An Expert System for Diagnosis of Blood Disorder

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Abstract

The mortality rates in medical sector have given birth to most technology that aids in treatment of diverse ailments. The commencement of technology era in the 20 century gives a great mark to the limit of unnecessary element that causes mortality. As time is one of the major elements that deal with mortality issue, this however give birth to this research as it stands out to help in reducing the time that is used in attending to a critical patient medical condition. This is to aid the doctors and other medical practioners in attending and prescribing treatment to patients. Hence, this research takes blood disorders into consideration by finding a way to solve the issue in human being. Apart from solving or diagnosing, the need to give treatment in order to make the system more useful is necessary. This then make the research to be exposed to very large information that is taking down from two hospitals which was taken as the case study of the research. The hospitals used include UCH Ibadan and FMC Idiaba-Abeokuta both in Nigeria, West Africa. The information was gathered from the hematology department and the blood department of the two hospitals respectively. The information gotten was analyzed and manipulated based on the symptoms and causes of the blood diseases/disorders and then turned into rules for easy programming into the computer. Also, forward chain and backward
chain approach are used to analyze the blood disorder in which gives flexibility to the doctors on knowing more about a disease or diagnosing a patient through the system.

References

- P. Santosh Kumar Patra, 2010 An Expert System for Diagnosis of Human Diseases

Index Terms

Computer Science Artificial Intelligence

Keywords

Expert System (ES) Medical Expert System (MES) Blood Disorder System (BDS)
Forward Chain Approach (FCA)
Backward Chain Approach (BCA)
Rule Base Expert System (RBES)