Geographic Information System Typhoid Fever Disease Website Based in Jember District Year 2013-2015, Paramita Maharani, NIM G41130801, Year 2017, Medical Records, Polytechnic of Jember, dr. Novita Nuraini, MARS (Supervisor 1), Sustin Farlinda, S.Kom., MT (Supervisor 2)

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ABSTRACT

Typhoid Fever Disease is one of the endemic infectious diseases caused by *Salmonella Thyphi*. Based on Indonesia Health Profile (2012), Typhoid fever ranked third of 10 major diseases in public hospitals with 355 cases per year. Typhoid fever in Jember District was ranked 9 out of the top ten diseases with prevalence 3.7%. In 2011 the number of people with typhoid are 1029 people, in 2012 are 15994 people, in 2013 are 18950 people, in 2014 are 18649 people and in 2015 are 18768 people. It is necessary to monitor intensively to decrease the incidence rate of Typhoid Fever. Monitoring can be done easily using Geographic Information System Spread of Typhoid Fever Website Based in Jember District. The objective of this research aims to map the areas related to the spread of Typhoid Fever in Jember District. Analysing technique of this research is secondary data quantitative descriptive. Quantum GIS is used to create map and MySQL as database for save data. The results of this research is a geographic information system that showing the incidence rate of Typhoid Fever in Jember District. The digital map shows information such as the number of people with typhoid fever per sub district, population density, sex based patients, access to healthy latrines, access to clean water sanitation. The map is equipped with color gradation as an indicator of the low case of Typhoid Fever in each sub district. This geography information expected to be used by the Jember Health Office as a reference for decision making on the occurrence of Typhoid Fever and information media for the community.

Keywords: Mapping, Typhoid Fever analysis, Website, Geographic Information System