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COVID-19 Scenarios Printable report

Generated from \$covid19-scenarios.org on Jan 14 2021, 07:13 PM

Important information

COVID-19 Scenarios is a tool that allows to explore the dynamics of a COVID-19 outbreak in a given community

and to assess the associated burden on the healthcare system. COVID-19 Scenarios, as every other model, it has parameters whose values are not known with certainty, which might differ between places and change with time. The values of some of these of these parameters have a major effect on the results. The results are particularly sensitive to parameters that determine how rapidly the disease spreads or how

effective counter-measures are: some values will result in a small limited outbreak, others in a massive outbreak

with many fatalities. Furthermore, when extrapolating the outbreak into the future, the results will critically

depend on assumptions of **future** policy and the degree to which infection control measures are adhered to. It is

therefore important to interpret the model output with care and to assess the plausibility of the parameter values and model assumptions. COVID-19 Scenarios uses an age-structured generalized SEIR model. For details, please consult the documentation on covid19-scenarios.org/about. Default parameter choices are informed by the available evidence at the time, but might need adjustment for a particular community or as more information on the

outbreak is available. This tool is not a medical predictor, and should be used for informational and research purposes only. Please carefully consider the parameters you choose. Interpret and use the simulated results responsibly. Authors are not liable for any direct or indirect consequences of this usage.

> BIOZENTRUM University of Basel The Center for







Parameter

Parameter

Scenario: United Kingdom of Great Britain and Northern

Value

Value

Reduction of transmission

0% - 23%

0% - 20%

12k - 13k

50k - 59k

2 - 3

42 - 50

Parameters

Population

Ireland (edited)

Age distribution for ¹	United Kingdom of Great Britain and Northern
	Ireland
Case counts for ²	United Kingdom of Great Britain and Northern
	Ireland
Number of hospital beds ³	139647
Number of available ICU beds ⁴	4114
Cases imported into community per day	0
Number of cases at the start of the simulation	10000
Population size	66488991
Seroprevalence [%]	15.16
Epidemiology	

Average time in regular ward [days]

Average time in regular ward [days]	11
Average time in ICU ward [days]	7
Infectious period [days]	3.5
Latency [days] ⁵	3.5
Increase in death rate when ICUs are	2
overcrowded	
Seasonal peak in transmissibility	January
R0 at the beginning of the outbreak	2.9 - 3.5
Seasonal variation in transmissibility	0
Mitigation	

To

Aug 01 2020

Aug 01 2020

End of Public Events

Results

₹ 1.5

Feb 08 2020

Feb 15 2020

158 - 179

1k

4 - 5

51 - 62

0

0

school closure

Intervention name

Self Isolation	Mar 01 2020	Aug 01 2020	2% - 20%
Social distancing	Mar 01 2020	Aug 01 2020	0% - 24%
Hard Lockdown	Mar 01 2020	Apr 01 2020	75% - 85%
'	rmed case and death lable. The default valu	counts. ues are rough estimat	es indicating total capacity. Number of
beds available for COVID-19 tre	atment is likely much	n lower.	

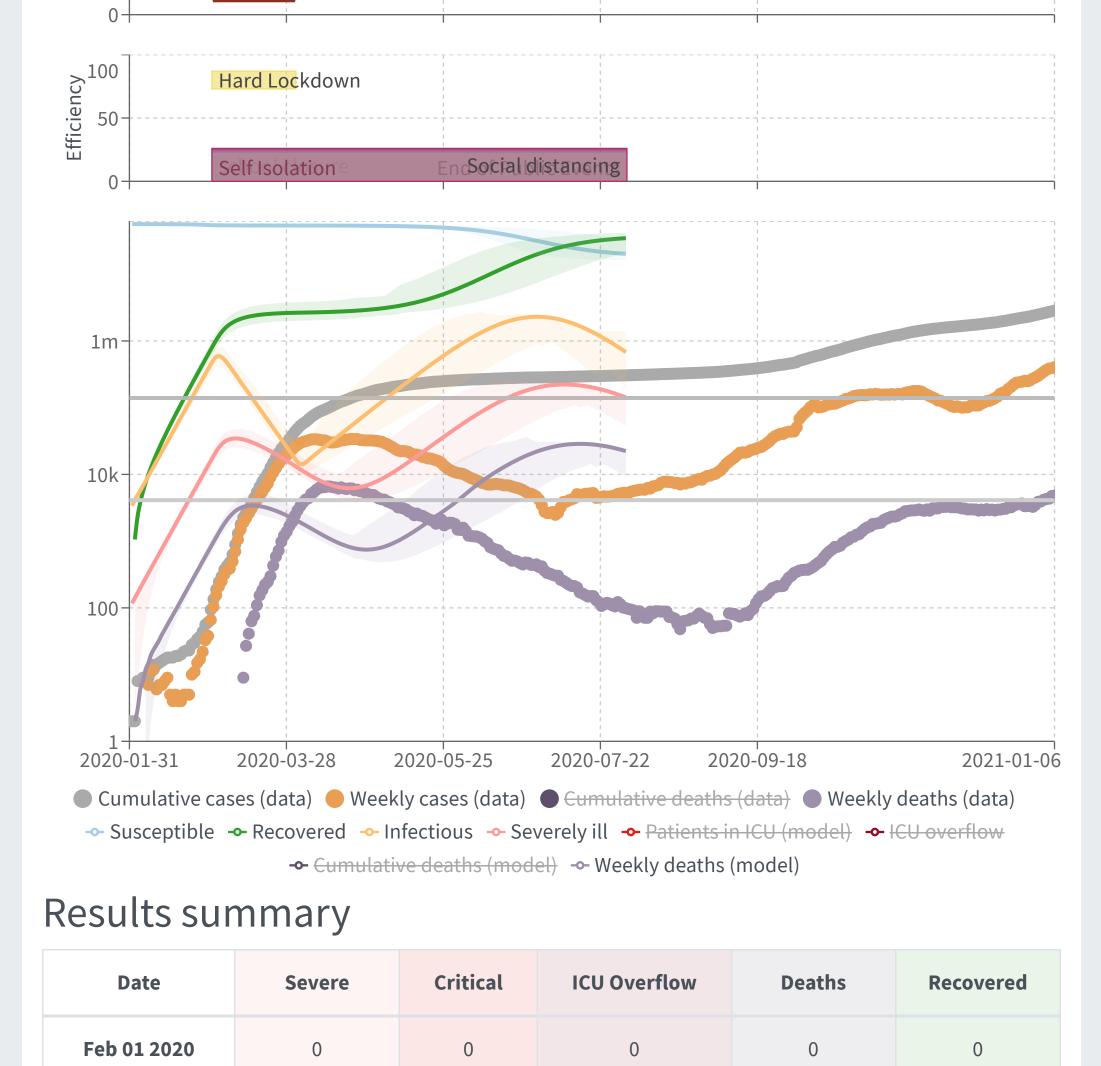
⁴Number of available beds in Intensive Care Units (ICUs). The default values are rough estimates indicating total

⁵Time from infection to onset of symptoms (here onset of infectiousness)

From

Mar 01 2020

Mar 01 2020

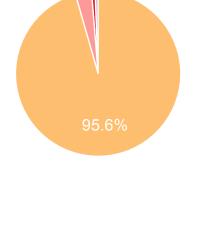


Feb 22 2020 Feb 29 2020	3k - 5k	212 - 287	0	210 - 277	161k - 222k
Feb 29 2020					
	10k - 17k	1k	0	1k	493k - 1m
Mar 07 2020	24k - 44k	2k - 3k	0	2k - 4k	1m - 2m
Mar 14 2020	24k - 46k	3k - 4k	0 - 1k	5k - 9k	2m - 3m
Mar 21 2020	19k - 36k	3k - 4k	0 - 1k	7k - 14k	2m - 4m
Mar 28 2020	13k - 26k	2k - 4k	0 - 368	9k - 18k	2m - 4m
Apr 04 2020	9k - 18k	2k - 4k	0	10k - 20k	2m - 4m
Apr 11 2020	6k - 12k	1k - 3k	0	11k - 22k	2m - 4m
Apr 18 2020	4k - 11k	1k - 2k	0	12k - 24k	2m - 4m
Apr 25 2020	4k - 17k	1k - 2k	0	13k - 25k	2m - 4m
May 02 2020	4k - 27k	1k - 3k	0	14k - 28k	2m - 5m
May 09 2020	5k - 43k	1k - 4k	0 - 148	15k - 29k	2m - 7m
May 16 2020	7k - 69k	1k - 4k	0 - 2k	15k - 36k	3m - 9m
May 23 2020	10k - 108k	1k - 4k	0 - 5k	17k - 49k	3m - 11m
May 30 2020	14k - 156k	1k - 4k	0 - 10k	18k - 65k	3m - 15m
Jun 06 2020	20k - 205k	2k - 4k	0 - 15k	20k - 86k	4m - 20m
Jun 13 2020	28k - 239k	3k - 4k	0 - 19k	22k - 113k	4m - 25m
Jun 20 2020	41k - 271k	4k	92 - 22k	25k - 145k	5m - 30m
Jun 27 2020	59k - 234k	4k	2k - 23k	31k - 176k	7m - 33m
Jul 04 2020	81k - 240k	4k	4k - 21k	38k - 205k	9m - 36m
Jul 11 2020	104k - 230k	4k	6k - 21k	49k - 228k	11m - 38m
Jul 18 2020	109k - 199k	4k	8k - 20k	63k - 247k	14m - 40m
Jul 25 2020	78k - 157k	4k	8k - 16k	81k - 260k	18m - 41m
Aug 01 2020	54k - 152k	4k	5k - 13k	101k - 276k	21m - 42m

Proportions

55k-

0-9





Mild 95.56%

Severe 3.15% Critical 0.69%

60-69

70-79

20.<mark>3</mark>5k

50-59

11.29k 1.38k0.98

40-49

■ peak severe ■ peak critical ■ peak overflow ■ total deaths ■ % of population

30-39

Totals/Peak

Quantity

Total severe: (0.66m, **1.1m**, 1.32m) Peak severe: (110.3k, **222.67k**, 278.71k)

Peak/total value

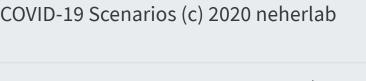
Total death: (101.29k, **208.85k**, 276.34k)

Peak critical: (12.57k, **23.76k**, 29.56k)





version 1.11.8(build: 2543, env: release)





10-19

20-29

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capacity. Number of ICU/ICMUs available for COVID-19 treatment is likely much lower.