

A Spatial Analysis of Disparities on the Community Capacity for Cancer Prevention

Juofan Chen

Department of Biostatistics, Columbia University, New York, U.S.A

Community capacity is the ability of a community to respond to needs of its residents, and the documentation of disparities in availability of and access to prevention resources is an essential element in strengthening community capacity to reduce risks. Two spacial statistics based on distance measurement are hence proposed to quantify the availability and accessibility of prevention resources, median regression are then used to analysis the community disparity. Some selection criteria are also studied in the view of optimizing the goodness-of-fit. This is joint work with Ying Wei, Pamela Ransom and Steven Stellman.

[Juofan Chen, Department of Biostatistics, Columbia University, 722 West 168th St. New York, NY, 10025, U.S.A; jc2900@columbia.edu]