

Pemetaan Dan Analisis Geografis Persebaran Penyakit Kusta Di Kabupaten Jember Tahun 2012-2016 Menggunakan Aplikasi Arcview 3.2 (*Mapping and Analysis geographic Distribution of Leprosy in Jember Year 2012-2016 Applications Using ArcView 3.2*).

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ABSTRACT

Leprosy / Marbus Hansen is an infectious disease caused by leprosy Mycobacterium leprae (M. leprae) and attacks almost all organs, especially the peripheral nerves and skin, and other organs such as the oral mucosa, upper respiratory tract, reticuloendothelial system, eyes, muscles, bones and testicles. These leprosy bacteria multiply within 2-3 weeks. This bacterium is able to survive outside the human body for up to 9 days, even leprosy bacteria are able to survive in the incubation period of 2-5 years. Treatment of leprosy is to suppress bacterial proliferation so it does not spread to other parts of the skin (Rohmad, 2012). One of the information needed by the community at this time is the need for geographical information. Thus, to manage this complex data needed an integrated information system capable of processing spatial data effectively and efficiently. According to the profile of the East Java Province of East Java Province 2012, revealed that Indonesian leprosy sufferers ranked third under India and Brazil as many as 18,853 cases. East Java Province is the largest contributor to leprosy among other provinces as many as 4,807 cases. Analyzing geographical factors that affect the spread of leprosy in Jember Regency. Therefore, mapping is done using GIS. The purpose of this study was to map and analyze the spread of leprosy in Jember Regency in 2012-2016 using the ArcView 3.2 application. The research method used is quantitative descriptive. The conclusion is that air temperature, rainfall and altitude can affect the spread of leprosy in Jember Regency. Suggestions should be awareness from residents to build houses that are not too close to one another, have adequate ventilation so that the house is not too muddy, leprae germs can be used to breed and the need for rainfall data and air temperature according to the District.

Keywords : Leprosy , GIS , ArcView