

Title	Development of an Epi-Phir Model as a Basis for Epidemiology Analytics with GIS of SIMC
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**ABSTRACT**

Geographic Information System (GIS) has emerged as an innovative and important component of many public health and epidemiology projects. The main goal of this research study was to design, create, and implement the system for the improvement of Epidemiology Analytics in Southern Isabela Medical Center (SIMC) and can springboard into a system that can be used at the National Level. The developed system operates under the different health programs of the SIMC, such as Patient Safety, Health Promotion, Infection Control, and Resource Management. It used SIMC’s historical records in processing health data analytics and health statistics for epidemiological case reporting purposes for better resource and risk management. The developed system met the ISO 25010 Software Quality Standards, as assessed by IT experts and users.

Keywords: Epidemiology, GIS, Geographical Information System, Health Analytics, Public Health