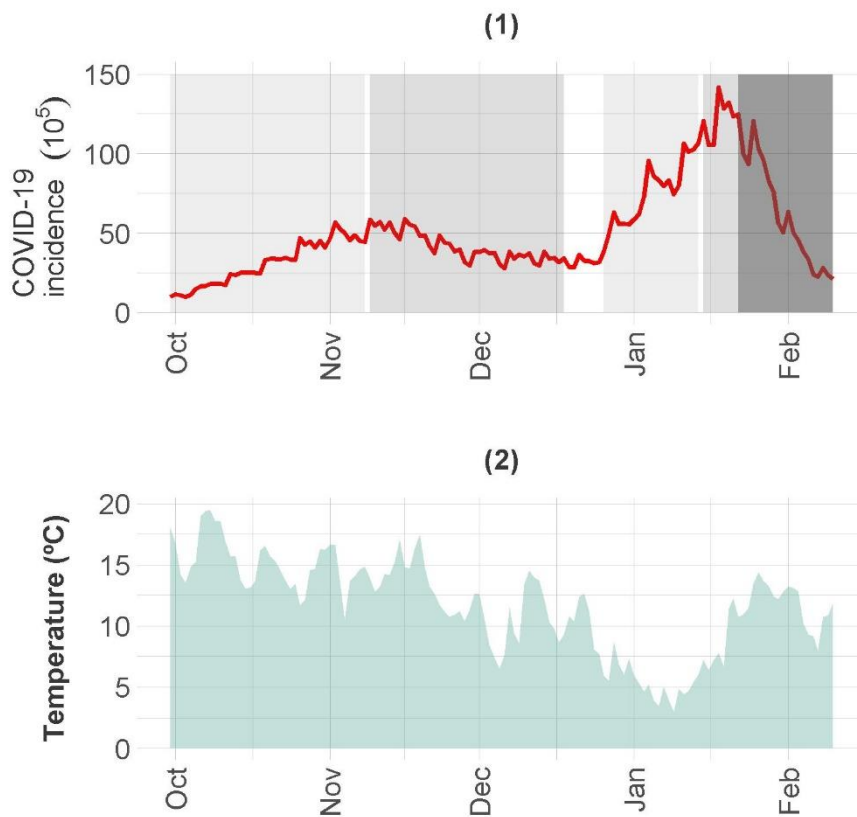


## SUPPLEMENTARY MATERIAL

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Figure S1. (1) COVID-19 incidence rates<sup>a</sup> before and after tiered non-pharmaceutical interventions and lockdown, Portugal, 30 September 2020–10 February 2021 (2) Average daily temperatures, Portugal, 30 September 2020–10 February 2021



COVID-19: coronavirus disease; NPI: non-pharmaceutical interventions.

<sup>a</sup> Per 100,000 population.

The lighter shaded grey areas represent the analysis periods before tiered non-pharmaceutical interventions and lockdown. The medium and darker shaded grey areas represent the analysis periods after the implementation of tiered non-pharmaceutical interventions and lockdown.

**Table S1. Sensitivity analyses with varying time lag for daily trends in COVID-19 incidence rate before and after implementation of tiered non-pharmaceutical interventions, Portugal, 30 September–18 December 2020 (n= 297,754)**

| Lag | Study period                         |             |                                  |             | Change in trend | 95% CI      | p value <sup>a</sup> |
|-----|--------------------------------------|-------------|----------------------------------|-------------|-----------------|-------------|----------------------|
|     | Pre-tiered NPIs<br>30 Sep–8 Nov 2020 |             | Tiered NPIs<br>9 Nov–18 Dec 2020 |             |                 |             |                      |
|     | IRR                                  | 95% CI      | IRR                              | 95% CI      |                 |             |                      |
| 2   | 1.035                                | 1.032-1.037 | 0.982                            | 0.975-0.990 | 0.949           | 0.945-0.954 | <0.001               |
| 3   | 1.032                                | 1.029-1.035 | 0.982                            | 0.974-0.989 | 0.951           | 0.947-0.956 | <0.001               |
| 4   | 1.030                                | 1.027-1.033 | 0.981                            | 0.974-0.989 | 0.953           | 0.948-0.958 | <0.001               |
| 5   | 1.028                                | 1.025-1.031 | 0.981                            | 0.973-0.989 | 0.954           | 0.949-0.959 | <0.001               |
| 6   | 1.026                                | 1.023-1.029 | 0.981                            | 0.972-0.989 | 0.955           | 0.950-0.961 | <0.001               |
| 7   | 1.024                                | 1.021-1.027 | 0.980                            | 0.972-0.989 | 0.957           | 0.951-0.963 | <0.001               |
| 8   | 1.022                                | 1.019-1.025 | 0.980                            | 0.971-0.989 | 0.959           | 0.953-0.964 | <0.001               |
| 9   | 1.020                                | 1.017-1.023 | 0.980                            | 0.971-0.989 | 0.961           | 0.955-0.967 | <0.001               |
| 10  | 1.017                                | 1.014-1.020 | 0.980                            | 0.971-0.989 | 0.963           | 0.957-0.969 | <0.001               |
| 11  | 1.016                                | 1.012-1.019 | 0.980                            | 0.971-0.989 | 0.965           | 0.959-0.971 | <0.001               |
| 12  | 1.014                                | 1.010-1.017 | 0.980                            | 0.970-0.990 | 0.967           | 0.960-0.974 | <0.001               |

COVID-19: coronavirus disease; CI: confidence interval; IRR: incidence rate ratio; NPIs: non-pharmaceutical interventions.

<sup>a</sup> Two-sided Wald test p values were obtained from negative binomial regression models. A p value < 0.05 was considered evidence of statistical significance.

**Table S2. Sensitivity analyses with varying time lag for daily trends in COVID-19 incidence rate before and after lockdown implementation with and without school closure, Portugal, 26 December 2020–10 February 2021 (n = 372,680)**

| Lag | Study period   |             |  |             |   |             | Change in trend        |             |                      |                     |             |                      |
|-----|--|-------------|--|-------------|---|-------------|------------------------|-------------|----------------------|---------------------|-------------|----------------------|
|     | Pre-lockdown<br>26 December 2020–<br>14 January 2021 |             | Lockdown without<br>school closure<br>15–21 January 2021 |             | Lockdown with school<br>closure<br>22 January–10 February<br>2021 |             | Without school closure |             |                      | With school closure |             |                      |
|     | IRR  | 95% CI      | IRR  | 95% CI      | IRR   | 95% CI      | Change in<br>IRR       | 95% CI      | p value <sup>a</sup> | Change in<br>IRR    | 95% CI      | p value <sup>a</sup> |
| 2   | 1.042  | 1.033-1.051 | 1.012  | 0.979-1.047 | 0.903   | 0.852-0.958 | 0.971                  | 0.948-0.996 | 0.023                | 0.892               | 0.870-0.915 | <0.001               |
| 3   | 1.042  | 1.033-1.051 | 0.996  | 0.963-1.030 | 0.901   | 0.849-0.956 | 0.956                  | 0.932-0.980 | <0.001               | 0.904               | 0.881-0.928 | <0.001               |
| 4   | 1.041  | 1.032-1.049 | 0.981  | 0.950-1.013 | 0.899   | 0.848-0.952 | 0.942                  | 0.920-0.965 | <0.001               | 0.916               | 0.893-0.940 | <0.001               |
| 5   | 1.038  | 1.029-1.046 | 0.966  | 0.935-0.998 | 0.897   | 0.846-0.951 | 0.931                  | 0.909-0.954 | <0.001               | 0.928               | 0.904-0.953 | <0.001               |
| 6   | 1.034  | 1.026-1.043 | 0.952  | 0.921-0.983 | 0.896   | 0.843-0.951 | 0.920                  | 0.898-0.943 | <0.001               | 0.941               | 0.916-0.967 | <0.001               |
| 7   | 1.031  | 1.022-1.039 | 0.938  | 0.907-0.969 | 0.895   | 0.841-0.953 | 0.910                  | 0.887-0.933 | <0.001               | 0.955               | 0.927-0.983 | 0.002                |
| 8   | 1.028  | 1.019-1.036 | 0.922  | 0.891-0.955 | 0.896   | 0.838-0.957 | 0.898                  | 0.874-0.922 | <0.001               | 0.971               | 0.941-1.002 | 0.068                |
| 9   | 1.028  | 1.019-1.037 | 0.905  | 0.874-0.938 | 0.898   | 0.838-0.962 | 0.881                  | 0.857-0.904 | <0.001               | 0.992               | 0.959-1.026 | 0.637                |
| 10  | 1.025  | 1.016-1.034 | 0.892  | 0.859-0.925 | 0.899   | 0.835-0.969 | 0.870                  | 0.846-0.895 | <0.001               | 1.008               | 0.971-1.047 | 0.668                |
| 11  | 1.019  | 1.010-1.028 | 0.883  | 0.851-0.917 | 0.899   | 0.832-0.972 | 0.866                  | 0.842-0.891 | <0.001               | 1.018               | 0.978-1.060 | 0.379                |
| 12  | 1.012  | 1.003-1.021 | 0.874  | 0.840-0.909 | 0.902   | 0.828-0.982 | 0.864                  | 0.838-0.890 | <0.001               | 1.032               | 0.986-1.081 | 0.176                |

COVID-19: coronavirus disease; CI: confidence interval; IRR: incidence rate ratio.

<sup>a</sup> Two-sided Wald test p values were obtained from negative binomial regression models. A p value < 0.05 was considered evidence of statistical significance.