S1 Table. Notation and formulae for parameters used in the "Community-Workplace" model.

Model Concept	Notation
Length of modeling simulation (days)	L
Time (timepoint of the simulation)	t
"Workplace" population size (i.e., number of employees)	N _w
"Community" population size (i.e., number of non-employees)	N _c
Initial disease prevalence in the community (at the beginning of the simulation)	prv _{Ci}
Initial disease prevalence in the workplace (at the beginning of the simulation)	prv _{wi}
Proportion of time employees spend at work (interacting only among themselves)	р
Proportion of cases that develop symptoms (vs. being "asymptomatic")	q
Proportion of non-cases that report symptoms each work-day	g
Average days it takes to develop infectiousness after infection-causing exposure to virus	$\Delta_{infectious}$
Rate of development of infectiousness (= 1/ $\Delta_{infectious}$)	θ
Average days of being infectious. Equivalent to the average days taken to recover from onset of infectiousness.	$\Delta_{recover}$
Rate of recovery from onset of infectiousness (= 1/ $\Delta_{recover}$)	¥٦
Average days taken to develop symptoms after becoming infectious (for non-"asymptomatic"s)	$\Delta_{symptoms}$
Rate of symptom development for infected individuals who become symptomatic (= $1 / \Delta_{symptoms}$)	λ
Rate of recovery from onset of symptoms (= 1/ ($\Delta_{recover} - \Delta_{symptoms}$))	¥۲
Rate of recovery from moving into asymptomatic compartment (= 1 / ($\Delta_{recover}$ - $\Delta_{symptoms}$))	¥A
Days required in isolation if tested positive	$\Delta_{isolation}$
Rate of movement back to work after being detected (= $1/\Delta_{isolation}$)	۷ _D
Average days of immunity after recovering	Δ _{immunity}
Rate of loss of immunity (= 1 / $\Delta_{immunity}$)	a
Basic virus reproduction number (i.e., the mean number of people in a fully susceptible population that are infected with SARS-CoV-2 by a single infected person) in the workplace	RO _w
Basic virus reproduction number (i.e., the mean number of people in a fully susceptible population that are infected with SARS-CoV-2 by a single infected person) in the community	RO _C
Transmission rate in the workplace (= $RO_w * \gamma_r$)	β _w
Transmission rate in the community (= $RO_{c} * \gamma_{r}$)	β _c
Proportion of the asymptomatic workforce population tested each day	τ _A

Proportion of the symptomatic workforce population tested each day	τ _Y
Test sensitivity (probability of an infected individual's test being positive)	sens
Average number of tests required to return to work after infection (i.e., "testing out of isolation")	h