

COVID-19 - Current Estimate of Cases - Scotland - OFFICIAL SENSITIVE

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This document will be updated regularly. Contact X with any issues or questions.

The table below provides estimates of the number of concurrent cases of infection, symptomatic infection, death, and demand for hospitalisation. For the estimates with social interventions, the number of cases would increase rapidly after the social interventions are lifted.

The weeks given are indicators only - we do not know which week we are in in Scotland, and different areas of Scotland are at different stages.

The estimates are based on a **reasonable worst case scenario** (RWCS).

Ventilation includes tight-fitting oxygen masks (non-invasive ventilation) and intubation (in intensive care, ICU). On top of the cases requiring hospitalisation, there are cases requiring ventilation.

All cases requiring hospitalisation are likely to require oxygen at least.

Assumptions (mainly from Scientific Advisory Group for Emergencies (SAGE) and Imperial College epidemiological modelling)

Numbers requiring oxygen or ventilation are based on viral pneumonia pathways.

The shape of the outbreak curve is based on Imperial College epidemiological modelling.

From SAGE, we assume that without interventions, a maximum of 80% of the population will be infected at some point in the outbreak.

From Imperial College modelling, we assume that around 30% of hospitalised cases will require invasive ventilation (exact rate depends on the timing of the outbreak).

From SAGE, we assume that around half of cases requiring invasive ventilation end in death.

Includes adjustments for SIMD and care homes.

Social interventions applied: Home isolation, household quarantine, social distancing for whole population, stopping mass gatherings

MOBILIZATION

RWCS: Cases: No social interventions

RWCS: Cases with symptoms: No social interventions

RWCS: Total Hospitalisation: No social interventions

RWCS: Numbers requiring non-invasive ventilation: No social interventions

RWCS: Numbers in ICU on invasive ventilation: No social interventions

RWCS: Total numbers requiring ventilation: No social interventions

RWCS: Deaths: No social interventions

RWCS: Cases: With social interventions

RWCS: Cases with symptoms: With social interventions

RWCS: Total Hospitalisation: With social interventions

RWCS: Numbers requiring non-invasive ventilation: With social interventions

RWCS: Numbers in ICU on invasive ventilation: With social interventions

RWCS: Total numbers requiring ventilation: With social interventions

RWCS: Deaths: With social interventions

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