

IDENTIFICATION OF THE EXISTENCE OF SPATIAL PATTERN RANDOM IN THE DISTRIBUTION OF PATIENTS WITH PHYSICAL DISABILITY RESULTING FROM THE GENETIC DISEASE OF AACD OF PERNAMBUCO

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- **ABSTRACT:** *The term disability is increasingly discussed by the population, mainly through public policies for people with disabilities whether physical, mental, hearing or visual. The causes of disability may be associated with several factors, among them genetic, that cause rare disorders as the Lysosomal Storage (DDL) and neuromuscular disease (MND). The spatial mapping of disease has assumed an important role in public health, sustaining and directing decision-making and when possible the fostering of public policies. This work aimed to study the spatial distribution of patients with physical disabilities due to genetic disease treated at AACD Pernambuco applying the global Moran's I index as a way to measure the spatial distribution of the study patients and comparing the result obtained with the randomization test. It was concluded that the null hypothesis of random pattern could not be rejected for most of the criteria adopted neighborhood and show this information is important because they provide subsidies to public policy actions in identifying priority areas for the construction of service stations aimed, among other goals, reduce queues at the AACD unit in Recife.*
- **KEYWORDS:** *Spatial autocorrelation, Moran's I index; randomization test; physical disability; rare genetic disease.*

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