ABSTRACT

DIAGNOSTIC SYSTEM FOR ORTHOPEDIC SURGERY IN PATIENTS USING THE FORWARD CHAINING ALGORITHM

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Osteoarthritis is a health problem that causes pain in the knees, hips, or lower back which causes joint stiffness and gives pain. Treatment of osteoarthritis can be done by surgery, but choosing the right type of surgery for each patient can be a challenge for orthopedic specialists because of the complexity and diversity of types of disease and orthopedic surgery. Currently, there is still no system that can assist doctors in deciding the type of orthopedic surgery. This study aims to produce a diagnostic system for orthopedic surgery on patients. The diagnosis process is carried out using the forward chaining method. The results showed that this system was successfully constructed and provided results of the type of orthopedic surgery. An expert system is not the same as a decision support system, so it is not a recommendation, but a diagnosis based on an analysis of symptoms like an expert's way of working.

Keywords : *Expert System,* Osteoarthritis, *Forward Chaining, Orthopedics.*

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