**SUPPLEMENTARY MATERIALS**

*Title:* Testing behaviour and positivity for SARS-CoV-2 infection: Insights from web-based participatory surveillance

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**Fig. S1**. Heatmap showing positive predictive value (PPV) per symptom, among subpopulations corresponding to each of the six identified lower test propensity/higher positivity participant factors.



**Fig. S2**. Results of sensitivity analysis restricting to the approximate working age population (20-64 years). Adjusted ORs for test propensity and positivity, for the same participant factors, are shown (analysis period 17 November 2020 to 18 April 2021; *n*=41,017 surveys). Light blue crosses indicate the 95% CIs in each dimension. The shaded quadrant indicates the combination of interest: lower test propensity and higher positivity. *Lung condition* not shown (very low and uncertain OR (0.09, 95% CI: 0–38.9) for positivity).

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**Table S1**. Distribution of sex, age-group and education level, comparing Infectieradar participants (*n*=16,807) to the general population. Data for the year 2020 were obtained from Statistics Netherlands [1,2].

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| ***Variable* Group** | **Study population (%)** | **Netherlands population (%)** |
| *Age-group* <20 years 20-29 30-39 40-49 50-64 65+*Sex* Male Female*Education level (15+ years old)* None/primary Middle Higher | 2.37.013.118.438.221.042.857.22.336.361.4 | 21.712.812.312.721.019.549.750.330.936.732.4 |

1. Statistics Netherlands. Population; sex, age and martial status. <https://opendata.cbs.nl/statline/#/CBS/en/dataset/7461eng/table?ts=1615898674521>. Accessed 15 March 2021.

2. Statistics Netherlands. Bevolking; onderwijsniveau; geslacht, leeftijd en migratieachtergrond. <https://opendata.cbs.nl/statline/#/CBS/nl/dataset/82275NED/table?ts=1615899135543>. Accessed 15 March 2021.