ABSTRACT

EXPERT SYSTEM
TO DIAGNOSE VERTIGO DISEASE
WITH BACKWARD CHAINING METHOD
WEB BASED

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Expert system is a computer based system using knowledge, fact, and logical technique in solving a problem which usually can be solve by the expert in a certain field. Expert system can be applied in various fields, included in medical field, by diagnosing a disease.

Expert system in this research is a system which is used to diagnose vertigo disease which is classified on vestibular canal damage; there are peripheral vertigo and central vertigo. Diagnosing vertigo disease process begin by, user answer some questions from system based on their own suffered disease. This expert system has dynamic characteristic, It means the user who has access right as pakar is able to manage knowledge along with the development of recent knowledge. The used inference method is backward chaining method and depth first search as a searching method. It is web based expert system. It's accessible whenever and wherever by people when they are connected with internet and it built by using PHP programming language and MySQL database.

The built system can give the additional information about vertigo beside the information from the doctor and also give the conclusion of the diagnosing result about the suffered disease especially vertigo base on the answers of the patients. The additional facilities of knowledge and the change of rules make the system can be renewed without change the programming structures.

Keywords : Expert system, backward chaining, depth first search, PHP dan MySQL