

## Supplemental Information

**SUPPLEMENTAL TABLE 4** Quasi-Poisson Regression of Predicted Secondary Cases and Relative Rate of Secondary Transmission by Masking Policy: Sensitivity Analysis Removing all Districts With >20 000 Students

| Masking Policy       | Districts, <i>n</i> (%) | Students and Staff, <i>n</i> | Total Primary Infections, <i>n</i> | Total Secondary Infections, <i>n</i> | Predicted Secondary Cases per 100 Primary Cases |           | Relative Rate of Secondary Transmission |           |
|----------------------|-------------------------|------------------------------|------------------------------------|--------------------------------------|---|-----------|---|-----------|
|                      |                         |                              |                                    |                                      | 95% CI  | 95% CI    |   |           |
| Universal            | 35                      | 174 881                      | 7206                               | 497                                  | 6.9   | 5.3–9.0   | —                                       | —         |
| Partial <sup>a</sup> | 9                       | 38 261                       | 2106                               | 231                                  | 11.0  | 7.4–16.4  | 1.6                                     | 0.99–2.56 |
| Optional             | 6                       | 4576                         | 295                                | 78                                   | 26.4  | 13.5–52.0 | 3.8                                     | 1.85–7.93 |

CI, confidence interval; —, reference group for regression analysis.

<sup>a</sup> Partial masking districts included: 4 districts that initially had optional masking and transitioned to masks required, 2 districts that transitioned between mask optional and required more than once during the study period, and 3 districts that had required and optional masking varying by either school grade level, or by community transmission threshold.

**SUPPLEMENTAL TABLE 5** Quasi-Poisson Regression of Predicted Secondary Cases and Relative Rate of Secondary Transmission by Masking Policy: Sensitivity Analysis Removing all Districts With >10,000 Students

| Masking Policy       | Districts, <i>n</i> (%) | Students and Staff, <i>n</i> | Total Primary Infections, <i>n</i> | Total Secondary Infections, <i>n</i> | Predicted Secondary Cases per 100 Primary Cases |           | Relative Rate of Secondary Transmission |          |
|----------------------|-------------------------|------------------------------|------------------------------------|--------------------------------------|---|-----------|---|----------|
|                      |                         |                              |                                    |                                      | 95% CI  | 95% CI    |   |          |
| Universal            | 31                      | 116 425                      | 3995                               | 234                                  | 5.9   | 3.9–8.9   | —                                       | —        |
| Partial <sup>a</sup> | 9                       | 38 261                       | 2106                               | 231                                  | 11.0  | 7.2–16.6  | 1.9                                     | 1.0–3.4  |
| Optional             | 6                       | 4576                         | 295                                | 78                                   | 26.4  | 12.9–54.1 | 4.5                                     | 2.0–10.3 |

CI, confidence interval; —, reference group for regression analysis.

<sup>a</sup> Partial masking districts included: 4 districts that initially had optional masking and transitioned to masks required, 2 districts that transitioned between mask optional and required more than once during the study period, and 3 districts that had required and optional masking varying by either school grade level, or by community transmission threshold.