ABSTRACT

Early Detection System for Atopic Dermatitis Skin Allergic Disease Using Forward Chaining Method Web-based

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Atopic dermatitis (AD) is a chronic inflammatory skin disease that arises with itchy feeling on the area. It is very common that babies catch this symptoms, and they gradually get better at teens and older. But in some cases, this skin disease stays for a long time and even starts to arise at adults. In general, if a pasient have this skin disease, they have to see a dermatologist to do a consultation. But skin experts cannot always be in the clinic any time, so sometimes patients have difficulty arranging appointments. With an expert system for detecting skin allergic diseases, patienst can detect early stage and get a brief understanding of atopic dermatitis.This system runs at web-based using Forward Chaining method. The system will guide users to answer a number of questions on the symptoms experienced by the user. After completing all of these questions, the system will display a conclusion type of skin disease experienced by the patient. The forward chaining method works by collecting every symptom experienced by the patient, matching the symptoms that have been collected with the rules that have been made, then making conclusions based on these rules. This expert system can help humans to be able to detect early atopic dermatitis without having to meet an expert or specialist and then be able to take preventive or simple treatment.

Keywords: *Disease Early Detection Expert System, Atopic dermatitis, Web, Forward Chaining*

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