



Analysis of the distribution of Malaria fever cases in Lagos state

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Abstract: This paper aims at the use of Geographic Information System (GIS) to analyze the distribution rate of malaria in Lagos state. The Lagos state general hospitals in all local government areas have been used for the case study. This study would help in decision making on how to control the disease by medical practitioners in the Lagos state ministry of health, National health authorities and other concerned such as World Health Organization (WHO).

The relevant data used in the development of the GIS database were derived from various sources. The attribute data were obtained from each of the general hospitals records office. The spatial data were obtained from the analogue map of Lagos state while the locations of the general hospitals were obtained with the use of hand held GPS units.

The GIS database was developed with the use of its components like hardware and software. The hardware was used for data storage, scanning of the analogue map, digitizing and georeferencing of the image, while the software was used to process, analyze the data and generate desired queries on information about malaria statistics in the general hospitals. The results of the query operations were displayed in digitized map form. Recommendations were also made for further study on the disease.

Keyword: Malaria, Data, Attribute, Spatial, Query, GIS, Hospital, Local Government