ABSTRACT

EXPERT SYSTEM TO DIAGNOSE ANXIETY DISORDERS USING WEB-BASED FORWARD CHAINING METHOD

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Anxiety disorders are psychological conditions characterized by excessive feelings of anxiety, which have the potential to hinder daily activities. According to data from the Association of Indonesian Mental Medicine Specialists (PDSKJI), the outcomes of the analysis were 14,988. people in the 2020-2022 period show an increase in cases of anxiety disorders every year. The percentage of individuals experiencing anxiety was recorded at 68.8% in 2020, increasing to 76.1% in 2021, and decreasing slightly to 75.8% in 2022. This research aims to design a web-based expert system to support users in diagnosing anxiety disorders using the Forward Chaining approach. This system was built as an initial diagnosis tool to provide direction to users to determine the next steps in treating their anxiety disorders. Information collection this investigation was conducted using references in various scientific journals as well as data from RSUD Prof. Margono, which focuses on medical records of inpatients during 2022. This expert system implements the Forward Chaining method to draw conclusions based on symptoms entered by the user. To measure the effectiveness of the system, two types of testing are carried out, namely black box and validation evaluation. The results of validation trials show a system accuracy level of 83.3%, while black box testing results show a system feasibility level of 94%. By implementing this web-based expert system, it is hoped that users can obtain an initial diagnosis related to anxiety disorders more quickly and accurately.

Keywords: Anxiety, Backward Chaining, Blackbox, Expert System, Website.