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ICMR Third National Sero-survey for SARS-CoV-2 infection

Third National Serosurvey

- Dec 17, 2020 – Jan 8, 2021
- Prevalence of SARS-CoV-2 infection in **general population (≥ 10 yr): 28, 589**
- Prevalence of SARS-CoV-2 infection in **healthcare workers (HCW): 7, 171**
- Survey conducted in the same 700 villages/wards; 70 districts from 21 States selected during the 1st and 2nd rounds
- 100 HCWs per district, working in Taluk hospitals/CHCs/PHCs (all HCWs from selected health facilities)
- IgG antibody against S1 Receptor Binding Domain was detected

Sero-prevalence in General Population

- Prevalence among adults (age ≥ 18 years): 21.4%
 - ✓ Urban slum: 31.7%
 - ✓ Urban non-slum: 26.2%
 - ✓ Rural: 19.1%
- Female (22.7%), male (20.3%)
- Children aged 10-17 years: 25.3%

Sero-prevalence in General Population

Characteristics	Sero- Prevalence % (95% CI)
Gender	
Male	20.3 (19.2 – 21.5)
Female	22.7 (21.5 – 23.9)
Age (Yr)	
10 – 17	25.3 (23.1 – 27.5)
18 – 44	19.9 (18.8 – 21.0)
45 – 60	23.4 (22.0 – 24.9)
>60	23.4 (21.6 – 25.4)
Geography	
Rural	19.1 (18.0 – 20.3)
Urban non-slum	26.2 (23.6 – 28.8)
Urban slum	31.7 (28.1 – 35.5)

Sero-prevalence in Healthcare Workers (HCW)

- Blood samples collected from 7, 171 individuals
- Overall Seroprevalence: 25.7% (95% CI: 23.6-27.8)

Type of HCW	Seroprevalence %
Doctors/nurses	26.6 (23.6-29.8)
Paramedical staff	25.4 (22.9-28.0)
Field staff	25.3 (22.4-28.4)
Admin staff	24.9 (20.7-29.6)

Take Away

- Overall seroprevalence is 21.5% of the population
- Urban slum (31.7%), urban non-slum (26.2%) & rural (19.1%)
- A large proportion still remains vulnerable
- Prevalence amongst HCW is 25.7%
- Prevention is the key
- Vaccines necessary
- No complacency: Masks / Distance / Hand hygiene