

Title: Study of the factors associated with the acceptability of the coronavirus vaccine in adults in Kinshasa in the commune of Lemba in 2022.

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Introduction

The coronavirus disease 2019 (COVID-19) is a global pandemic caused by the novel coronavirus SARS-CoV-2. The main challenge in COVID-19 vaccination is vaccine acceptance. In this study, we aimed to investigate the factors associated with vaccine acceptance among adults in Kinshasa, specifically in the Lemba commune, in 2022.

Methods

A descriptive and analytical cross-sectional study was conducted in Kinshasa, DRC, from December 1st to December 31st, 2022. The study included adult men and women who had resided in Lemba commune for at least 6 months. A two-stage random sampling technique was used, and data were collected through individual interviews at participants' homes after obtaining their consent. Data were entered into Epi Info 7, and descriptive and multivariate analysis was performed using logistic regression with R software, version 4.0.5.

Results

A total of 422 households were surveyed, with participants' ages ranging from 19 to 70 years and a mean age of 35.38 years \pm 9.84 years. The majority of participants were aged 25 to 59 years (93.8%), and there were more women than men (81.5%). Most participants were single (68%), and 72% had a university level of education. Approximately 43.4% of respondents had accepted the COVID-19 vaccine. Factors associated with vaccine acceptance included a history of chronic illness (ORa=0.69 [0.27-1.71]), exposure to misinformation or vaccine hesitancy from social media (0.22 [0.11-0.42]) and media (ORa=0.16 [0.05-0.21]), fear of vaccine side effects (ORa=0.74 [0.40-1.38]), fear that the vaccine would endanger life (ORa=0.63 [0.35-1.12]), vaccine hesitancy (ORa=0.04 [0.01-0.08]), and ease of getting vaccinated (ORa=0.83 [0.36-0.91]).

Conclusion

Several factors associated with COVID-19 vaccine acceptance were identified in our study population. It is important to address these factors to improve vaccine acceptance.

Keywords: Acceptance, vaccine, COVID-19, adult, DRC.