

## ***Abstract***

*One of the factors that led Indonesian people to be less concerned about the dental healthcare is due to high cost. Though the condition of the teeth and mouth can reveal early symptoms of dangerous diseases. By trying to apply knowledge of dental health experts into an expert system, is expected to help the patient to be able to detect dental disease suffered earlier and help the experts in diagnosing a patient's disease so as to minimize the occurrence of fault diagnosis.*

*In this research, it is developed an expert system for diagnosing dental disease using Induct/Ripple Down Rules (Induct/RDR). By using Induct/RDR, expert systems will be able to perform the knowledge acquisition process very quickly, has a low error rate, and low cost, because it can be done without the help of knowledge engineer.*

*Tests carried out by using 30 data of the patient's medical history owned by drg. Sudarti. Based on the results of testing, Induct/RDR methods is able to generate a knowledge base with appropriate and able to perform diagnosis of dental disease with a fairly high degree of accuracy.*

*Keywords : expert system, Induct/Ripple Down Rules, knowledge engineer.*