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Spatial distribution of tuberculosis and relationship with social conditions in county of Praia – Cape Verde (Africa) 2006 to 2012

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According to WHO Cape Verde has about a fifty percent incidence of under reporting of tuberculosis (TB). TB represents a public health problem in Cape Verde due to its high incidence, with a tendency to increase in recent years. The study aims to understand the spatial distribution of tuberculosis and associate it with socioeconomic factors such as HIV, density of occupants per household, economically active segment, and levels of illiteracy. This is an ecological study, the subject of which is individuals who were diagnosed with tuberculosis (TB) in the period from 2006 to 2012 in the neighborhoods of Praia city. The city's neighborhood distribution; demographic and social data from year 2010 census was used; TB cases were collected in health centers and in the Praia county Hospital and were aggregated by district of residence thereby obtaining data area. We used the geoda software for thematic maps of TB incidence rates in the neighborhoods of the Praia County. We used the Bayesian smoothing method and place of Empirical Global TB incidence rates. Georeferencing was done for the cases of tuberculosis, and disease incidence was calculated by neighborhood. Rates were softened and the Global Moran Index was calculated. The variables, density of occupants per household, economically active segment and illiteracy levels showed spatial autocorrelation. The illiteracy variable was inversely related to the rate of tuberculosis. The HIV variable showed a positive association. We hope that this study may help outline control strategies for the county of Praia, from the perspective of health promotion, for a disease so socially determined, as is the case of TB.

Biography

Ermelinda Furtado da Luz is student in State University of Rio de Janeiro, Brazil.

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