DESIGN AND DEVELOPMENT OF EXPERT SYSTEM FOR RESPIRATORY TRACT INFECTIONS DISEASE USING FUZZY LOGIC

ABSTRACT

In this world of technology development can have an impact in every aspect of life, which one is in the medical world. In the medical world the role of a doctor is very important to diagnose a disease. However, a doctor still has limitations in performing the diagnosis of patients. This requires a system that can help the doctor's role in diagnosing a disease, the expert system. An expert system is a computer program that has a similar function as the working of an expert in solving the problem. A doctor can not say absolutely that if a symptom experienced by patients, it stands to reason that patients suffer a particular disease. Some diseases may have similar symptoms, but the difference is the intensity of pain. It's needed a system that could provide a rapid diagnosis of the disease and are able to handle such problems. One of the solutions that can be used is the Fuzzy Logic. Design and Development of Expert System For Respiratory Tract Infections Diseases is necessary a solution to solve this problem. This study was made by using PHP programming language and MySQL database. The accuracy of disease’s diagnosis reached 85%.

Keywords: Expert Systems, Fuzzy Logic, PHP, MySQL, Respiratory Tract Infections Disease