

## Supplementary material to:

The rising of old foes – impact of lockdown periods on “non-SARS-CoV-2” viral respiratory and gastrointestinal infections

### Age stratified analysis of negative virus test results

The share of positive results of all tests performed was not significantly different in 2017-2020 (11-15% positive results). In 2021, the proportion of positive results was significantly lower at 5%. However, comparing the distribution of negative test results between different age groups, we saw significant differences: while in the age group of 0 - < 3 years the proportion of negative results was stable at 58 - 63% from 2017-2019, it was significantly lower in 2020 with 41% and in 2021 with only 35%, respectively (p-value: <0.0001). In contrast, the proportion of negative results was doubled in the age group from 9 - 12 years (2017-2019: 4-5% versus 2020: 9% and 2021: 10%), and > 12 years (2017-2019: 9-11% versus 2020: 20% and 2021: 24%), as from 2020 onwards, a large number of multiplex PCR tests were performed to rule out SARS-Cov-2 infections rather than because of suspected infection in children older than 6 years. In the age group of 4-6 year-olds, however, no significant difference was observed (Table S1)

Table S1:

| Age/ Years                    | 2017        | 2018        | 2019        | 2020        | 2017-2019 vs<br>2020 | 2021         | 2017-2019 vs<br>2021 | 2020 vs 2021 | Total        |
|-------------------------------|-------------|-------------|-------------|-------------|----------------------|--------------|----------------------|--------------|--------------|
|                               | N/ %        | N/%         | N/%         | N/%         | P-Value              | N/%          | P-Value              | P-Value      | N/%          |
| 0-3 Years                     | 2514/ .63   | 2157/ .58   | 1907/ .58   | 2010/ .41   | < 0.00001            | 4736/ .35    | < 0.00001            | < 0.00001    | 13324/ .45   |
| 4-6 Years                     | 650/ .16    | 618/ .17    | 623/ .19    | 928/ .19    | .062658              | 2541/ .19    | .026692              | .951888      | 5360/ .18    |
| 7-9 Years                     | 329/ .08    | 320/ .09    | 278/ .08    | 557/ .11    | .000016              | 1595/ .12    | < 0.00001            | .31091       | 3079/ .12    |
| 9-12 Years                    | 140/ .04    | 191/ .05    | 159/ .05    | 458/ .09    | < 0.00001            | 1430/ .10    | < 0.00001            | .008698      | 2378/ .08    |
| > 12 Years                    | 363/ .09    | 418/ .11    | 311/ .10    | 988/ .20    | < 0.00001            | 3199/ .24    | < 0.00001            | < 0.00001    | 5279/ .18    |
| <b>Total Negative Results</b> | <b>3996</b> | <b>3704</b> | <b>3278</b> | <b>4941</b> |                      | <b>13501</b> |                      |              | <b>29420</b> |

Table S1: Negative test results from January 2017 – October 2021. For Comparison age related proportion of negative results 2020 and 2021 compared to 2017-2019, p-values were calculated using the Chi square test. (p < .05). P\*compares 2021 to 2017-2019, P# compares 2021 to 2020