**Table S4:**

**Fitting multidimensional surfaces to simulated data of the agent-based model.**

Here, the root means square errors (RMSD) are calculated to find the best mathematical expression to the simulated estimates of wild-type COVID-19 reproduction number (R0WT). The equations have four parameters: Decrease in working hours DW, social distancing measure (SDM), stay-at-home restriction (SH), and vaccination ratio (Vac). The row shaded by grey demonstrates the best mathematical expression for simulated data.

|  |  |  |
| --- | --- | --- |
|  | **Equation** | **RMSD** |
| A |  | 0.0303 |
| B |  | 0.0248 |
| C |  | 0.0293 |
| D |  | 0.0302 |
| E |  | 0.0303 |
| F |  | 0.0139 |
| G |  | 0.0196 |
| H |  | 0.0224 |
| J |  | 0.0300 |
| K |  | 0.0131 |
| L |  | 0.0130 |
| M |  | 0.0060 |
| N |  | 0.0130 |

**Table S4:**

**Fitting multidimensional surfaces to simulated data of the agent-based model (Continue).**

Here, the root means square errors (RMSD) are calculated to find the best mathematical expression to the simulated estimates of wild-type COVID-19 reproduction number (R0WT). The equations have four parameters: Decrease in working hours DW, social distancing measure (SDM), stay-at-home restriction (SH), and vaccination ratio (Vac). The row shaded by grey demonstrates the best mathematical expression for simulated data.

|  |  |  |
| --- | --- | --- |
| O |  | 0.0139 |
| P |  | 0.0139 |
| R |  | 0.0246 |
| S |  | 0.0057 |