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Practicum Site: V.U.M.C. - Cayce Homes Project

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Health Economic Evaluation of a Mixed-Income Housing Redevelopment Model at James A. Cayce Homes Neighborhood



Introduction: The mixed-income Envision Cayce redevelopment plan by the Metropolitan Development and Housing Agency (MDHA) aims to revitalize the James A. Cayce Homes neighborhood in East Nashville. The Department of Health Policy at Vanderbilt University Medical Center (VUMC) and Meharry Medical College are conducting a comprehensive community-health evaluation of the redevelopment project and its impacts on resident health and social well-being. This practicum integrated qualitative and quantitative research methods in order to analyze household survey data and administrative data, gathering insights on health status, health services utilization, and effect of health.

Methods: The study involved door-to-door canvassing across the Cayce Homes and CWA Plaza neighborhoods, asking residents aged 18 years or older to voluntarily complete a survey. The survey was developed in REDCap and consisted of various questions pertaining to physical health, mental health, nutrition, social environment, living situation, and community perspective. Study participants' blood pressure, electrocardiogram (EKG), and pulse rate were also measured. Participants received a \$20 Visa gift card after survey completion. R programming software was used to clean, consolidate, and analyze data through descriptive statistics.

Results: Excel was used to create a tracking model to assist in the survey data collection process. Data analysis was performed on basic demographic information, reported health status, insurance coverage status, health service utilization, physical health, mental health, and the effects of physical health. This preliminary analysis will support decision-making for following phases within the study.

Conclusions: To date, the ongoing study has collected over 150 surveys and aims to gather over 1,000 surveys in total. The overall study findings will provide strategic insights to the potential nationwide implementation of the MDHA model.