

**Perancangan Dan Pembuatan Aplikasi Sistem Pakar Diagnosis  
Penyakit infeksi Dengan Menggunakan Metode *Certainty Factor***  
*(Design and Development of an Expert System Application Using the  
Certainty Factor Method to Infection Disease*  
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**ABSTRACT**

*The high prevalence of infection disease in Banyuwangi Regency and the dearth of public awareness regarding the early symptoms of this disease are issues that must be immediately overcome since they can attack the health system of the human body and lead to complications. Infectious disease is the highest level namely pulpitis and followed by other infectious disease, base on data in 2019 at Banyuwangi regency. This study aimed to design and develop a web-based application for the early detection of infection disease quickly and accurately using the waterfall system development and certainty factor methods and analyze application user needs. The data was collected through interviews, observations, and documentation with information systems, database officers, and doctors. The study's findings indicated that web-based infection disease early detection applications at Banyuwangi health department were expected to be beneficial and facilitate officers or doctors to supervise public health figures related to infectious disease. It is recommended to conduct additional research to include a region map in the report section.*

*Keywords: Application, Certainty Factor, Expert system, Early Detection,  
Infection*