

## **ABSTRACT**

### **AN EXPERT SYSTEM FOR DIAGNOSING DISEASES DUE TO NUTRITIONAL DISORDERS USING SYMMETRIC PROBABILITY ALGORITHM**

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*This research aims to create an expert system to diagnose diseases due to nutritional disorders using the symmetric probability algorithm at Nusa Indah Health Center Bengkulu. Disturbances in nutritional balance can cause a person's performance in activities to be not optimal and can even cause diseases that will interfere with daily routines. The lack of knowledge and concern for nutritional balance in the body is the cause of this disorder. This expert system was created using the PHP programming language and MySQL database. This research uses the Symmetric Probability Algorithm, with this algorithm can provide a percentage of the final results of diagnosing diseases due to nutritional disorders. This expert system can be used as an initial solution in consulting about diseases due to nutritional disorders online. This expert system can be used by users as one of the applications that can provide assistance in the initial diagnosis of diseases due to nutritional disorders in adults online.*

**Keywords:** *Expert System, Symmetric Probability, Nutritional Disorders*

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