

**APPLICATION OF GIS: A CASE STUDY OF DENGUE CASES IN ACCESSING
THE HIGH RISK AREA OF DENGUE IN GOMBAK AREA**

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Title

**Application of GIS: A Case Study of Dengue Cases in Accesing the High Risk
Area of Dengue in Gombak District**

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ABSTRACT

The number of dengue cases in Malaysia is concerning since it kept on increasing each and every year since *Aedes* mosquitoes are common in Malaysia. Gombak District is set to be the District with the quite high number of dengue cases in Selangor. This concerning needs an urgent survey to prevent for any potential diseases outbreak in the future. The focus of study is to access the location of the area with dengue cases and collect data to incorporated into Geographical Information System (GIS) analysis. This Geographical Information System (GIS) software is known and becoming one of the most user-friendly to do free mapping and have a lot of feature making tools to generate static map, overlaying map or even time-series map that make it easier for the people to see and visualize the current situation in certain places. In this current study that were made is to see the disease patterns and vector outbreak will be mapped with the help of Geographical Information System (GIS) and the analysis is then to identify the relation between high dengue cases with the type of housing or buildings to see which type of housing has a potential of the disease outbreak. The aims of this study are to provide of high-risk map of the location in Gombak District that has been reported with dengue cases and to discuss the method or ways that could be done to reduce the number of dengue cases in Gombak district as well as the country for the sake of the population.

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