


**Table S1. Model parameters**

Parameter	Description	Value	Distribution	Reference
$1/\delta_E + 1/\delta_P$	Duration of incubation period in days	5.2 (95% CI: 4.1-7.0)	Lognormal	[1]
$1/\delta_E$	Duration of latency in days	$1/\delta_E + 1/\delta_P - 1/\delta_P$		[2]
$1/\delta_P$	Duration of preclinical infectiousness in days	2.3 (95% CI: 0.8-3.0)	Gompertz	[2]
$1/\gamma_A = 1/\gamma_I$	Duration of clinical ( $1/\gamma_I$ ) and subclinical ( $1/\gamma_A$ ) infectiousness in days	7		[2, 3]
$1/\eta$	Delay from symptoms onset to hospitalization in days	7 (IQR: 4-8)	Gamma	[4]
$1/\alpha$	Delay from symptoms onset to ICU (here death) in days	10 (IQR: 6-12)	Gamma	[4]
$1/\gamma_H$	Delay from hospitalization to recovery in days	10 (IQR: 7-14)	Gamma	[4]
$f$	Fraction of infected people who develop symptoms	0.84 (95% CI: 0.8-0.88)	Binomial	[5]
$h_i$	Fraction of symptomatic people requiring hospitalization but not ICU	Age- and comorbidity-dependent		[6, 7]
$g_i$	Fraction of symptomatic people requiring ICU	Age- and comorbidity-dependent		[6, 7]

## References

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