

Analysis of Factors Affecting Chinese Residents' Health Based on Multi-layer Linear Model

ABSTRACT

Health is the foundation of all-round human development and the basic guarantee for people's lives. Health means that an individual is in good shape in three aspects: physical, mental and social. Health is a multi-dimensional and comprehensive concept.

The health status of residents is generally affected by economic, political and cultural aspects. Based on the relevant theoretical research, we use the per capita GDP, income gap, medical level and place of residence, gender, age, marital status, education level, occupation, per capita household income, social level to make research. This study use China's comprehensive social survey questionnaire data , and use descriptive statistical analysis and multi-layer linear regression model to analyze the influencing factors of residents' health.

The results of the analysis show that at the individual level, gender, education level, occupation, household income per capita and social rank have a significant positive impact on the health of residents. And marital status has a weaker impact on the health of residents. The impact of residence on the health of residents is not significant. Among them, the per capita household income has a significant positive impact on the health status, while the secondary item of per capita household income has a negative effect on the health of the residents, indicating that the relationship between personal income and residents' health is in a "U" relationship. That is, the health status of residents increases with the increase of personal income. When the personal income of residents reaches the highest point, the health of residents will decrease with the increase of personal income, and the contribution of income to health is marginal decline.

Key Words: Resident Health, Multi-level Linear Regression Model, Random effect model, Influencing Factors