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COVID-19 Vaccination Coverage and Breakthrough Infections in People Aged 12 Years and Above

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ABSTRACT

Introduction: WHO declared COVID-19 as public health emergency of international concern in January 2020, and later declared as pandemic on 11 March 2020. One of the major risk groups for covid-19 are people in overcrowded urban slums and migrants.

Objectives: To determine the COVID 19 vaccination coverage among people aged 12 years and above in the field practice area of UHTC, NMC, Nellore; To estimate the prevalence of breakthrough infections after COVID 19 vaccination in the field practice area of UHTC, NMC, Nellore.

Methodology: A community based cross sectional study was conducted in Urban slums belonging to Urban Field Practice area of Narayana Medical College, Nellore, Andhra Pradesh for a period of three months. Data was collected with Predesigned, pretested, semi structured questionnaire, and entered in Microsoft excel and data was analyzed by using 'SPSS version 25'.

Results: In the present study 92.4% (183 out of 198) of the study subjects had taken COVID vaccine of which 142(71.7%) had taken two doses, 25(12.6%) and 16(8.1%) had taken one dose and booster dose respectively.

Conclusion: Prevalence of breakthrough infection rate is relatively high in urban slums and migrants because of overcrowding and lack of sanitation practice in urban slums.

Key word: COVID-19 vaccination, Break through infections, urban slums.

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