Table 1. Parameters used

Model parameters	Symbol	Value	Function	Source
SEIR-epidemics				
Probability of infection	β		Network effect	
Days incubation time	λ_{E}	1	Fixed	
Days spent pre-symptomatic	λ_{Ips}	5	Poisson	FHI model, adjusted for reduced incubation time
Days symptomatic before recovery	λ_{IsR}	5	Poisson	FHI model
Days symptomatic before hospitalization	λ_{ISH}	6	Poisson	Data from HSØ
Days symptomatic in nursing home before death	λ_{ND}	10	Poisson	Data from HSØ
Days in hospital before recovery (no ICU)	λ _{HR}	8	Poisson	Data from HSØ
Days in hospital before ICU	λ _{HI}	4	Poisson	Data from HSØ
Days in ICU before recovery	λ _{IR}	12	Poisson	Data from HSØ
, ,	λ _{ID}	12	Poisson	Data from HSØ
Days in ICU before death				
Days asymptomatic before recovery	λ _{IaR}	8	Poisson	FHI model adjusted for reduced incubation time
% exposed developing symptoms	Pı	50	Bernoulli	
% symptomatic dying outside of hospital	P _{ND}		Bernoulli	
nursing home residents 70-79 years		26		Adjusted to Norwegian hosp. death rates, Verity et al
nursing home residents 80-89 years		42		Adjusted to Norwegian hosp. death rates, Verity et al
All others		0		
% hospitalized dying	P _{HD}		Bernoulli	Verity et al, Lancet, 2020
0-9 years		1.61 e-3		
10-19 years		6.95 e-3		
20-29 years		3.09 e-2		
30-39 years		8.44 e-2		
40-49 years		0.161		
50-59 years		0.595		
60-69 years		1.93		
70-79 years		4.28		
80+ years		7.8		
% symptomatic being hospitalized	P _{IsH}		Bernoulli	Verity et al, Lancet, 2020
0-9 years		0		
10-19 years		0.048		
20-29 years		1.04		
30-39 years		3.43		
40-49 years		4.25		
50-59 years		8.16		
60-69 years		11.8		
70-79 years		16.6		
80+ years		18.4	Demesul	
% hospitalized needing ICU	P _{HI}	30	Bernoulli	Fitted to FHI ICU numbers
% not developing immunity	P _{RS}	0	Bernoulli	
ndividual-based network model				
Infectiousness in Day Care		0.015%	Bernoulli	estimated IBM fit to Norwegian clinical data
Infectiousness in Primary School		0.002%	Bernoulli	estimated IBM fit to Norwegian clinical data
Infectiousness Secondary School		0.015%	Bernoulli	estimated IBM fit to Norwegian clinical data
Infectiousness Secondary School		0.015%	Bernoulli	estimated IBM fit to Norwegian clinical data
Infectiousness Household		15%	Bernoulli	estimated IBM fit to Norwegian clinical data
Infectiousness Work		0.015%	Bernoulli	estimated IBM fit to Norwegian clinical data
Infectiousness Nursing Home		20.0%	Bernoulli	estimated IBM fit to Norwegian clinical data
Infectiousness Generic Contact		1.15%	Bernoulli	estimated IBM fit to Norwegian clinical data