Abstract

Digestive system disorders are dangerous diseases. Lack of awareness of public health is still low, life habits, behavior and mindset that want to live practically, a means of delivering information about diseases that are still lacking, and the lack of medical personnel is a problem, therefore an expert system application is needed to diagnose disease on the web-based digestive system. By providing certainty in the form of a percentage, then using the calculation through symptoms chosen by the user of each symptom has a density value, the density value is obtained from the results of interviews with doctors. Web-based E-Diagnostics for digestive system disorders uses the Dempster Shafer method which is expected to help users by providing information on disease diagnosis and solutions that can be done to help cure it, the Dempster Shafer Method has the ability to provide a high level of accuracy or certainty, which
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method this has characteristics that are in accordance with the way an expert thinks. This web-based expert system application will display symptoms that can be selected by the user to get the final results in the form of rapid disease diagnoses and suggestions for prevention in order to find out information in the form of diagnoses of diseases of the digestive system. Based on the calculation of accuracy that has been done in this study, it can be seen that the Dempster Shafer Method is the method that has the highest value with 85% confidence compared to the Certainty Factor Method with a value of 60%.

References

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Expert System, E-Diagnostic, Digestive, Dempster Shafer.