Appendix B

Supplementary table 1. Variables associated with seropositive status (including those who were vaccinated) (binary logistic regression)

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| Variables | Model 1  Adjusted1 OR(95% CI) | Model 2  Adjusted2OR  (95% CI) | Model 3  Adjusted3OR  (95% CI) |
| **Sex** |  |  |  |
| Female | Reference | Reference |  |
| Male | 1.0 (0.8; 1.2) | 1.2 (0.9; 1.7) | 1.2 (0.9; 1.6) |
| **Age** |  |  |  |
| 40-54 years | 0.5 (0.4; 0.8) | 0.6 (0.4; 1.0) | 1.0 (0.7; 1.5) |
| 55-64 years | 0.5 (0.4; 0.7) | 0.5 (0.4; 0.8) | 0.9 (0.6; 1.2) |
| 65-74 years | Reference | Reference | Reference |
| **Marital status** |  |  |  |
| Single | Reference | Reference | Reference |
| Married | 1.2 (0.9; 1.7) | 1.2 (0.9; 1.7) | 1.2 (0.8; 1.6) |
| **Number of persons in household** | 1.1 (1.0; 1.3) | 1.2 (1.0; 1.4) | 1.2 (1.0; 1.5) |
| **Living with children** |  |  |  |
| No | Reference | Reference | Reference |
| Yes | 1.0 (0.7; 1.5) | 1.0 (0.7; 1.5) | 1.0 (0.7; 1.6) |
| **Education** |  |  |  |
| Higher | Reference | Reference | Reference |
| Specialized secondary | 1.0 (0.7; 1.6) | 1.3 (1.0; 1.6) | 1.4 (1.0; 1.8) |
| Secondary or lower | 1.2 (0.9; 1.5) | 1.1 (0.7; 1.7) | 1.2 (0.7; 2.0) |
| **Occupation** |  |  |  |
| Retired or unemployed | Reference | Reference | Reference |
| Regular employment | 1.8 (1.3; 2.4) | 1.8 (1.4; 2.5) | 2.0 (1.5; 2.7) |
| **Income** |  |  |  |
| High | Reference | Reference | Reference |
| Middle | 0.9 (0.9; 1.4) | 1.0 (0.7; 1.4) | 0.9 (0.7; 1.4) |
| Low | 1.0 (0.6; 1.5) | 1.0 (0.6; 1.7) | 1.0 (0.6; 1.7) |
| **Adherence to NPI1** | - | 1.0 (0.9; 1.1) | 1.0 (0.9; 1.1) |
| **Smoking** |  |  |  |
| Never smoker | - | Reference | Reference |
| Former smoker | - | 0.9 (0.7; 1.2) | 0.8 (0.6; 1.1) |
| Current smoker | - | 0.5 (0.3; 0.6) | 0.4 (0.3; 0.5) |
| **Frequency of heavy drinking** |  |  |  |
| Never | - | Reference | Reference |
| Once a week or less often | - | 0.9 (0.7; 1.2) | 0.9 (0.7; 1.3) |
| Twice a week or more often | - | 0.5 (0.2; 1.0) | 0.6 (0.3; 1.1) |
| **Chronic health conditions** |  |  |  |
| No | - | Reference | Reference |
| Yes | - | 1.2 (0.9; 1.5) | 1.2 (0.9; 1.5) |
| **Vaccinated against COVID-191** |  |  |  |
| No | - | - | Reference |
| Yes | - | - | 10.5 (6.4; 17.5) |

CI, confidence interval; COVID-19, coronavirus disease 2019; NPI, non-pharmaceutical interventions; OR, odds ratio

1adjusted for all sociodemographic factors in the model 1

2adjusted for the model 1, behavioral factors (adherence to preventive measures, smoking, heavy alcohol drinking) and chronic health conditions (model 2)

3adjusted for the model 2 and vaccination (model 3)