



9 Shelby County Zip Codes with Lowest Covid-19 Vaccination Rates and Highest Case Rates



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Background

The first case of COVID-19 in Shelby County, Tennessee occurred in early March 2020. As of 12/31/2023, there have been 317,618 cases and 9,783 associated hospitalizations. The public awareness of the epidemiological risk factors and clinical manifestations of Shelby County COVID-19 patients who have suffered severe outcomes can help policy makers strategize and clinical care providers formulate the most appropriate measures for better outcomes.

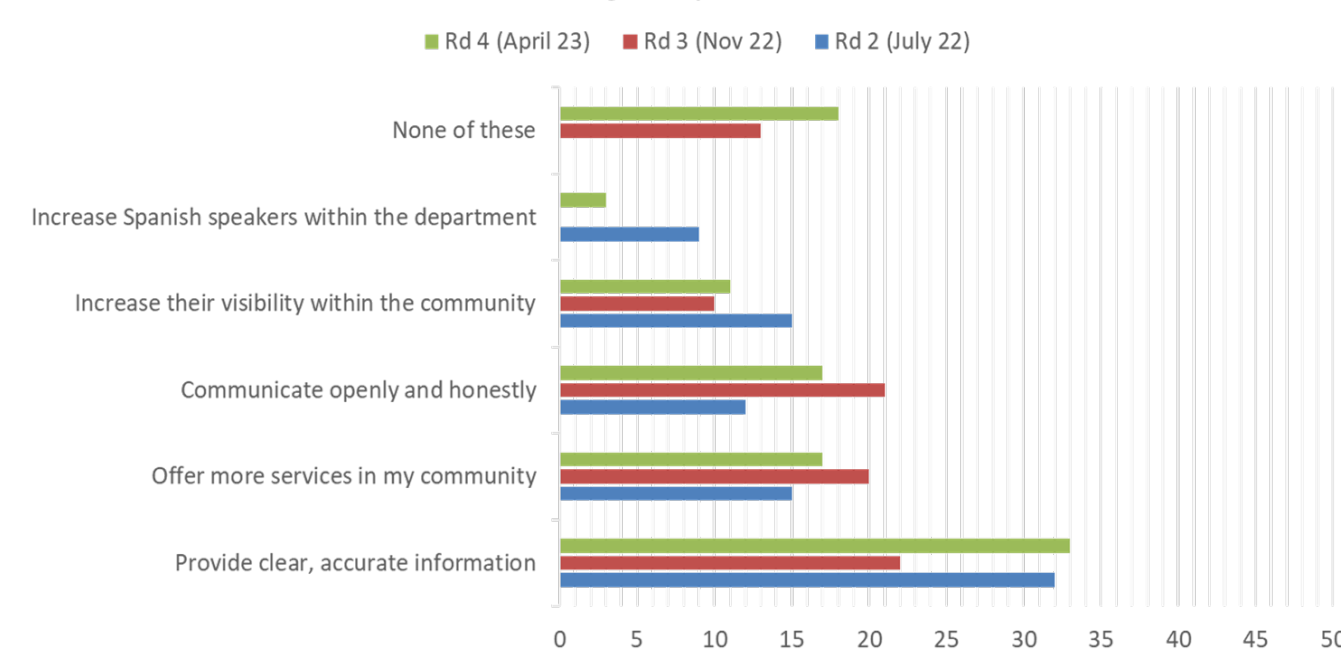
SCHD	U of M SPH	Leadership Memphis	LeMoyne-Owen College
<ul style="list-style-type: none"> Coordinate overall project efforts Collect, analyze, & disseminate COVID-19 data Deploy community health educators 	<ul style="list-style-type: none"> Obtain community perspectives on COVID-19 vaccine hesitancy Evaluate impact of Leadership Memphis' marketing campaign 	<ul style="list-style-type: none"> Design a culturally-tailored, multi-channel messaging campaign addressing vaccine hesitancy 	<ul style="list-style-type: none"> Deploy community health educators to increase vaccine uptake

Objectives

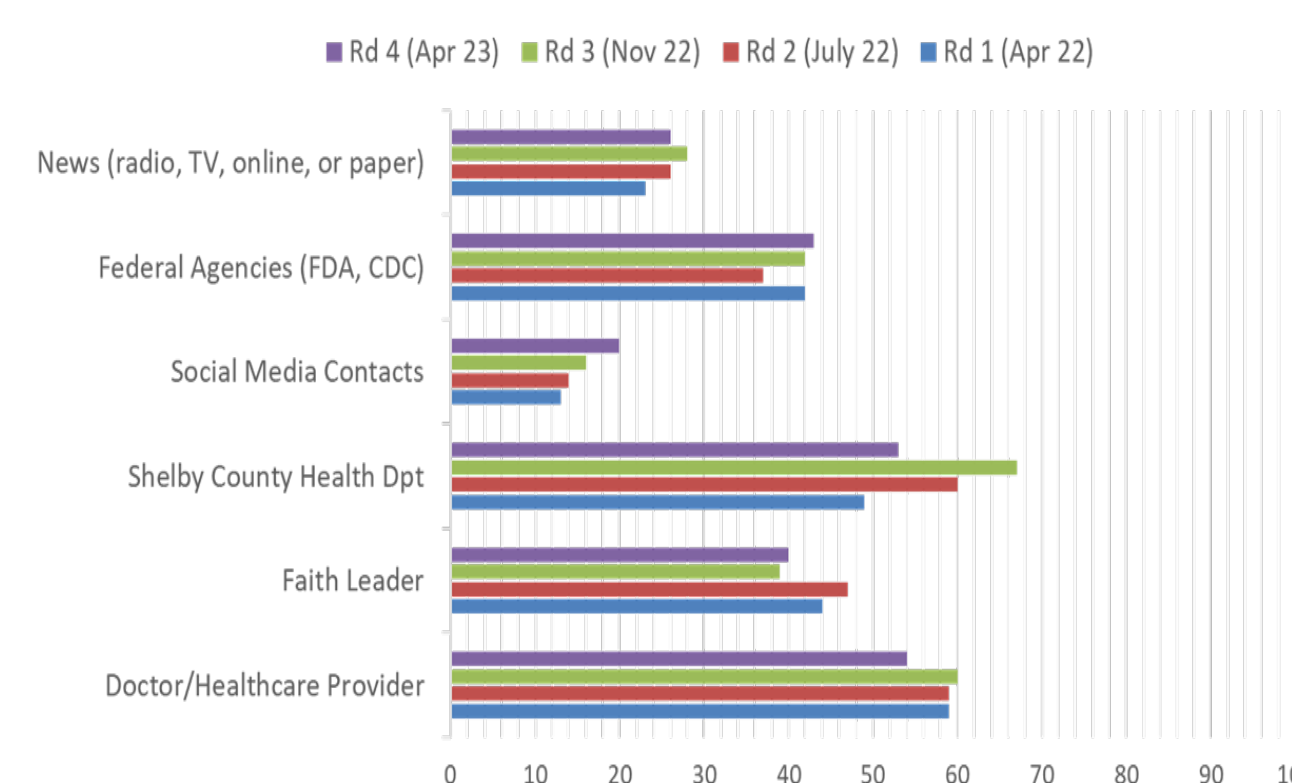
Identify barriers and motivators to COVID-19 immunization among vulnerable populations in Shelby County, TN of suspected overdose-related deaths.

Develop a messaging campaign to increase vaccine uptake among communities at high risk for Covid-19 disease due to low vaccination rates.

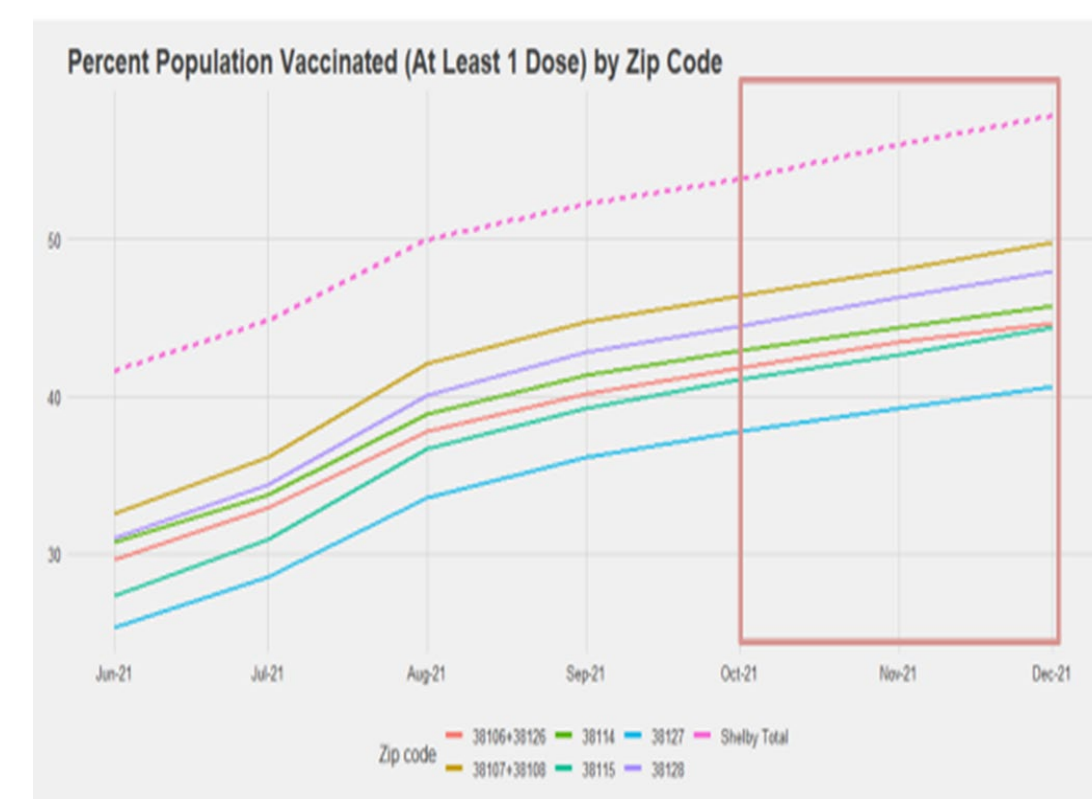
What is the most important thing the Health Dept could do to gain your trust?



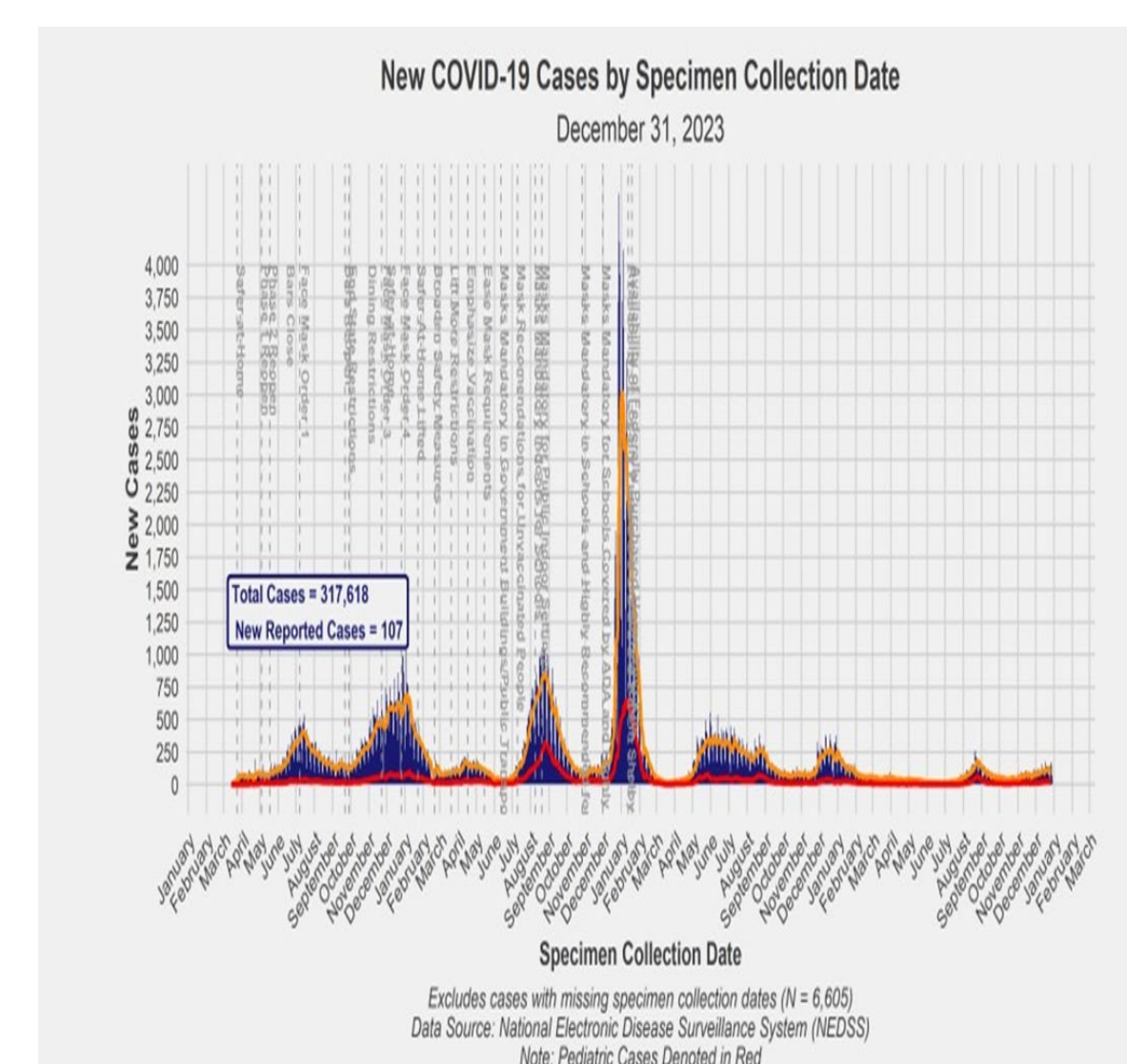
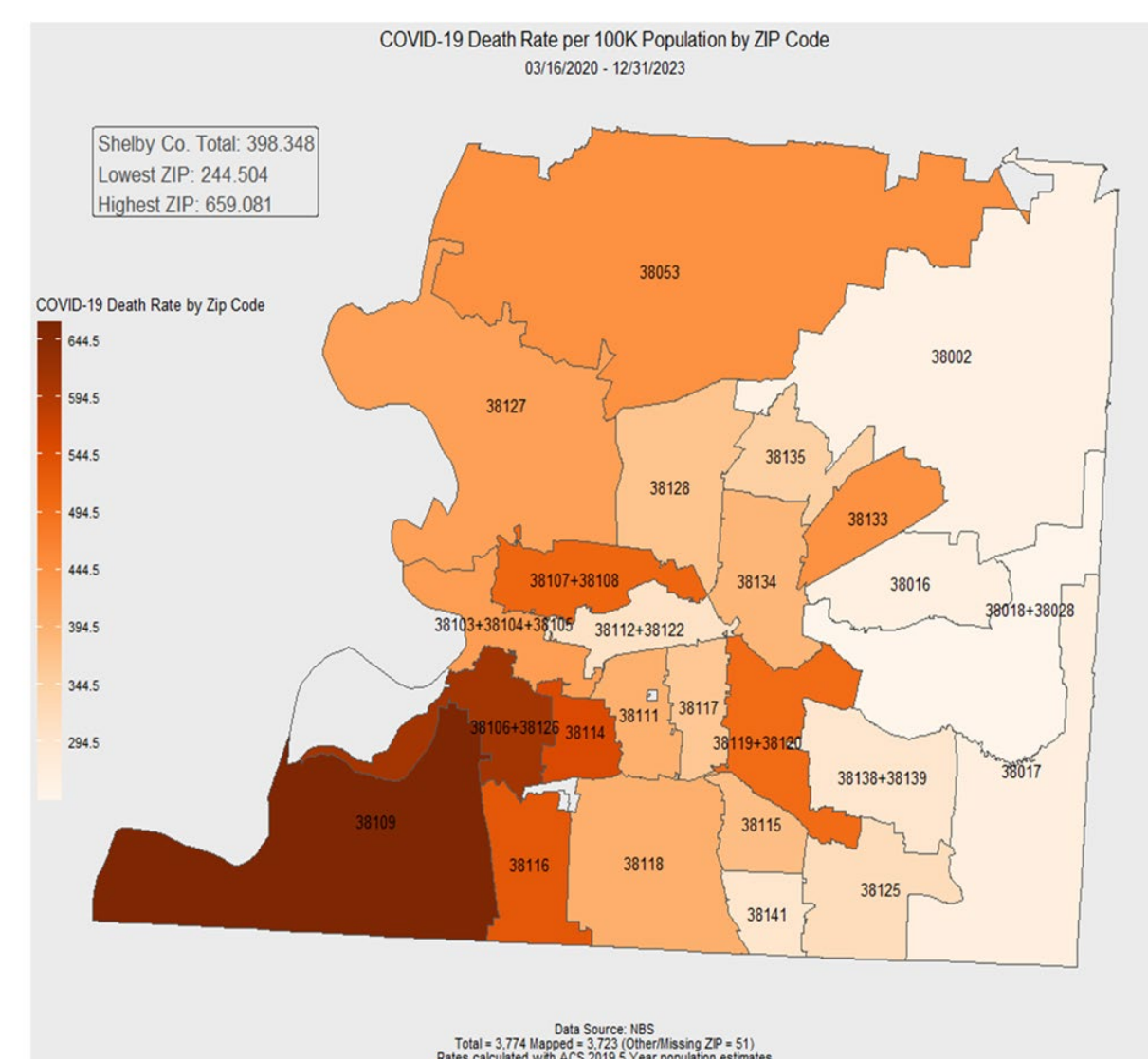
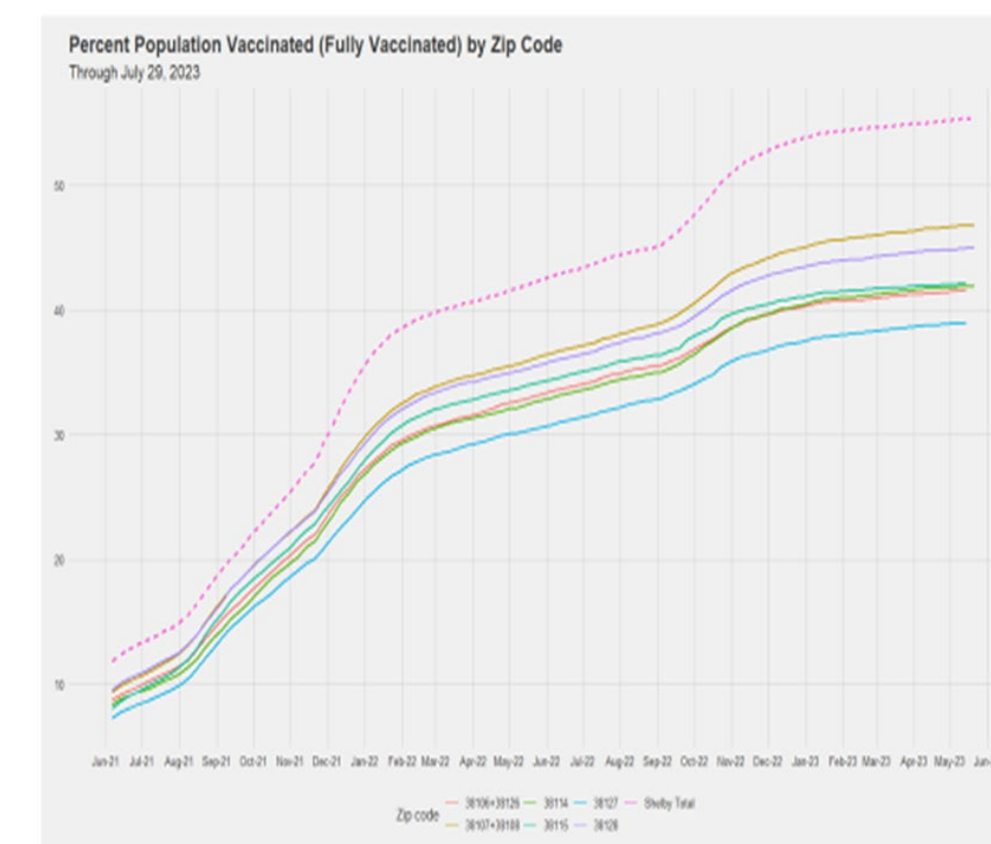
Trusted Sources for COVID-19 Info



Pre-Project Vaccination Rates



Post-Project Vaccination Rates



Methods

This data-informed observational analysis is based on the National Electronic Disease Surveillance System Base System (NBS) data for all reported deaths of COVID-19 patients during the period of March 30, 2020, to December 31, 2023. Demographic information, clinical symptoms, comorbidities, hospitalization, and other relevant factors were analyzed.

Discussion

Summer 2021 The Shelby County Health Department (SCHD) applied for and secured CDC grant funding to reduce COVID-19 health disparities among underserved, high-risk populations

Strategy Utilize community partnerships to mitigate the spread and negative impact of COVID-19 by increasing vaccination, testing, and contact tracing

Areas of focus also have higher densities of Black and Hispanic residents and are among the highest poverty rate ZIP codes in Memphis years.

Results

Out of the total 3,760 deaths, 70.0% of patients were reported to be hospitalized, and 30% were admitted to the ICU. Of those deaths, 59% were Black compared to 35% White, and most deaths were 65 years and older (67%). Common clinical profiles were difficulty breathing (42%), cough (21.0%), and fatigue (20.0%), and fever (18.0%). Reported comorbidities among the hospitalized were hypertension (44.0%), diabetes (26.0%), and chronic renal disease (13.0%).