

The Spatial Equity Assessment of Community-based Elderly Care Facilities in Old Neighborhood of Chongqing

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Abstract : Old neighborhoods with a large elderly population depend on community-based elderly care facilities (community-based ECFs) for aging-in-place. Yet, due to scarce and scattered land, the facilities face inequitable distribution. This research uses spatial equity theory to measure the spatial equity of community based ECFs in old neighborhoods. Field surveys gather granular data and methods, including coverage rate, Gini coefficient, Lorenz curve and G2SFCA. The findings showed that coverage is substantial but does not indicate supply is a match to demand, nor does it imply superior accessibility. The key contribution is structuring spatial equity framework considering elderly residents' travel behavior. This study is dedicated to the international literature on spatial equity from the perspective of travel behavior and could provide valuable suggestions for the urban planning of old neighborhoods.

Keywords : community-based ECFs, elderly residents' travel behavior, old neighborhoods, spatial equity

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