Parameter	Description	Value
n_E	No. of latent sub-states (Erlang states)	16
n_P	No. of prodromal sub-states (Erlang states)	16
n_I	No. of fully infectious sub-states (Erlang states)	16
n_L	No. of late infectious sub-states (Erlang states)	16
D_E	Average duration of latent period	$3.7 \mathrm{~days}$
D_P	Average duration of prodromal period	1 day
D_I	Average duration of fully infectious period	$5 \mathrm{day}$
D_L	Average duration of late infectious period	5 days
ε	Transition rate of latent sub-states	$n_{ m E}/D_{I\!$
φ	Transition rate of prodromal sub-states	$n_{ m P}/D_{ m I}$
γ	Transition rate of fully infectious sub-states	n_{I}/D
δ	Transition rate of late infectious sub-states	n_L/D_L
α	Average waiting time for the outcome of the vaccine	1/28, 1/42
ν	Rate at which individuals get vaccinated	0, 1/180, 1/240, 1/300

S2 Table. Parameters describing disease progression for Germany (GER) and the USA.

Parameters describing disease progression and their values used in the simulations. Abbreviations: No. ... Number.