

Abstract

By Wiwik Setyaningsih

SPATIO-TEMPORAL ANALYSIS ON ENDEMICITY OF DENGUE HEMORRHAGIC FEVER IN SRAGEN DISTRICT, CENTRAL JAVA

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ABSTRACT

Background: In recent decades, the incidence of dengue hemorrhagic fever (DHF) has risen significantly around the world. In Indonesia, studies reported 77.96 cases per 100,000 person-years in 2016 with the highest average number of cases in West Java. This study aimed to investigate the spatio-temporal analysis on endemicity of dengue hemorrhagic fever in Sragen Regency, Central Java.

Subjects and Method: This was a descriptive study with cross-sectional design conducted in Sragen, Central Java from 2016 to 2018. A total of 1,354 cases was selected by total sampling. The main variable under study was the DHF incidence. The data were described by frequency distribution tables. Data were analyzed by spatio-temporal analysis method with overlay function using Geographic Information System (GIS).

Results: The spatio-temporal analysis showed an increased DHF incidence in all sub-districts in Sragen Regency for three consecutive years 2016 to 2018. The highest incidence was 94 cases per 100,000 population in 2016. Sragen Regency was considered endemic areas of DHF.

Conclusion: All sub-districts in Sragen Regency were endemic areas of DHF from 2016 to 2018.

Keywords: spatio-temporal analysis, GIS, DHF, endemic

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