***Epidemiology and Infection***

**Measles and rubella seroprevalence in adults using residual blood samples from health facilities and household serosurveys in Palghar District, Maharashtra, India, 2018-19**

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**Supplementary Tables and Figures**

Supplementary Table S1. Age of adult patients with residual specimens

|  |  |
| --- | --- |
|   | Median age in years (IQR) |
| Overall (N=650) | 27 (22, 35) |
| Female (N=476) | 26 (22, 32) |
| Male (N=174) | 30 (23, 40) |
| ANC attendees (N=167) | 24 (22, 27) |
| Male and non-ANC female patients (N=483) | 29 (23, 37.5) |

IQR, interquartile range

Supplemental Table S2. Seroprevalence of IgG antibodies against measles and rubella among adults 15 to 50 years with residual specimens

|  |  |  |  |
| --- | --- | --- | --- |
| Antigen | Overall (N=650) | By sex | By patient type |
| Female (N=476) | Male (N=174) | aORa (95% CI) | ANC attendees (N=167) | Male and non-ANC female patients (N=483) | aORb (95% CI) |
| % (95% CI) | % (95% CI) | % (95% CI) | % (95% CI) | % (95% CI) |
| Measles | 98.5 (97.5, 99.4) | 98.3 (97.2, 99.5) | 98.9 (97.3, 100) | 1.31 (0.32, 8.77) | 97.0 (94.4, 99.6) | 99.0 (98.0, 99.9) | 0.37 (0.07, 1.55) |
| Rubella | 91.5 (89.4, 93.8) | 92.6 (90.0, 95.0) | 88.5 (83.8, 93.2) | **0.54 (0.30, 0.99)** | 91.6 (87.4, 95.8) | 91.5 (89.0, 94.0) | 0.95 (0.47, 1.97) |

1. Logistic regression adjusted for age in years. Bold indicates p-value < 0.05.
2. Logistic regression adjusted for age in years and sex.

Supplementary Figure S1. Age distribution of adults with specimens collected, by survey type



Median (IQR) age of adult females enrolled in community-based survey (N=314): 30.8 (23.3, 37.9).

Supplementary Table S3. Moran's I statistic results for measles and rubella seroprevalence estimated from post-SIA serosurvey conducted in Palghar District, Maharashtra

|  |  |  |
| --- | --- | --- |
|  | **Measles** | **Rubella** |
| Moran's Index, (SD) | 0.1 (1) | -0.09 (-0.48) |
| Expected Index | -0.03 | -0.03 |
| Variance | 0.017 | 0.013 |
| *p-value (Monte Carlo simulation, 1000 permutations)* | 0.139 | 0.718 |