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Health Risk Analysis for the Slum Dwellers of Midnapore Municipality: As a Future Trend of Disaster

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Abstract : ‘Health is wealth’ is common to all. In the same way, the health risk is misery to society. This study explores the major health risk neighborhoods and underlying factors across slum neighborhoods with distinct socio-economic entities. The data was collected from the 156 slum neighborhoods through the questionnaire survey, and selected variables were processed into SPSSv26, ArcGISv10.4, and the Remote sensing algorithm. PCA and Composite index were used to explore the health risks among the slum neighborhoods. The results indicate that most of the slum neighbourhoods are under a moderate level of health risk with high disease prevalence. Therefore, special care is needed to reduce the health risk among the slum neighborhoods with geo-environmental considerations.

Keywords: Personal hygiene; geospatial techniques; personal hygiene index (PHI); principal component analysis (PCA); SPSSv26; ArcGISv10.4; slum neighborhoods

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