## SUPPLEMENTARY MATERIALS FOR ARTICLE ID 14440

(Russian Journal of Infection and Immunity)
Table S1. Shares of seropositive and seronegative individuals by age and seromonitoring stage

| Age group, years | Value, \% (95\% confidence interval) |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Nc-RBD- | Nc+RBD- | RBD+Nc- | Nc+RBD+ |
| Stage 1 |  |  |  |  |
| 1-17 | $\begin{gathered} 34.6 \\ (30.6-38.7) \end{gathered}$ | $\begin{gathered} 5.3 \\ (3.6-7.5) \end{gathered}$ | $\begin{gathered} 22.1 \\ (18.7-25.8) \end{gathered}$ | $\begin{gathered} 38.0 \\ (33.9-42.2) \end{gathered}$ |
| 18-29 | $\begin{gathered} 38.7 \\ (33.9-43.6) \end{gathered}$ | $\begin{gathered} 3.7 \\ (2.1-6.0) \end{gathered}$ | $\begin{gathered} 29.8 \\ (25.4-34.5) \end{gathered}$ | $\begin{gathered} 27.8 \\ (25.3-32.5) \end{gathered}$ |
| 30-39 | $\begin{gathered} 36.6 \\ (32.9-40.4) \\ \hline \end{gathered}$ | $\begin{gathered} 4.4 \\ (2.9-6.2) \\ \hline \end{gathered}$ | $\begin{gathered} 27.7 \\ (24.3-31.3) \\ \hline \end{gathered}$ | $\begin{gathered} 31.3 \\ (27.8-35.0) \\ \hline \end{gathered}$ |
| 40-49 | $\begin{gathered} 33.2 \\ (30.0-36.5) \end{gathered}$ | $\begin{gathered} 4.6 \\ (3.3-6.3) \end{gathered}$ | $\begin{gathered} 25.5 \\ (22.5-28.6) \end{gathered}$ | $\begin{gathered} 36.7 \\ (33.4-40.1) \end{gathered}$ |
| 50-59 | $\begin{gathered} 26.9 \\ (23.8-30.1) \end{gathered}$ | $\begin{gathered} 7.2 \\ (5.5-9.2) \end{gathered}$ | $\begin{gathered} 19.4 \\ (16.7-22.4) \end{gathered}$ | $\begin{gathered} 46.5 \\ (43.0-50.1) \end{gathered}$ |
| 60-69 | $\begin{gathered} 32.0 \\ (28.5-35.6) \end{gathered}$ | $\begin{gathered} 6.2 \\ (4.6-8.3) \end{gathered}$ | $\begin{gathered} 15.2 \\ (12.6-18.1) \end{gathered}$ | $\begin{gathered} 46.6 \\ (42.9-50.4) \end{gathered}$ |
| $70^{+}$ | $\begin{gathered} 27.5 \\ (24.3-30.9) \end{gathered}$ | $\begin{gathered} 5.2 \\ (3.7-7.1) \end{gathered}$ | $\begin{gathered} 22.6 \\ (19.6-25.8) \end{gathered}$ | $\begin{gathered} 44.7 \\ (41.1-48.4) \end{gathered}$ |
| OVERALL | $\begin{gathered} 32.2 \\ (30.8-33.5) \end{gathered}$ | $\begin{gathered} 5.4 \\ (5.1-6.1) \end{gathered}$ | $\begin{gathered} 22.7 \\ (21.7-24.0) \end{gathered}$ | $\begin{gathered} 39.7 \\ (38.4-41.2) \end{gathered}$ |
| Stage 2 |  |  |  |  |
| 1-17 | $\begin{gathered} 30.7 \\ (26.9-34.8) \\ \hline \end{gathered}$ | $\begin{gathered} 2.9 \\ (1.7-4.7) \end{gathered}$ | $\begin{gathered} \hline 42.1 \\ (37.9-46.3) \\ \hline \end{gathered}$ | $\begin{gathered} 24.3 \\ (20.8-28.1) \\ \hline \end{gathered}$ |
| 18-29 | $\begin{gathered} 29.8 \\ (25.4-34.5) \end{gathered}$ | $\begin{gathered} 2.2 \\ (1.0-4.2) \end{gathered}$ | $\begin{gathered} 47.3 \\ (42.4-52.3) \end{gathered}$ | $\begin{gathered} 20.7 \\ (16.8-25.0) \end{gathered}$ |
| 30-39 | $\begin{gathered} 28.0 \\ (24.6-31.6) \end{gathered}$ | $\begin{gathered} 4.7 \\ (3.2-6.6) \\ \hline \end{gathered}$ | $\begin{gathered} 42.6 \\ (38.8-46.5) \end{gathered}$ | $\begin{gathered} 24.7 \\ (21.5-28.2) \end{gathered}$ |
| 40-49 | $\begin{gathered} 24.3 \\ (21.4-27.4) \end{gathered}$ | $\begin{gathered} 4.9 \\ (3.5-6.6) \end{gathered}$ | $\begin{gathered} 42.2 \\ (38.8-45.7) \end{gathered}$ | $\begin{gathered} 28.6 \\ (25.6-31.9) \end{gathered}$ |
| 50-59 | $\begin{gathered} 19.4 \\ (16.7-22.4) \\ \hline \end{gathered}$ | $\begin{gathered} 4.0 \\ (2.7-5.5) \\ \hline \end{gathered}$ | $\begin{gathered} 36.4 \\ (33.1-40.0) \\ \hline \end{gathered}$ | $\begin{gathered} 40.2 \\ (36.8-43.7) \\ \hline \end{gathered}$ |
| 60-69 | $\begin{gathered} 19.6 \\ (16.7-22.7) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 3.4 \\ (2.2-5.0) \end{gathered}$ | $\begin{gathered} 35.9 \\ (32.4-39.6) \\ \hline \end{gathered}$ | $\begin{gathered} 41.1 \\ (37.4-44.8) \\ \hline \end{gathered}$ |
| $70^{+}$ | $\begin{gathered} 22.0 \\ (19.1-25.2) \end{gathered}$ | $\begin{gathered} 2.9 \\ (1.8-4.4) \end{gathered}$ | $\begin{gathered} 34.0 \\ (30.5-37.6) \end{gathered}$ | $\begin{gathered} 41.1 \\ (37.5-44.8) \end{gathered}$ |
| OVERALL | $\begin{gathered} 24.2 \\ (23.0-25.4) \end{gathered}$ | $\begin{gathered} 3.7 \\ (3.2-4.2) \end{gathered}$ | $\begin{gathered} 39.5 \\ (38.1-40.9) \end{gathered}$ | $\begin{gathered} 32.7 \\ (31.3-34.0) \end{gathered}$ |
| Stage 3 |  |  |  |  |
| 1-17 | $\begin{gathered} 16.1 \\ (13.1-19.4) \end{gathered}$ | $\begin{gathered} 2.0 \\ (1.1-3.6) \end{gathered}$ | $\begin{gathered} \hline 37.1 \\ (33.1-41.3) \end{gathered}$ | $\begin{gathered} 44.8 \\ (40.6-49.1) \end{gathered}$ |

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| Age group, years | Value, \% (95\% confidence interval) |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Nc-RBD- | Nc+RBD- | RBD+Nc- | Nc+RBD+ |
| 18-29 | $\begin{gathered} 15.3 \\ (11.9-19.1) \end{gathered}$ | $\begin{gathered} 1.7 \\ (0.7-3.5) \end{gathered}$ | $\begin{gathered} 44.3 \\ (39.4-49.3) \end{gathered}$ | $\begin{gathered} 38.7 \\ (33.9-43.6) \end{gathered}$ |
| 30-39 | $\begin{gathered} 13.7 \\ (11.2-16.6) \end{gathered}$ | $\begin{gathered} 3.5 \\ (2.2-5.2) \end{gathered}$ | $\begin{gathered} 39.6 \\ (35.9-43.4) \end{gathered}$ | $\begin{gathered} 43.2 \\ (39.4-47.1) \end{gathered}$ |
| 40-49 | $\begin{gathered} 11.6 \\ (9.5-14.0) \\ \hline \end{gathered}$ | $\begin{gathered} 3.3 \\ (2.2-4.8) \\ \hline \end{gathered}$ | $\begin{gathered} 35.8 \\ (32.6-39.2) \\ \hline \end{gathered}$ | $\begin{gathered} 49.3 \\ (45.8-52.8) \\ \hline \end{gathered}$ |
| 50-59 | $\begin{gathered} 10.3 \\ (8.3-12.7) \end{gathered}$ | $\begin{gathered} 1.8 \\ (1.0-2.9) \end{gathered}$ | $\begin{gathered} 33.0 \\ (29.8-36.4) \end{gathered}$ | $\begin{gathered} 54.9 \\ (51.3-59.4) \end{gathered}$ |
| 60-69 | $\begin{gathered} 9.2 \\ (7.2-11.6) \end{gathered}$ | $\begin{gathered} 2.3 \\ (1.3-3.7) \end{gathered}$ | $\begin{gathered} 33.5 \\ (30.0-37.1) \end{gathered}$ | $\begin{gathered} 55.0 \\ (51.2-58.7) \end{gathered}$ |
| $70^{+}$ | $\begin{gathered} 11.3 \\ (9.1-13.8) \end{gathered}$ | $\begin{gathered} 2.1 \\ (1.1-3.4) \end{gathered}$ | $\begin{gathered} 33.0 \\ (29.6-36.6) \end{gathered}$ | $\begin{gathered} 53.6 \\ (49.9-57.3) \\ \hline \end{gathered}$ |
| OVERALL | $\begin{gathered} 12.1 \\ (11.2-13.1) \end{gathered}$ | $\begin{gathered} 2.4 \\ (2.0-2.9) \end{gathered}$ | $\begin{gathered} 36.0 \\ (34.6-37.4) \end{gathered}$ | $\begin{gathered} 49.5 \\ (48.0-50.9) \\ \hline \end{gathered}$ |
| Stage 4 |  |  |  |  |
| 1-17 | $\begin{gathered} 1.8 \\ (0.9-3.3) \end{gathered}$ | $\begin{gathered} 2.9 \\ (1.7-4.7) \end{gathered}$ | $\begin{gathered} 13.0 \\ (10.3-16.1) \end{gathered}$ | $\begin{gathered} 82.3 \\ (78.8-85.4) \end{gathered}$ |
| 18-29 | $\begin{gathered} 2.0 \\ (0.8-3.8) \\ \hline \end{gathered}$ | $\begin{gathered} 2.7 \\ (1.4-4.8) \end{gathered}$ | $\begin{gathered} 15.7 \\ (12.4-19.7) \end{gathered}$ | $\begin{gathered} 79.6 \\ (75.3-83.4) \\ \hline \end{gathered}$ |
| 30-39 | $\begin{gathered} 2.9 \\ (1.7-4.4) \end{gathered}$ | $\begin{gathered} 2.4 \\ (1.4-3.9) \end{gathered}$ | $\begin{gathered} 15.7 \\ (13.0-18.6) \end{gathered}$ | $\begin{gathered} 79.0 \\ (75.8-82.1) \\ \hline \end{gathered}$ |
| 40-49 | $\begin{gathered} 1.1 \\ (0.5-2.1) \end{gathered}$ | $\begin{gathered} 1.8 \\ (0.9-2.8) \end{gathered}$ | $\begin{gathered} 15.4 \\ (13.0-18.0) \end{gathered}$ | $\begin{gathered} 81.7 \\ (78.9-84.3) \end{gathered}$ |
| 50-59 | $\begin{gathered} 2.0 \\ (1.2-3.3) \\ \hline \end{gathered}$ | $\begin{gathered} 1.3 \\ (0.6-2.3) \\ \hline \end{gathered}$ | $\begin{gathered} 15.0 \\ (12.6-17.7) \\ \hline \end{gathered}$ | $\begin{gathered} 81.7 \\ (78.8-84.4) \\ \hline \end{gathered}$ |
| 60-69 | $\begin{gathered} 2.6 \\ (1.5-4.0) \\ \hline \end{gathered}$ | $\begin{gathered} 2.8 \\ (1.7-4.4) \\ \hline \end{gathered}$ | $\begin{gathered} 18.5 \\ (15.7-21.5) \end{gathered}$ | $\begin{gathered} 76.1 \\ (72.8-79.2) \\ \hline \end{gathered}$ |
| $70^{+}$ | $\begin{gathered} 2.5 \\ (1.5-3.9) \end{gathered}$ | $\begin{gathered} 1.5 \\ (0.8-2.7) \end{gathered}$ | $\begin{gathered} 16.5 \\ (13.4-19.4) \end{gathered}$ | $\begin{gathered} 79.5 \\ (76.4-82.4) \end{gathered}$ |
| OVERALL | $\begin{gathered} 2.1 \\ (1.7-2.6) \end{gathered}$ | $\begin{gathered} 2.1 \\ (1.7-2.6) \end{gathered}$ | $\begin{gathered} 15.8 \\ (14.7-16.8) \end{gathered}$ | $\begin{gathered} 80.0 \\ (78.8-91.2) \end{gathered}$ |

Note for Tables
(S1, S2, S3): Nc RBD ${ }^{-}$- SARS-CoV-2 Ab seronegative individuals; $\mathrm{Nc}^{+} \mathrm{RBD}^{-}$- those seropositive for Nc Abs only; $\mathrm{RBD}^{+} \mathrm{Nc}^{-}$— those seropositive for RBD Abs only; $\mathrm{Nc}^{+} \mathrm{RBD}^{+}$those seropositive for both Abs.

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 (Russian Journal of Infection and Immunity)Table S2. Shares of seropositive and seronegative individuals by region and seromonitoring stage

| Administrative region or city | Value, \%(95\% confidence interval) |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Nc-RBD- | Nc+RBD- | RBD+Nc- | NC+RBD+ |
| Stage 1 |  |  |  |  |
| Brest | $\begin{gathered} 29.6 \\ (26.1-33.4) \end{gathered}$ | $\begin{gathered} 6.0 \\ (4.2-6.1) \\ \hline \end{gathered}$ | $\begin{gathered} 22.7 \\ (19.5-26.2) \end{gathered}$ | $\begin{gathered} 41.7 \\ (37.9-45.6) \\ \hline \end{gathered}$ |
| Vitebsk | $\begin{gathered} 35.7 \\ (34.5-40.0) \end{gathered}$ | $\begin{gathered} 5.1 \\ (3.3-7.3) \end{gathered}$ | $\begin{gathered} 23.2 \\ (19.6-27.1) \end{gathered}$ | $\begin{gathered} 36.0 \\ (31.9-40.4) \end{gathered}$ |
| Grodno | $\begin{gathered} 30.3 \\ (26.6-34.3) \end{gathered}$ | $\begin{gathered} 5.7 \\ (4.0-7.0) \end{gathered}$ | $\begin{gathered} 19.9 \\ (16.7-23.4) \end{gathered}$ | $\begin{gathered} 44.1 \\ (40.0-48.3) \end{gathered}$ |
| Gomel | $\begin{gathered} 32.3 \\ (27.8-37.0) \end{gathered}$ | $\begin{gathered} 7.2 \\ (5.0-10.1) \end{gathered}$ | $\begin{gathered} 22.7 \\ (18.8-27.1) \end{gathered}$ | $\begin{gathered} 37.8 \\ (33.1-42.6) \end{gathered}$ |
| Mogilev | $\begin{gathered} 31.4 \\ (28.6-34.4) \end{gathered}$ | $\begin{gathered} 5.2 \\ (3.9-6.7) \end{gathered}$ | $\begin{gathered} 25.2 \\ (22.6-28.0) \end{gathered}$ | $\begin{gathered} 38.2 \\ (35.2-41.2) \end{gathered}$ |
| Minsk | $\begin{gathered} 33.6 \\ (29.7-37.6) \\ \hline \end{gathered}$ | $\begin{gathered} 4.3 \\ (2.8-6.3) \\ \hline \end{gathered}$ | $\begin{gathered} 25.1 \\ (21.6-28.8) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 37.0 \\ (33.1-41.1) \\ \hline \end{gathered}$ |
| Minsk city | $\begin{gathered} 32.9 \\ (29.9-36.1) \end{gathered}$ | $\begin{gathered} 4.9 \\ (3.6-6.5) \\ \hline \end{gathered}$ | $\begin{gathered} 20.0 \\ (17.5-22.8) \\ \hline \end{gathered}$ | $\begin{gathered} 42.2 \\ (38.9-45.4) \\ \hline \end{gathered}$ |
| OVERALL | $\begin{gathered} 32.2 \\ (30.8-33.5) \end{gathered}$ | $\begin{gathered} 5.4 \\ (5.1-6.1) \\ \hline \end{gathered}$ | $\begin{gathered} 22.7 \\ (21.6-24.0) \end{gathered}$ | $\begin{gathered} 39.7 \\ (38.3-42.2) \\ \hline \end{gathered}$ |
| Stage 2 |  |  |  |  |
| Brest | $\begin{gathered} 25.8 \\ (22.4-29.4) \end{gathered}$ | $\begin{gathered} 2.6 \\ (1.5-4.2) \end{gathered}$ | $\begin{gathered} 39.4 \\ (35.6-43.4) \end{gathered}$ | $\begin{gathered} 32.2 \\ (28.5-36.0) \end{gathered}$ |
| Vitebsk | $\begin{gathered} 25.7 \\ (22.0-29.7) \\ \hline \end{gathered}$ | $\begin{gathered} 2.7 \\ (1.5-4.5) \end{gathered}$ | $\begin{gathered} 42.9 \\ (38.6-47.3) \\ \hline \end{gathered}$ | $\begin{gathered} 28.7 \\ (24.5-32.8) \\ \hline \end{gathered}$ |
| Grodno | $\begin{gathered} 25.4 \\ (21.9-29.2) \\ \hline \end{gathered}$ | $\begin{gathered} 4.4 \\ (2.8-6.4) \\ \hline \end{gathered}$ | $\begin{gathered} 38.8 \\ (34.8-43.0) \\ \hline \end{gathered}$ | $\begin{gathered} 31.4 \\ (27.6-35.3) \\ \hline \end{gathered}$ |
| Gomel | $\begin{gathered} 27.8 \\ (23.5-32.3) \end{gathered}$ | $\begin{gathered} 7.6 \\ (5.3-10.6) \end{gathered}$ | $\begin{gathered} 34.2 \\ (29.7-39.0) \end{gathered}$ | $\begin{gathered} 30.4 \\ (26.0-35.0) \end{gathered}$ |
| Mogilev | $\begin{gathered} 22.3 \\ (19.8-25.0) \end{gathered}$ | $\begin{gathered} 3.4 \\ (2.4-4.6) \\ \hline \end{gathered}$ | $\begin{gathered} 37.5 \\ (34.5-40.5) \end{gathered}$ | $\begin{gathered} 36.8 \\ (33.9-39.8) \end{gathered}$ |
| Minsk | $\begin{gathered} 24.1 \\ (20.6-27.8) \end{gathered}$ | $\begin{gathered} 4.0 \\ (2.5-5.9) \\ \hline \end{gathered}$ | $\begin{gathered} 44.6 \\ (40.5-48.8) \end{gathered}$ | $\begin{gathered} 27.3 \\ (23.7-31.2) \\ \hline \end{gathered}$ |
| Minsk city | $\begin{gathered} 21.9 \\ (19.2-24.7) \end{gathered}$ | $\begin{gathered} 2.9 \\ (2.0-4.3) \\ \hline \end{gathered}$ | $\begin{gathered} 39.4 \\ (36.2-42.6) \end{gathered}$ | $\begin{gathered} 35.8 \\ (32.7-39.0) \end{gathered}$ |
| OVERALL | $\begin{gathered} 24.1 \\ (23.0-25.4) \end{gathered}$ | $\begin{gathered} 3.7 \\ (3.2-4.3) \end{gathered}$ | $\begin{gathered} 39.5 \\ (38.1-40.9) \end{gathered}$ | $\begin{gathered} 32.7 \\ (31.3-34.0) \end{gathered}$ |

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| Administrative region or city | $\begin{gathered} \text { Value, \% } \\ \text { (95\% confidence interval) } \end{gathered}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Nc-RBD- | Nc+RBD- | RBD+Nc- | NC+RBD+ |
| Stage 3 |  |  |  |  |
| Brest | $\begin{gathered} 13.2 \\ (10.4-19.1) \end{gathered}$ | $\begin{gathered} 2.6 \\ (1.5-4.2) \end{gathered}$ | $\begin{gathered} 34.4 \\ (30.8-38.3) \end{gathered}$ | $\begin{gathered} 49.8 \\ (45.8-53.8) \end{gathered}$ |
| Vitebsk | $\begin{gathered} 11.7 \\ (9.0-14.8) \end{gathered}$ | $\begin{gathered} 2.3 \\ (1.2-4.1) \end{gathered}$ | $\begin{gathered} 38.6 \\ (34.4-43.0) \end{gathered}$ | $\begin{gathered} 47.4 \\ (43.0-51.8) \end{gathered}$ |
| Grodno | $\begin{gathered} 14.5 \\ (11.7-17.6) \end{gathered}$ | $\begin{gathered} 3.7 \\ (2.3-5.5) \end{gathered}$ | $\begin{gathered} 36.2 \\ (32.3-40.3) \end{gathered}$ | $\begin{gathered} 45.6 \\ (41.5-49.8) \end{gathered}$ |
| Gomel | $\begin{gathered} 9.8 \\ (7.1-13.1) \\ \hline \end{gathered}$ | $\begin{gathered} 2.9 \\ (1.5-5.0) \end{gathered}$ | $\begin{gathered} 34.0 \\ (29.4-38.7) \end{gathered}$ | $\begin{gathered} 53.3 \\ (48.4-58.2) \end{gathered}$ |
| Mogilev | $\begin{gathered} 11.7 \\ (9.8-13.8) \end{gathered}$ | $\begin{gathered} 2.2 \\ (1.4-3.3) \end{gathered}$ | $\begin{gathered} 36.0 \\ (33.0-40.0) \end{gathered}$ | $\begin{gathered} 50.1 \\ (47.1-53.2) \end{gathered}$ |
| Minsk | $\begin{gathered} 13.1 \\ (10.5-16.2) \\ \hline \end{gathered}$ | $\begin{gathered} 1.2 \\ (0.5-2.5) \\ \hline \end{gathered}$ | $\begin{gathered} 38.8 \\ (34.5-42.9) \\ \hline \end{gathered}$ | $\begin{gathered} 46.9 \\ (42.8-51.1) \\ \hline \end{gathered}$ |
| Minsk | $\begin{gathered} 11.0 \\ (9.1-13.3) \\ \hline \end{gathered}$ | $\begin{gathered} 2.4 \\ (1.5-3.6) \end{gathered}$ | $\begin{gathered} 34.7 \\ (31.6-37.9) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 51.9 \\ (48.6-55.1) \end{gathered}$ |
| OVERALL | $\begin{gathered} 12.1 \\ (11.2-13.1) \end{gathered}$ | $\begin{gathered} 2.4 \\ (2.0-2.9) \end{gathered}$ | $\begin{gathered} 36.0 \\ (34.6-37.4) \end{gathered}$ | $\begin{gathered} 49.5 \\ (48.0-50.9) \end{gathered}$ |
| Stage 4 |  |  |  |  |
| Brest | $\begin{gathered} 2.7 \\ (1.5-4.2) \end{gathered}$ | $\begin{gathered} 2.7 \\ (1.6-4.4) \end{gathered}$ | $\begin{gathered} 15.4 \\ (12.7-18.6) \end{gathered}$ | $\begin{gathered} 79.2 \\ (75.8-82.4) \end{gathered}$ |
| Vitebsk | $\begin{gathered} 2.3 \\ (1.2-4.1) \end{gathered}$ | $\begin{gathered} 1.9 \\ (0.9-3.6) \\ \hline \end{gathered}$ | $\begin{gathered} 17.0 \\ (13.8-20.5) \end{gathered}$ | $\begin{gathered} 78.8 \\ (75.0-82.2) \end{gathered}$ |
| Grodno | $\begin{gathered} 1.9 \\ (1.0-3.4) \\ \hline \end{gathered}$ | $\begin{gathered} 3.0 \\ (1.7-4.7) \end{gathered}$ | $\begin{gathered} 13.2 \\ (10.6-16.2) \end{gathered}$ | $\begin{gathered} 81.9 \\ (78.5-85.0) \end{gathered}$ |
| Gomel | $\begin{gathered} 1.9 \\ (0.8-3.7) \end{gathered}$ | $\begin{gathered} 1.0 \\ (0.2-2.4) \\ \hline \end{gathered}$ | $\begin{gathered} 19.1 \\ (15.5-23.2) \end{gathered}$ | $\begin{gathered} 78.0 \\ (73.7-81.9) \end{gathered}$ |
| Mogilev | $\begin{gathered} 1.9 \\ (1.2-3.0) \end{gathered}$ | $\begin{gathered} 2.4 \\ (1.6-3.5) \end{gathered}$ | $\begin{gathered} 17.7 \\ (15.5-20.2) \end{gathered}$ | $\begin{gathered} 78.0 \\ (75.3-80.4) \end{gathered}$ |
| Minsk | $\begin{gathered} 1.7 \\ (0.8-3.2) \\ \hline \end{gathered}$ | $\begin{gathered} 2.1 \\ (1.1-3.6) \end{gathered}$ | $\begin{gathered} 15.6 \\ (12.7-18.8) \end{gathered}$ | $\begin{gathered} 80.6 \\ (77.2-83.8) \end{gathered}$ |
| Minsk | $\begin{gathered} 2.4 \\ (1.5-3.6) \end{gathered}$ | $\begin{gathered} 1.5 \\ (0.8-2.4) \end{gathered}$ | $\begin{gathered} 13.1 \\ (11.0-15.5) \end{gathered}$ | $\begin{gathered} 83.0 \\ (80.4-85.4) \end{gathered}$ |
| OVERALL | $\begin{gathered} 2.1 \\ (1.7-2.6) \end{gathered}$ | $\begin{gathered} 2.1 \\ (1.7-2.6) \end{gathered}$ | $\begin{gathered} 15.8 \\ (14.7-16.8) \end{gathered}$ | $\begin{gathered} 80.0 \\ (78.9-81.2) \end{gathered}$ |

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Table S3. Shares of seropositive and seronegative individuals by professional category

| Occupational Group | Value, \%(95\% confidence interval) |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Nc-RBD- | Nc+RBD- | RBD+Nc- | NC+RBD+ |
| Stage 1 |  |  |  |  |
| Health workers | $\begin{gathered} 22.5 \\ (19.4-25.7) \end{gathered}$ | $\begin{gathered} 4.8 \\ (3.4-6.7) \end{gathered}$ | $\begin{gathered} 33.9 \\ (30.4-37.6) \end{gathered}$ | $\begin{gathered} 38.8 \\ (35.1-42.5) \end{gathered}$ |
| Scientists | $\begin{gathered} 25.7 \\ (12.5-43.3) \end{gathered}$ | $\begin{gathered} 2.9 \\ (0.07-14.9) \end{gathered}$ | $\begin{gathered} 31.4 \\ (16.8-49.3) \end{gathered}$ | $\begin{gathered} 40.0 \\ (23.9-57.9) \end{gathered}$ |
| Business | $\begin{gathered} 42.3 \\ (35.2-49.7) \end{gathered}$ | $\begin{gathered} 6.4 \\ (3.3-10.8) \end{gathered}$ | $\begin{gathered} 18.0 \\ (12.8-24.2) \end{gathered}$ | $\begin{gathered} 33.3 \\ (26.7-40.5) \end{gathered}$ |
| Education | $\begin{gathered} 29.1 \\ (24.8-33.6) \\ \hline \end{gathered}$ | $\begin{gathered} 5.8 \\ (3.8-8.5) \\ \hline \end{gathered}$ | $\begin{gathered} 25.1 \\ (21.1-29.5) \\ \hline \end{gathered}$ | $\begin{gathered} 40.0 \\ (35.3-44.8) \\ \hline \end{gathered}$ |
| The Arts | $\begin{gathered} 38.2 \\ (25.4-52.3) \end{gathered}$ | $\begin{gathered} 3.7 \\ (0.4-12.5) \end{gathered}$ | $\begin{gathered} 25.4 \\ (14.7-39.0) \end{gathered}$ | $\begin{gathered} 32.7 \\ (20.7-46.7) \end{gathered}$ |
| Industry | $\begin{gathered} 36.4 \\ (31.9-41.1) \end{gathered}$ | $\begin{gathered} 5.0 \\ (3.2-7.5) \\ \hline \end{gathered}$ | $\begin{gathered} 20.0 \\ (16.4-24.1) \end{gathered}$ | $\begin{gathered} 38.6 \\ (34.1-43.4) \end{gathered}$ |
| Transport | $\begin{gathered} 27.7 \\ (19.3-37.5) \\ \hline \end{gathered}$ | $\begin{gathered} 10.9 \\ (5.6-18.6) \\ \hline \end{gathered}$ | $\begin{gathered} 23.8 \\ (15.9-33.3) \\ \hline \end{gathered}$ | $\begin{gathered} 37.6 \\ (28.1-47.8) \\ \hline \end{gathered}$ |
| Military employees | $\begin{gathered} 26.7 \\ (12.3-45.9) \end{gathered}$ | $\begin{gathered} 6.6 \\ (0.8-22.1) \end{gathered}$ | $\begin{gathered} 10.0 \\ (2.1-26.5) \end{gathered}$ | $\begin{gathered} 56.7 \\ (37.4-74.5) \\ \hline \end{gathered}$ |
| Civil servants | $\begin{gathered} 25.8 \\ (18.4-34.4) \end{gathered}$ | $\begin{gathered} 4.8 \\ (1.8-10.2) \\ \hline \end{gathered}$ | $\begin{gathered} 16.1 \\ (10.1-23.8) \end{gathered}$ | $\begin{gathered} 53.3 \\ (44.1-62.2) \end{gathered}$ |
| Office workers | $\begin{gathered} 36.3 \\ (32.5-40.3) \end{gathered}$ | $\begin{gathered} 5.4 \\ (3.8-7.6) \end{gathered}$ | $\begin{gathered} 19.8 \\ (16.7-23.2) \end{gathered}$ | $\begin{gathered} 38.5 \\ (34.6-42.4) \end{gathered}$ |
| Unemployed | $\begin{gathered} 42.2 \\ (31.9-53.1) \end{gathered}$ | $\begin{gathered} 8.9 \\ (3.9-16.8) \end{gathered}$ | $\begin{gathered} 20.0 \\ (12.3-29.8) \end{gathered}$ | $\begin{gathered} 28.9 \\ (19.8-39.4) \end{gathered}$ |
| Children | $\begin{gathered} 58.8 \\ (44.2-72.4) \end{gathered}$ | $\begin{gathered} 3.9 \\ (0.5-13.5) \\ \hline \end{gathered}$ | $\begin{gathered} 15.7 \\ (7.0-28.6) \end{gathered}$ | $\begin{gathered} 21.6 \\ (11.3-35.3) \end{gathered}$ |
| Other | $\begin{gathered} 36.4 \\ (30.6-42.3) \\ \hline \end{gathered}$ | $\begin{gathered} 3.5 \\ (1.6-6.5) \\ \hline \end{gathered}$ | $\begin{gathered} 24.0 \\ (19.0-29.7) \\ \hline \end{gathered}$ | $\begin{gathered} 36.1 \\ (30.2-42.2) \\ \hline \end{gathered}$ |
| Schoolchildren | $\begin{gathered} 32.5 \\ (28.1-37.1) \end{gathered}$ | $\begin{gathered} 4.7 \\ (2.9-7.1) \\ \hline \end{gathered}$ | $\begin{gathered} 23.1 \\ (19.2-27.4) \end{gathered}$ | $\begin{gathered} 39.7 \\ (35.1-44.5) \end{gathered}$ |
| Students | $\begin{gathered} 41.3 \\ (27.0-56.8) \\ \hline \end{gathered}$ | $\begin{gathered} 4.3 \\ (0.5-14.8) \\ \hline \end{gathered}$ | $\begin{gathered} 26.1 \\ (14.3-41.1) \\ \hline \end{gathered}$ | $\begin{gathered} 28.3 \\ (16.0-43.5) \\ \hline \end{gathered}$ |
| Pensioners | $\begin{gathered} 31.4 \\ (28.7-34.3) \end{gathered}$ | $\begin{gathered} 5.7 \\ (4.4-7.2) \end{gathered}$ | $\begin{gathered} 18.7 \\ (16.4-21.2) \end{gathered}$ | $\begin{gathered} 44.2 \\ (41.2-47.2) \end{gathered}$ |
| OVERALL | $\begin{gathered} 32.2 \\ (30.8-33.5) \end{gathered}$ | $\begin{gathered} 5.4 \\ (5.1-6.1) \\ \hline \end{gathered}$ | $\begin{gathered} 22.7 \\ (21.6-24.0) \end{gathered}$ | $\begin{gathered} 39.7 \\ (38.3-41.2) \end{gathered}$ |

## SUPPLEMENTARY MATERIALS FOR ARTICLE ID 14440 <br> (Russian Journal of Infection and Immunity)

| Occupational Group | $\begin{gathered} \text { Value, \% } \\ \text { (95\% confidence interval) } \end{gathered}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Nc-RBD- | Nc+RBD- | RBD+Nc- | NC+RBD+ |
| Stage 2 |  |  |  |  |
| Health workers | $\begin{gathered} 17.9 \\ (15.1-20.9) \end{gathered}$ | $\begin{gathered} 2.4 \\ (1.4-3.9) \end{gathered}$ | $\begin{gathered} 46.9 \\ (43.1-50.7) \end{gathered}$ | $\begin{gathered} 32.8 \\ (29.3-36.4) \end{gathered}$ |
| Scientists | $\begin{gathered} 25.7 \\ (12.5-43.3) \end{gathered}$ | $\begin{gathered} 2.9 \\ (0.7-14.9) \end{gathered}$ | $\begin{gathered} 37.1 \\ (21.5-55.1) \end{gathered}$ | $\begin{gathered} 34.3 \\ (19.1-52.2) \end{gathered}$ |
| Business | $\begin{gathered} 30.7 \\ (24.2-37.8) \end{gathered}$ | $\begin{gathered} 3.7 \\ (1.5-7.5) \end{gathered}$ | $\begin{gathered} 37.6 \\ (30.6-44.9) \end{gathered}$ | $\begin{gathered} 28.0 \\ (21.8-35.0) \end{gathered}$ |
| Education | $\begin{gathered} 19.5 \\ (15.9-23.6) \end{gathered}$ | $\begin{gathered} 3.0 \\ (1.6-5.1) \end{gathered}$ | $\begin{gathered} 44.2 \\ (39.4-42.0) \end{gathered}$ | $\begin{gathered} 33.3 \\ (28.8-37.9) \end{gathered}$ |
| The Arts | $\begin{gathered} 25.5 \\ (14.7-39.0) \end{gathered}$ | $\begin{gathered} 3.6 \\ (0.4-12.5) \end{gathered}$ | $\begin{gathered} 41.8 \\ (2.9-55.9) \end{gathered}$ | $\begin{gathered} 29.1 \\ (17.6-42.9) \end{gathered}$ |
| Industry | $\begin{gathered} 23.9 \\ (20.0-28.1) \\ \hline \end{gathered}$ | $\begin{gathered} 5.2 \\ (3.3-7.7) \end{gathered}$ | $\begin{gathered} 41.6 \\ (36.9-46.4) \\ \hline \end{gathered}$ | $\begin{gathered} 29.3 \\ (25.1-33.8) \\ \hline \end{gathered}$ |
| Transport | $\begin{gathered} 20.8 \\ (13.4-30.1) \\ \hline \end{gathered}$ | $\begin{gathered} 13.9 \\ (7.8-22.2) \\ \hline \end{gathered}$ | $\begin{gathered} 33.7 \\ (24.6-43.8) \end{gathered}$ | $\begin{gathered} 31.7 \\ (22.8-41.7) \\ \hline \end{gathered}$ |
| Military employees | $\begin{gathered} 20.0 \\ (7.7-38.6) \\ \hline \end{gathered}$ | $\begin{gathered} 13.3 \\ (3.8-30.7) \end{gathered}$ | $\begin{gathered} 23.3 \\ (9.9-7-42.3) \end{gathered}$ | $\begin{gathered} 43.3 \\ (25.5-62.6) \end{gathered}$ |
| Civil servants | $\begin{gathered} 23.4 \\ (16.3-31.8) \end{gathered}$ | $\begin{gathered} 4.0 \\ (1.3-9.2) \end{gathered}$ | $\begin{gathered} 29.0 \\ (21.2-37.9) \end{gathered}$ | $\begin{gathered} 43.6 \\ (34.7-52.7) \end{gathered}$ |
| Office workers | $\begin{gathered} 28.0 \\ (24.5-31.8) \end{gathered}$ | $\begin{gathered} 3.6 \\ (2.3-5.5) \end{gathered}$ | $\begin{gathered} 38.0 \\ (34.1-42.0) \end{gathered}$ | $\begin{gathered} 30.4 \\ (26.7-34.2) \end{gathered}$ |
| Unemployed | $\begin{gathered} 30.0 \\ (20.8-40.6) \end{gathered}$ | $\begin{gathered} 4.4 \\ (1.2-11.0) \\ \hline \end{gathered}$ | $\begin{gathered} 35.6 \\ (25.7-43.4) \end{gathered}$ | $\begin{gathered} 30.0 \\ (20.8-40.6) \\ \hline \end{gathered}$ |
| Children | $\begin{gathered} 45.1 \\ (31.1-60.0) \end{gathered}$ | $\begin{gathered} 2.0 \\ (0.5-10.4) \\ \hline \end{gathered}$ | $\begin{gathered} 31.3 \\ (19.1-45.9) \end{gathered}$ | $\begin{gathered} 21.6 \\ (11.3-35.3) \\ \hline \end{gathered}$ |
| Other | $\begin{gathered} 25.6 \\ (20.4-31.4) \end{gathered}$ | $\begin{gathered} 4.7 \\ (2.4-8.0) \end{gathered}$ | $\begin{gathered} 39.9 \\ (33.9-46.2) \end{gathered}$ | $\begin{gathered} 29.8 \\ (24.3-35.8) \end{gathered}$ |
| Schoolchildren | $\begin{gathered} 29.7 \\ (25.4-34.2) \end{gathered}$ | $\begin{gathered} 3.3 \\ (1.8-5.4) \end{gathered}$ | $\begin{gathered} 42.5 \\ (37.8-47.4) \end{gathered}$ | $\begin{gathered} 24.5 \\ (20.5-28.9) \end{gathered}$ |
| Students | $\begin{gathered} 26.1 \\ (14.3-41.1) \end{gathered}$ | $\begin{gathered} 2.1 \\ (0.6-11.5) \\ \hline \end{gathered}$ | $\begin{gathered} 52.2 \\ (3.7-6.7) \end{gathered}$ | $\begin{gathered} \hline 19.6 \\ (9.4-33.9) \end{gathered}$ |
| Pensioners | $\begin{gathered} 23.2 \\ (20.7-25.8) \end{gathered}$ | $\begin{gathered} 2.9 \\ (2.0-4.2) \end{gathered}$ | $\begin{gathered} 34.1 \\ (31.3-37.0) \end{gathered}$ | $\begin{gathered} 39.8 \\ (36.8-42.7) \end{gathered}$ |
| OVERALL | $\begin{gathered} 24.1 \\ (23.0-25.4) \end{gathered}$ | $\begin{gathered} 3.7 \\ (3.2-4.3) \end{gathered}$ | $\begin{gathered} 39.5 \\ (38.1-40.9) \end{gathered}$ | $\begin{gathered} 32.7 \\ (31.3-34.0) \end{gathered}$ |

## SUPPLEMENTARY MATERIALS FOR ARTICLE ID 14440 <br> (Russian Journal of Infection and Immunity)

| Occupational Group | Value, \%(95\% confidence interval) |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Nc-RBD- | Nc+RBD- | RBD+Nc- | NC+RBD+ |
| Stage 3 |  |  |  |  |
| Health workers | $\begin{gathered} 9.0 \\ (7.1-11.4) \\ \hline \end{gathered}$ | $\begin{gathered} 1.7 \\ (0.9-3.0) \\ \hline \end{gathered}$ | $\begin{gathered} 40.1 \\ (36.4-43.8) \end{gathered}$ | $\begin{gathered} 49.2 \\ (45.5-52.9) \end{gathered}$ |
| Scientists | $\begin{gathered} 2.8 \\ (0.7-14.9) \end{gathered}$ | 0 | $\begin{gathered} 54.3 \\ (36.6-71.2) \\ \hline \end{gathered}$ | $\begin{gathered} 42.9 \\ (26.3-60.6) \end{gathered}$ |
| Business | $\begin{gathered} 14.8 \\ (10.1-20.7) \end{gathered}$ | $\begin{gathered} 4.2 \\ (1.8-8.2) \end{gathered}$ | $\begin{gathered} 34.4 \\ (27.6-41.6) \end{gathered}$ | $\begin{gathered} 46.6 \\ (39.3-53.9) \end{gathered}$ |
| Education | $\begin{gathered} 11.4 \\ (8.6-14.8) \end{gathered}$ | $\begin{gathered} 2.6 \\ (1.3-4.5) \end{gathered}$ | $\begin{gathered} 39.3 \\ (34.7-44.1) \end{gathered}$ | $\begin{gathered} 46.7 \\ (42.0-51.6) \end{gathered}$ |
| The Arts | $\begin{gathered} 14.5 \\ (6.5-26.7) \\ \hline \end{gathered}$ | $\begin{gathered} 1.8 \\ (0.05-9.7) \\ \hline \end{gathered}$ | $\begin{gathered} 36.4 \\ (23.8-50.4) \end{gathered}$ | $\begin{gathered} 47.3 \\ (33.6-61.2) \end{gathered}$ |
| Industry | 12.1(9.2-15.5) | $\begin{gathered} 2.1 \\ (0.9-3.8) \end{gathered}$ | $\begin{gathered} 35.2 \\ (30.8-39.9) \\ \hline \end{gathered}$ | $\begin{gathered} 50.7 \\ (45.9-55.5) \\ \hline \end{gathered}$ |
| Transport | $\begin{gathered} 6.9 \\ (2.8-13.8) \end{gathered}$ | $\begin{gathered} 4.0 \\ (1.1-9.8) \end{gathered}$ | $\begin{gathered} 37.6 \\ (28.2-47.8) \end{gathered}$ | $\begin{gathered} 51.5 \\ (41.3-61.6) \end{gathered}$ |
| Military employees | $\begin{gathered} 6.7 \\ (0.8-22.1) \end{gathered}$ | $\begin{gathered} 3.3 \\ (0.08-13.2) \end{gathered}$ | $\begin{gathered} 36.7 \\ (19.9-56.1) \end{gathered}$ | $\begin{gathered} 53.3 \\ (34.3-71.7) \end{gathered}$ |
| Civil servants | $\begin{gathered} 8.9 \\ (4.5-15.3) \\ \hline \end{gathered}$ | $\begin{gathered} 2.4 \\ (0.5-6.9) \end{gathered}$ | $\begin{gathered} 31.4 \\ (23.4-40.4) \\ \hline \end{gathered}$ | $\begin{gathered} 57.3 \\ (48.1-66.1) \end{gathered}$ |
| Office workers | $\begin{gathered} 13.7 \\ (11.1-16.7) \end{gathered}$ | $\begin{gathered} 2.8 \\ (1.6-4.4) \end{gathered}$ | $\begin{gathered} 32.0 \\ (28.3-35.9) \end{gathered}$ | $\begin{gathered} 51.5 \\ (47.4-55.5) \end{gathered}$ |
| Unemployed | $\begin{gathered} 12.2 \\ (6.3-20.8) \end{gathered}$ | $\begin{gathered} 1.1 \\ (0.03-6.0) \end{gathered}$ | $\begin{gathered} 36.7 \\ (26.8-47.5) \end{gathered}$ | $\begin{gathered} 50.0 \\ (39.3-60.7) \end{gathered}$ |
| Children | $\begin{gathered} 25.5 \\ (14.3-39.6) \\ \hline \end{gathered}$ | $\begin{gathered} 2.0 \\ (0.1-10.5) \\ \hline \end{gathered}$ | $\begin{gathered} 37.2 \\ (24.1-51.9) \end{gathered}$ | $\begin{gathered} 35.3 \\ (22.4-49.9) \\ \hline \end{gathered}$ |
| Other | $\begin{gathered} 14.0 \\ (10.0-18.8) \\ \hline \end{gathered}$ | $\begin{gathered} 3.9 \\ (1.9-7.0) \\ \hline \end{gathered}$ | $\begin{gathered} 38.0 \\ (32.0-44.2) \end{gathered}$ | $\begin{gathered} 44.1 \\ (38.0-50.5) \\ \hline \end{gathered}$ |
| Schoolchildren | $\begin{gathered} 15.0 \\ (11.7-18.7) \\ \hline \end{gathered}$ | $\begin{gathered} 2.1 \\ (1.0-4.0) \end{gathered}$ | $\begin{gathered} 37.2 \\ (32.6-41.9) \end{gathered}$ | $\begin{gathered} 45.8 \\ (41.0-50.6) \\ \hline \end{gathered}$ |
| Students | $\begin{gathered} 8.7 \\ (2.4-20.8) \end{gathered}$ | 0 | $\begin{gathered} 56.5 \\ (41.1-71.1) \end{gathered}$ | $\begin{gathered} 34.8 \\ (21.4-50.2) \end{gathered}$ |
| Pensioners | $\begin{gathered} 12.2 \\ (10.3-14.3) \\ \hline \end{gathered}$ | $\begin{gathered} 2.4 \\ (1.6-3.5) \\ \hline \end{gathered}$ | $\begin{gathered} 32.7 \\ (29.9-35.6) \end{gathered}$ | $\begin{gathered} 52.6 \\ (49.6-55.7) \end{gathered}$ |
| OVERALL | $\begin{gathered} 12.1 \\ (11.2-13.1) \end{gathered}$ | $\begin{gathered} 2.4 \\ (2.0-2.9) \\ \hline \end{gathered}$ | $\begin{gathered} 36.0 \\ (34.6-37.4) \\ \hline \end{gathered}$ | $\begin{gathered} 49.5 \\ (48.0-50.4) \end{gathered}$ |

## SUPPLEMENTARY MATERIALS FOR ARTICLE ID 14440 <br> (Russian Journal of Infection and Immunity)

| Occupational Group | $\begin{gathered} \text { Value, \% } \\ \text { (95\% confidence interval) } \end{gathered}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Nc-RBD- | Nc+RBD- | RBD+Nc- | NC+RBD+ |
| Stage 4 |  |  |  |  |
| Health workers | $\begin{gathered} 1.4 \\ (0.7-2.6) \end{gathered}$ | $\begin{gathered} 1.4 \\ (07-2.6) \\ \hline \end{gathered}$ | $\begin{gathered} 19.0 \\ (16.2-22.1) \end{gathered}$ | $\begin{gathered} 78.1 \\ (74.9-81.1) \end{gathered}$ |
| Scientists | 0 | 0 | $\begin{gathered} 25.7 \\ (12.5-43.3) \end{gathered}$ | $\begin{gathered} 74.3 \\ (56.7-87.5) \end{gathered}$ |
| Business | $\begin{gathered} 2.1 \\ (0.6-5.3) \\ \hline \end{gathered}$ | $\begin{gathered} 1.6 \\ (0.3-4.6) \\ \hline \end{gathered}$ | $\begin{gathered} 16.4 \\ (11.4-22.5) \\ \hline \end{gathered}$ | $\begin{gathered} 79.9 \\ (73.5-85.4) \\ \hline \end{gathered}$ |
| Education | $\begin{gathered} 0.9 \\ (0.2-2.4) \\ \hline \end{gathered}$ | $\begin{gathered} 2.1 \\ (1.0-3.9) \end{gathered}$ | $\begin{gathered} 15.1 \\ (11.7-18.9) \end{gathered}$ | $\begin{gathered} 81.9 \\ (77.9-85.4) \end{gathered}$ |
| the Arts | $\begin{gathered} 3.6 \\ (0.4-12.5) \end{gathered}$ | $\begin{gathered} 3.6 \\ (0.4-12.5) \end{gathered}$ | $\begin{gathered} 14.6 \\ (6.5-26.7) \end{gathered}$ | $\begin{gathered} 78.2 \\ (65.0-88.2) \end{gathered}$ |
| Industry | $\begin{gathered} 2.5 \\ (1.3-4.4) \end{gathered}$ | $\begin{gathered} 0.9 \\ (0.2-2.3) \\ \hline \end{gathered}$ | $\begin{gathered} 13.9 \\ (10.8-17.4) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 82.7 \\ (78.9-86.1) \\ \hline \end{gathered}$ |
| Transport | $\begin{gathered} 1.0 \\ (0.03-5.4) \end{gathered}$ | $\begin{gathered} 3.0 \\ (0.6-8.4) \end{gathered}$ | $\begin{gathered} 14.8 \\ (8.6-23.3) \end{gathered}$ | $\begin{gathered} 81.2 \\ (72.2-88.3) \end{gathered}$ |
| Military employees | 0 | 0 | $\begin{gathered} 16.7 \\ (5.6-34.7) \end{gathered}$ | $\begin{gathered} 83.3 \\ (65.3-94.4) \end{gathered}$ |
| Civil servants | 0 | $\begin{gathered} 3.2 \\ (0.9-8.1) \end{gathered}$ | $\begin{gathered} 11.3 \\ (6.3-18.2) \end{gathered}$ | $\begin{gathered} 85.5 \\ (78.0-91.2) \end{gathered}$ |
| Office workers | $\begin{gathered} 2.8 \\ (1.6-4.4) \end{gathered}$ | $\begin{gathered} 2.2 \\ (1.2-3.6) \end{gathered}$ | $\begin{gathered} 13.5 \\ (10.9-16.5) \end{gathered}$ | $\begin{gathered} 81.5 \\ (78.2-84.5) \\ \hline \end{gathered}$ |
| Unemployed | 0 | $\begin{gathered} 2.2 \\ (0.3-7.8) \\ \hline \end{gathered}$ | $\begin{gathered} 15.6 \\ (8.7-24.7) \\ \hline \end{gathered}$ | $\begin{gathered} 82.2 \\ (72.7-89.5) \\ \hline \end{gathered}$ |
| Children | $\begin{gathered} 2.0 \\ (0.05-10.4) \end{gathered}$ | $\begin{gathered} 7.8 \\ (2.2-18.9) \end{gathered}$ | $\begin{gathered} 11.8 \\ (4.4-23.9) \end{gathered}$ | $\begin{gathered} 78.4 \\ (64.5-88.7) \end{gathered}$ |
| Other | $\begin{gathered} 1.9 \\ (0.6-4.5) \\ \hline \end{gathered}$ | $\begin{gathered} 1.6 \\ (0.4-3.9) \\ \hline \end{gathered}$ | $\begin{gathered} 20.9 \\ (16.1-26.4) \end{gathered}$ | $\begin{gathered} 75.6 \\ (70.0-80.7) \end{gathered}$ |
| Schoolchildren | $\begin{gathered} 1.9 \\ (0.8-3.6) \\ \hline \end{gathered}$ | $\begin{gathered} 2.8 \\ (1.5-4.8) \\ \hline \end{gathered}$ | $\begin{gathered} 11.0 \\ (8.2-14.3) \end{gathered}$ | $\begin{gathered} 84.3 \\ (80.6-87.7) \end{gathered}$ |
| Students | 0 | 0 | $\begin{gathered} 13.0 \\ (4.9-26.3) \end{gathered}$ | $\begin{gathered} 87.0 \\ (73.7-95.1) \end{gathered}$ |
| Pensioners | $\begin{gathered} 3.2 \\ (2.3-4.5) \end{gathered}$ | $\begin{gathered} 2.7 \\ (1.8-3.8) \end{gathered}$ | $\begin{gathered} 17.1 \\ (14.8-19.4) \end{gathered}$ | $\begin{gathered} 77.0 \\ (74.4-79.5) \end{gathered}$ |
| OVERALL | $\begin{gathered} 2.1 \\ (1.7-2.6) \end{gathered}$ | $\begin{gathered} 2.1 \\ (1.7-2.6) \end{gathered}$ | $\begin{gathered} 15.8 \\ (14.7-16.8) \end{gathered}$ | $\begin{gathered} 80.0 \\ (78.8-81.2) \\ \hline \end{gathered}$ |

## SUPPLEMENTARY MATERIALS FOR ARTICLE ID 14440 (Russian Journal of Infection and Immunity)

Table S4. Distributions by volunteer Nc Ab level and age

| Age group, years | Antibody interval, BAU/ml |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & 16.8-31.2 \\ & \%(95 \% C I) \end{aligned}$ | $\begin{gathered} \hline 31.3-125.6 \\ \%(95 \% C I) \end{gathered}$ | $\begin{aligned} & 125.8-251.2 \\ & \%(95 \% \text { CI) } \end{aligned}$ | $\begin{aligned} & 251.4-502.5 \\ & \%(95 \% \text { CI) } \end{aligned}$ | $\begin{gathered} >502.5 \\ \%(95 \% \text { CI }) \end{gathered}$ |
| Stage 1 |  |  |  |  |  |
| 1-17 | $\begin{gathered} 13.7 \\ (10.9-16.9) \\ \hline \end{gathered}$ | $\begin{gathered} 21.8 \\ (18.4-25.4) \\ \hline \end{gathered}$ | $\begin{gathered} 5.7 \\ (3.9-8.0) \end{gathered}$ | $\begin{gathered} 1.3 \\ (0.5-2.6) \\ \hline \end{gathered}$ | $\begin{gathered} 0.7 \\ (0.2-1.9) \\ \hline \end{gathered}$ |
| 18-29 | $\begin{gathered} 9.8 \\ (7.1-13.2) \end{gathered}$ | $\begin{gathered} 17.0 \\ (16.1-22.2) \end{gathered}$ | $\begin{gathered} 2.5 \\ (1.2-4.5) \end{gathered}$ | $\begin{gathered} 1.2 \\ (0.4-2.8) \end{gathered}$ | $\begin{gathered} 1 \\ (0.3-2.5) \end{gathered}$ |
| 30-39 | $\begin{gathered} 9.3 \\ (7.2-11.8) \end{gathered}$ | $\begin{gathered} 19.0 \\ (16.1-22.2) \end{gathered}$ | $\begin{gathered} 4.7 \\ (3.2-6.6) \end{gathered}$ | $\begin{gathered} 2.1 \\ (1.2-3.5) \end{gathered}$ | $\begin{gathered} 0.6 \\ (0.2-1.5) \\ \hline \end{gathered}$ |
| 40-49 | $\begin{gathered} 9.5 \\ (7.6-11.7) \\ \hline \end{gathered}$ | $\begin{gathered} 20.5 \\ (17.8-23.4) \\ \hline \end{gathered}$ | $\begin{gathered} 6.8 \\ (5.2-8.8) \\ \hline \end{gathered}$ | $\begin{gathered} 2.9 \\ (1.9-4.3) \\ \hline \end{gathered}$ | $\begin{gathered} 1.6 \\ (0.7-2.7) \\ \hline \end{gathered}$ |
| 50-59 | $\begin{gathered} 11.3 \\ (9.2-13.8) \end{gathered}$ | $\begin{gathered} 25.6 \\ (22.6-28.8) \end{gathered}$ | $\begin{gathered} 9.6 \\ (7.6-11.8) \end{gathered}$ | $\begin{gathered} 4.2 \\ (2.9-5.8) \end{gathered}$ | $\begin{gathered} 3 \\ (2.0-4.5) \end{gathered}$ |
| 60-69 | $\begin{gathered} 7.8 \\ (5.9-10.1) \end{gathered}$ | $\begin{gathered} 22.3 \\ (19.3-25.6) \end{gathered}$ | $\begin{gathered} 11.8 \\ (9.5-14.4) \\ \hline \end{gathered}$ | $\begin{gathered} 6.1 \\ (4.5-8.1) \end{gathered}$ | $\begin{gathered} 4.8 \\ (3.3-6.7) \end{gathered}$ |
| $70^{+}$ | $\begin{gathered} 6.9 \\ (5.2-9.0) \\ \hline \end{gathered}$ | $\begin{gathered} 20.6 \\ (17.8-24.8) \end{gathered}$ | $\begin{gathered} 10.4 \\ (8.3-12.9) \\ \hline \end{gathered}$ | $\begin{gathered} 7.7 \\ (5.9-9.9) \end{gathered}$ | $\begin{gathered} 4.3 \\ (2.9-6.0) \\ \hline \end{gathered}$ |
| OVERALL | $\begin{gathered} 9.7 \\ (8.8-10.5) \end{gathered}$ | $\begin{gathered} 21.3 \\ (20.1-22.5) \\ \hline \end{gathered}$ | $\begin{gathered} 7.8 \\ (7.1-8.6) \end{gathered}$ | $\begin{gathered} 3.9 \\ (3.4-4.5) \end{gathered}$ | $\begin{gathered} 2.5 \\ (2.2-3.0) \end{gathered}$ |
| Stage 2 |  |  |  |  |  |
| 1-17 | $\begin{gathered} 9.1 \\ (6.9-11.9) \\ \hline \end{gathered}$ | $\begin{gathered} 14.1 \\ (11.3-17.3) \end{gathered}$ | $\begin{gathered} 2.6 \\ (1.4-4.3) \end{gathered}$ | $\begin{gathered} 0.7 \\ (0.2-1.9) \\ \hline \end{gathered}$ | $\begin{gathered} 0.7 \\ (0.2-1.9) \\ \hline \end{gathered}$ |
| 18-29 | $\begin{gathered} 9.6 \\ (6.9-12.1) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 8.9 \\ (6.3-12.1) \\ \hline \end{gathered}$ | $\begin{gathered} 2.7 \\ (1.4-4.8) \end{gathered}$ | $\begin{gathered} 1.2 \\ (0.4-2.8) \end{gathered}$ | $\begin{gathered} 0.5 \\ (0.1-1.8) \end{gathered}$ |
| 30-39 | $\begin{gathered} 10.4 \\ (8.2-13.0) \end{gathered}$ | $\begin{gathered} 13.7 \\ (11.2-16.6) \end{gathered}$ | $\begin{gathered} 3.3 \\ (2.1-5.0) \end{gathered}$ | $\begin{gathered} 1.1 \\ (1.1-2.2) \end{gathered}$ | $\begin{gathered} 0.9 \\ (0.3-2.0) \\ \hline \end{gathered}$ |
| 40-49 | $\begin{gathered} 10.4 \\ (8.4-12.7) \end{gathered}$ | $\begin{gathered} 16.1 \\ (13.6-18.8) \end{gathered}$ | $\begin{gathered} 4.5 \\ (3.2-6.2) \end{gathered}$ | $\begin{gathered} 1.5 \\ (0.8-2.5) \end{gathered}$ | $\begin{gathered} 1.1 \\ (0.5-2.1) \end{gathered}$ |
| 50-59 | $\begin{gathered} 11.6 \\ (9.5-14.4) \\ \hline \end{gathered}$ | $\begin{gathered} 23.1 \\ (20.2-26.2) \end{gathered}$ | $\begin{gathered} 6.3 \\ (4.7-8.2) \end{gathered}$ | $\begin{gathered} 2.4 \\ (1.4-3.7) \end{gathered}$ | $\begin{gathered} 0.8 \\ (0.3-1.6) \\ \hline \end{gathered}$ |
| 60-69 | $\begin{gathered} 10.6 \\ (8.5-13.2) \end{gathered}$ | $\begin{gathered} 20.9 \\ (17.9-24.1) \\ \hline \end{gathered}$ | $\begin{gathered} 7.4 \\ (5.6-9.6) \end{gathered}$ | $\begin{gathered} 3.7 \\ (2.4-5.4) \end{gathered}$ | $\begin{gathered} 1.8 \\ (1.0-3.1) \end{gathered}$ |
| $70^{+}$ | $\begin{gathered} 10.4 \\ (8.3-12.9) \end{gathered}$ | $\begin{gathered} 20.5 \\ (17.6-23.6) \end{gathered}$ | $\begin{gathered} 7.7 \\ (5.9-9.9) \end{gathered}$ | $\begin{gathered} 2.9 \\ (1.8-4.4) \end{gathered}$ | $\begin{gathered} 2.5 \\ (1.5-2.9) \end{gathered}$ |
| OVERALL | $\begin{gathered} 10.4 \\ (9.6-11.3) \\ \hline \end{gathered}$ | $\begin{gathered} 17.5 \\ (16.4-18.6) \end{gathered}$ | $\begin{gathered} 5.2 \\ (4.6-5.9) \end{gathered}$ | $\begin{gathered} 2.0 \\ (1.6-2.5) \end{gathered}$ | $\begin{gathered} 1.2 \\ (1.0-1.6) \end{gathered}$ |

## SUPPLEMENTARY MATERIALS FOR ARTICLE ID 14440

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| Age group, years | Antibody interval, BAU/ml |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{\|l\|} \hline 16.8-31.2 \\ \%(95 \% C I) \end{array}$ | $\begin{gathered} \hline 31.3-125.6 \\ \%(95 \% \text { CI) } \end{gathered}$ | $\begin{aligned} & 125.8-251.2 \\ & \%(95 \% \text { CI) } \end{aligned}$ | $\begin{aligned} & 251.4-502.5 \\ & \%(95 \% \text { CI) } \end{aligned}$ | $\begin{gathered} >502.5 \\ \%(95 \% \text { CI }) \\ \hline \end{gathered}$ |
| 1-17 | $\begin{gathered} 10.1 \\ (7.7-12.9) \end{gathered}$ | $\begin{gathered} 21.2 \\ (17.8-24.9) \end{gathered}$ | $\begin{gathered} 8.2 \\ (6.1-10.8) \end{gathered}$ | $\begin{gathered} 3.1 \\ (1.8-4.9) \end{gathered}$ | $\begin{gathered} 4.2 \\ (2.7-6.2) \end{gathered}$ |
| 18-29 | $\begin{gathered} 9.6 \\ (6.9-12.9) \\ \hline \end{gathered}$ | $\begin{gathered} 18.5 \\ (14.8-22.6) \end{gathered}$ | $\begin{gathered} 4.9 \\ (3.0-7.5) \\ \hline \end{gathered}$ | $\begin{gathered} 3.4 \\ (1.9-5.7) \\ \hline \end{gathered}$ | $\begin{gathered} 3.9 \\ (2.3-6.3) \end{gathered}$ |
| 30-39 | $\begin{gathered} 14.1 \\ (11.5-16.9) \end{gathered}$ | $\begin{gathered} 20.3 \\ (14.3-23.6) \end{gathered}$ | $\begin{gathered} 5.4 \\ (3.8-7.4) \end{gathered}$ | $\begin{gathered} 3.0 \\ (1.8-4.6) \\ \hline \end{gathered}$ | $\begin{gathered} 3.9 \\ (2.6-5.7) \end{gathered}$ |
| 40-49 | $\begin{gathered} 12.6 \\ (10.4-15.0) \end{gathered}$ | $\begin{gathered} 23.9 \\ (21.0-27.0) \\ \hline \end{gathered}$ | $\begin{gathered} 7.8 \\ (6.1-9.9) \\ \hline \end{gathered}$ | $\begin{gathered} 4.0 \\ (2.8-5.6) \end{gathered}$ | $\begin{gathered} 4.3 \\ (3.0-5.9) \end{gathered}$ |
| 50-59 | $\begin{gathered} 10.5 \\ (8.4-12.8) \end{gathered}$ | $\begin{gathered} 28.0 \\ (24.9-31.2) \end{gathered}$ | $\begin{gathered} 7.8 \\ (6.1-9.9) \end{gathered}$ | $\begin{gathered} 5.3 \\ (3.8-7.1) \end{gathered}$ | $\begin{gathered} 5.0 \\ (3.6-6.8) \end{gathered}$ |
| 60-69 | $\begin{gathered} 11.1 \\ (8.8-13.6) \end{gathered}$ | $\begin{gathered} 24.2 \\ (21.0-27.5) \end{gathered}$ | $\begin{gathered} 9.5 \\ (7.4-11.9) \end{gathered}$ | $\begin{gathered} 6.4 \\ (4.7-8.5) \end{gathered}$ | $\begin{gathered} 6.1 \\ (4.5-8.1) \end{gathered}$ |
| $70^{+}$ | $\begin{gathered} 10.7 \\ (8.6-13.2) \end{gathered}$ | $\begin{gathered} 23.8 \\ (20.7-27.1) \end{gathered}$ | $\begin{gathered} 8.2 \\ (6.4-10.5) \\ \hline \end{gathered}$ | $\begin{gathered} 6.3 \\ (4.7-8.4) \end{gathered}$ | $\begin{gathered} 6.6 \\ (4.9-8.7) \end{gathered}$ |
| OVERALL | $\begin{gathered} 11.4 \\ (10.5-12.3) \end{gathered}$ | $\begin{gathered} 23.3 \\ (22.1-24.6) \end{gathered}$ | $\begin{gathered} 7.6 \\ (6.9-8.4) \end{gathered}$ | $\begin{gathered} 4.7 \\ (3.2-5.3) \end{gathered}$ | $\begin{gathered} 5.0 \\ (3.9-5.6) \end{gathered}$ |
| Stage 4 |  |  |  |  |  |
| 1-17 | $\begin{gathered} \hline 11.0 \\ (8.5-13.9) \\ \hline \end{gathered}$ | $\begin{gathered} 34.4 \\ (30.4-38.5) \\ \hline \end{gathered}$ | $\begin{gathered} 20.3 \\ (17.0-23.9) \end{gathered}$ | $\begin{gathered} \hline 11.2 \\ (8.6-14.1) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 8.4 \\ (6.2-11.1) \\ \hline \end{gathered}$ |
| 18-29 | $\begin{gathered} 15.3 \\ (11.9-19.1) \end{gathered}$ | $\begin{gathered} 36.7 \\ (32.0-41.6) \\ \hline \end{gathered}$ | $\begin{gathered} 17.2 \\ (13.7-21.0) \end{gathered}$ | $\begin{gathered} 7.9 \\ (5.4-10.0) \\ \hline \end{gathered}$ | $\begin{gathered} 5.2 \\ (3.2-7.8) \\ \hline \end{gathered}$ |
| 30-39 | $\begin{gathered} 13.9 \\ (11.3-16.7) \end{gathered}$ | $\begin{gathered} 38.7 \\ (35.0-42.5) \\ \hline \end{gathered}$ | $\begin{gathered} 14.5 \\ (11.9-17.4) \end{gathered}$ | $\begin{gathered} 7.7 \\ (5.8-10.0) \end{gathered}$ | $\begin{gathered} 6.8 \\ (5.0-9.0) \end{gathered}$ |
| 40-49 | $\begin{gathered} 14.8 \\ (12.4-17.4) \end{gathered}$ | $\begin{gathered} \hline 33.8 \\ (30.6-37.1) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 16.0 \\ (14.0-18.7) \end{gathered}$ | $\begin{gathered} 11.3 \\ (9.2-13.7) \end{gathered}$ | $\begin{gathered} \hline 7.7 \\ (6.0-9.7) \\ \hline \end{gathered}$ |
| 50-59 | $\begin{gathered} 12.4 \\ (10.2-14.8) \end{gathered}$ | $\begin{gathered} 32.3 \\ (29.0-35.7) \end{gathered}$ | $\begin{gathered} 16.6 \\ (14.1-19.4) \end{gathered}$ | $\begin{gathered} 7.8 \\ (6.1-9.9) \end{gathered}$ | $\begin{gathered} 13.9 \\ (11.5-16.5) \end{gathered}$ |
| 60-69 | $\begin{gathered} 11.9 \\ (9.6-14.6) \end{gathered}$ | $\begin{gathered} 31.7 \\ (28.2-35.3) \\ \hline \end{gathered}$ | $\begin{gathered} 14.6 \\ (12.1-20.1) \end{gathered}$ | $\begin{gathered} 9.1 \\ (7.1-11.5) \\ \hline \end{gathered}$ | $\begin{gathered} 11.6 \\ (9.4-14.2) \\ \hline \end{gathered}$ |
| $70^{+}$ | $\begin{gathered} 10.4 \\ (8.3-12.9) \end{gathered}$ | $\begin{gathered} 34.7 \\ (31.2-38.2) \\ \hline \end{gathered}$ | $\begin{gathered} 17.2 \\ (14.5-20.1) \\ \hline \end{gathered}$ | $\begin{gathered} 8.2 \\ (6.4-10.5) \\ \hline \end{gathered}$ | $\begin{gathered} 10.4 \\ (8.3-12.9) \end{gathered}$ |
| OVERALL | $\begin{gathered} 12.7 \\ (11.8-13.7) \end{gathered}$ | $\begin{gathered} 34.4 \\ (33.0-35.8) \\ \hline \end{gathered}$ | $\begin{gathered} 16.5 \\ (15.4-17.6) \\ \hline \end{gathered}$ | $\begin{gathered} 9.1 \\ (8.3-9.9) \\ \hline \end{gathered}$ | $\begin{gathered} 9.5 \\ (8.7-10.4) \\ \hline \end{gathered}$ |

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Table S5. Distributions by volunteer RBD Ab level and age

| Age group, years | Antibody interval, BAU/ml |  |  |
| :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 22.6-220 \\ \%(95 \% \text { CI) } \end{gathered}$ | $\begin{gathered} 221-450 \\ \%(95 \% \text { CI) } \end{gathered}$ | $\begin{gathered} >450 \\ \%(95 \% \mathrm{CI}) \end{gathered}$ |
| Stage 1 |  |  |  |
| 1-17 | $\begin{gathered} 44.6 \\ (40.4-48.8) \end{gathered}$ | $\begin{gathered} \hline 8.8 \\ (6.5-11.5) \end{gathered}$ | $\begin{gathered} 6.8 \\ (4.8-9.2) \end{gathered}$ |
| 18-29 | $\begin{gathered} 36.7 \\ (32.0-41.6) \\ \hline \end{gathered}$ | $\begin{gathered} 8.6 \\ (6.1-11.8) \end{gathered}$ | $\begin{gathered} 12.3 \\ (9.3-15.9) \end{gathered}$ |
| 30-39 | $\begin{gathered} 39.5 \\ (35.7-43.3) \\ \hline \end{gathered}$ | $\begin{gathered} 9.6 \\ (7.5-12.1) \end{gathered}$ | $\begin{gathered} 9.9 \\ (7.8-12.5) \end{gathered}$ |
| 40-49 | $\begin{gathered} 39.0 \\ (32.7-42.5) \\ \hline \end{gathered}$ | $\begin{gathered} 8.7 \\ (6.8-10.8) \\ \hline \end{gathered}$ | $\begin{gathered} 14.5 \\ (12.2-17.7) \end{gathered}$ |
| 50-59 | $\begin{gathered} 33.7 \\ (30.4-37.1) \end{gathered}$ | $\begin{gathered} 13.2 \\ (11.0-15.8) \end{gathered}$ | $\begin{gathered} 19.0 \\ (17.1-22.7) \end{gathered}$ |
| 60-69 | $\begin{gathered} 26.4 \\ (23.2-29.8) \end{gathered}$ | $\begin{gathered} 13.8 \\ (11.3-16.6) \end{gathered}$ | $\begin{gathered} 21.6 \\ (18.6-24.8) \end{gathered}$ |
| $70^{+}$ | $\begin{gathered} 30 \\ (26.7-33.5) \\ \hline \end{gathered}$ | $\begin{gathered} 14.2 \\ (11.7-16.9) \\ \hline \end{gathered}$ | $\begin{gathered} 23.1 \\ (20.1-26.4) \\ \hline \end{gathered}$ |
| OVERALL | $\begin{gathered} 35.3 \\ (34.0-36.7) \end{gathered}$ | $\begin{gathered} 11.2 \\ (10.3-12.2) \end{gathered}$ | $\begin{gathered} 15.9 \\ (14.2-17.0) \end{gathered}$ |
| Stage 2 |  |  |  |
| 1-17 | $\begin{gathered} 49.3 \\ (45.0-53.7) \end{gathered}$ | $\begin{gathered} 8.3 \\ (6.1-11.0) \end{gathered}$ | $\begin{gathered} 9.1 \\ (6.8-11.8) \end{gathered}$ |
| 18-29 | $\begin{gathered} 41.7 \\ (36.8-46.7) \end{gathered}$ | $\begin{gathered} 8.0 \\ (5.6-11.2) \end{gathered}$ | $\begin{gathered} 17.6 \\ (14.0-21.7) \end{gathered}$ |
| 30-39 | $\begin{gathered} 40.1 \\ (36.2-44.0) \end{gathered}$ | $\begin{gathered} 9.8 \\ (7.6-12.3) \\ \hline \end{gathered}$ | $\begin{gathered} 17.7 \\ (14.8-20.9) \\ \hline \end{gathered}$ |
| 40-49 | $\begin{gathered} 37.6 \\ (34.2-41.0) \end{gathered}$ | $\begin{gathered} 11.8 \\ (9.6-14.2) \\ \hline \end{gathered}$ | $\begin{gathered} 21.2 \\ (18.4-24.2) \end{gathered}$ |
| 50-59 | $\begin{gathered} 38.7 \\ (35.3-42.2) \\ \hline \end{gathered}$ | $\begin{gathered} 12.7 \\ (10.4-15.3) \end{gathered}$ | $\begin{gathered} 25.4 \\ (22.3-28.6) \\ \hline \end{gathered}$ |
| 60-69 | $\begin{gathered} 36.7 \\ (34.4-41.6) \end{gathered}$ | $\begin{gathered} 13.4 \\ (10.9-16.1) \end{gathered}$ | $\begin{gathered} 25.0 \\ (21.8-28.4) \end{gathered}$ |
| $70^{+}$ | $\begin{gathered} 37.9 \\ (34.4-41.6) \\ \hline \end{gathered}$ | $\begin{gathered} 13.7 \\ (11.3-16.5) \\ \hline \end{gathered}$ | $\begin{gathered} 20.6 \\ (17.7-23.7) \\ \hline \end{gathered}$ |
| OVERALL | $\begin{gathered} 39.8 \\ (38.4-41.2) \end{gathered}$ | $\begin{gathered} 11.5 \\ (10.6-12.4) \end{gathered}$ | $\begin{gathered} 20.2 \\ (19.1-21.4) \end{gathered}$ |

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| Stage 3 |  |  |  |
| :---: | :---: | :---: | :---: |
| 1-17 | $\begin{gathered} 53.41 \\ (49.1-57.7) \end{gathered}$ | $\begin{gathered} 13.1 \\ (10.4-16.2) \end{gathered}$ | $\begin{gathered} 16.0 \\ (13.0-19.4) \end{gathered}$ |
| 18-29 | $\begin{gathered} 40.0 \\ (35.2-45.0) \\ \hline \end{gathered}$ | $\begin{gathered} 18.3 \\ (14.6-22.4) \end{gathered}$ | $\begin{gathered} 24.9 \\ (20.8-29.4) \\ \hline \end{gathered}$ |
| 30-39 | $\begin{gathered} 40.5 \\ (36.7-44.3) \end{gathered}$ | $\begin{gathered} 20.2 \\ (17.2-23.5) \end{gathered}$ | $\begin{gathered} 22.4 \\ (19.2-25.7 \end{gathered}$ |
| 40-49 | $\begin{gathered} 37.6 \\ (34.3-41.1) \end{gathered}$ | $\begin{gathered} 18.1 \\ (15.5-20.9) \end{gathered}$ | $\begin{gathered} 29.6 \\ (26.5-32.8) \end{gathered}$ |
| 50-59 | $\begin{gathered} 34.5 \\ (31.2-37.9) \\ \hline \end{gathered}$ | $\begin{gathered} 17.8 \\ (15.2-20.6) \\ \hline \end{gathered}$ | $\begin{gathered} 35.7 \\ (32.4-39.2) \\ \hline \end{gathered}$ |
| 60-69 | $\begin{gathered} 34.8 \\ (31.3-38.4) \end{gathered}$ | $\begin{gathered} 14.6 \\ (12.1-17.5) \end{gathered}$ | $\begin{gathered} 39.1 \\ (35.4-42.8) \end{gathered}$ |
| $70^{+}$ | $\begin{gathered} 35 \\ (31.5-38.6) \end{gathered}$ | $\begin{gathered} 15.8 \\ (13.3-18.7) \end{gathered}$ | $\begin{gathered} 36.0 \\ (32.4-39.6) \end{gathered}$ |
| OVERALL | $\begin{gathered} 38.7 \\ (37.3-40.1) \end{gathered}$ | $\begin{gathered} 16.9 \\ (15.8-18.1) \end{gathered}$ | $\begin{gathered} 30.0 \\ (28.7-31.4) \end{gathered}$ |
| Stage 4 |  |  |  |
| 1-17 | $\begin{gathered} 33.8 \\ (29.9-38.0) \end{gathered}$ | $\begin{gathered} 25.6 \\ (22.0-29.5) \end{gathered}$ | $\begin{gathered} 35.8 \\ (31.8-40.0) \end{gathered}$ |
| 18-29 | $\begin{gathered} 28.8 \\ (24.5-33.5) \end{gathered}$ | $\begin{gathered} 28.3 \\ (24.0-33.0) \end{gathered}$ | $\begin{gathered} 38.2 \\ (33.4-43.1) \end{gathered}$ |
| 30-39 | $\begin{gathered} 27.7 \\ (24.3-31.3) \end{gathered}$ | $\begin{gathered} 23.0 \\ (19.6-25.5) \end{gathered}$ | $\begin{gathered} 44.0 \\ (40.2-47.8) \end{gathered}$ |
| 40-49 | $\begin{gathered} 23.7 \\ (20.8-26.8) \end{gathered}$ | $\begin{gathered} 22.5 \\ (19.6-25.5) \end{gathered}$ | $\begin{gathered} 51.0 \\ (47.5-54.6) \end{gathered}$ |
| 50-59 | $\begin{gathered} 18.4 \\ (15.7-21.3) \end{gathered}$ | $\begin{gathered} 18.7 \\ (16.1-21.6) \end{gathered}$ | $\begin{gathered} 59.6 \\ (56.1-63.1) \end{gathered}$ |
| 60-69 | $\begin{gathered} 16.8 \\ (14.1-19.7) \end{gathered}$ | $\begin{gathered} 17.9 \\ (15.1-20.9) \end{gathered}$ | $\begin{gathered} 59.9 \\ (56.2-65.4) \end{gathered}$ |
| $70^{+}$ | $\begin{gathered} 19.1 \\ (16.3-22.2) \end{gathered}$ | $\begin{gathered} \hline 19.1 \\ (16.3-22.2) \end{gathered}$ | $\begin{gathered} \hline 57.8 \\ (54.1-61.4) \end{gathered}$ |
| OVERALL | $\begin{gathered} 23.2 \\ (22.1-24.5) \end{gathered}$ | $\begin{gathered} 21.6 \\ (20.4-22.8) \end{gathered}$ | $\begin{gathered} 51.0 \\ (49.6-52.4) \end{gathered}$ |

