

Abstract

Spatial Pattern and Causation Analysis of Childhood Cancer in Texas

Track: Health and Human Services

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The study of the distribution and determinants of a cancer in a specific population, especially during early childhood, is important to prevent the cancer at adulthood. In this research, we mapped the Texas childhood cancer incidence rate and relative risk, identified the high incidence clusters using spatial autocorrelation techniques, and explored the relationships between these clusters and their potential exposure to environment carcinogenic agents with spatial autoregressive models. An integrated spatial statistics system based on ArcObject and Matlab components is developed to accomplish the above analyses.

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