DESIGNING KNOWLEDGE MANAGEMENT SYSTEM IN TROPICAL DISEASES TREATMENT WITH COGNITIVE ERGONOMY PRINCIPLES COMPLIANCE

Name : FARIZ IHSAN PUTRA
NRP : 2506100052
Department : Industrial Engineering, FTI-ITS
Supervisor : Arief Rahman, ST, M.Sc
Co-Supervisor : Adithya Sudiarno, ST, MT

Abstract

Tropical diseases are transmitted through various media and have very high risk to humans because the rapid advance of human growth. Particularly in developing countries like Indonesia, tropical diseases could hardly be controlled. Tropical diseases are supported by several factors such as transmission of diseases parasites (agent) and the host disease. Knowledge regarding the factors of the disease is very important in the treatment of tropical diseases. Therefore, the design of knowledge management system is needed, and the system should be managed continuous so it could be easily exploited by the parties concerned. This is necessary, because the development of the tropical disease is very rapid, and requires the continuous renewable knowledge to compensate that. In managing the knowledge of tropical diseases, the case-based reasoning method is used because it can generate a sustainable model of knowledge development. In addition, the fulfillment of the cognitive process needs to be considered to ensure that knowledge can be delivered accurately, which to be implemented by Applied Cognitive Work Analysis (ACWA), because ACWA could accommodate those needs.
Keywords: Tropical diseases, Knowledge Management System, Case Based Reasoning, Applied Cognitive Work Analysis