaths occurring annually. Victims when not diagnosed and treated in time fears death. Hence, this research work present a computer based treatment modality inform of an expert system, accessible on computers and mobile devices with internet browser. The expert system was developed using PHP server side scripting language and HTML 5.0. Media queries are used to ensure the expert system interface readjust itself to clients screen and Mysql as the database to store various symptoms, severity level and prescriptions for differentials of typhoid fever. Symptoms and prescriptions were sourced from internet to populate the database. The developed application was tested using apache server on a local network and random symptoms were selected to view prescriptions and diagnosis. The research showed that larger populace can be reached, helped and treated for typhoid in cases where doctors are not accessible, available or on industrial strike action when the application is deployed online and
Mobile Compactable Expert System for the Treatment of Typhoid Fever in Developing Countries

well publicized.

References

- Sehgal, U. 2012. Introduction to expert systems.

Index Terms

Computer Science  Artificial Intelligence

Keywords

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