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**Advanced GIS Applications in Health Disaster Management\***

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## Advanced GIS Applications in Health Disaster Management

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**ABSTRACT:**

*Geographic Information Systems (GIS) provide a unique opportunity to integrate the various data types that impact a given population during a health crisis. Effective disaster management requires the integration and analysis of demographic, environmental, and infrastructure data, as well as the specific data about a given disease. There are slow and rapid onsets of 'health disasters', and both can be visualized and analyzed using GIS which makes geographic relationships, patterns, and trends apparent. A series of recent and cyclical health disasters will be discussed in the paper and the GIS technologies that were applied to each instance.*

**KEYWORDS:**

GIS, Health, Disaster Management, Web Mapping, Web GIS, Server, Mobile