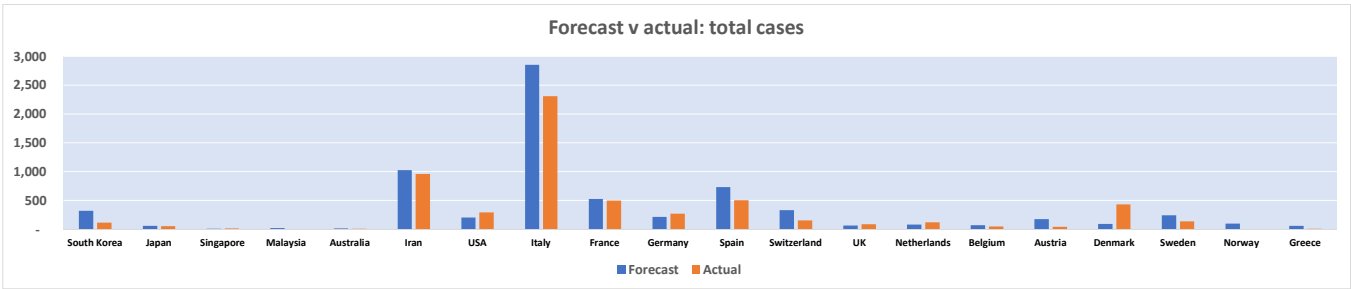


1. Daily update on case numbers

Our short run forecast model assumes that the reduction in transmission rates achieved in Western nations matches what has been achieved in Korea. Orange bars are actual figures for the day and blue bars are our forecast using prior data.

Key points

- 1 Clear progress in Italy in slowing transmission rates
- 2 Case numbers in France, Spain, USA etc consistent with a substantial outbreak
- 3 Alarming jump in case numbers in Denmark

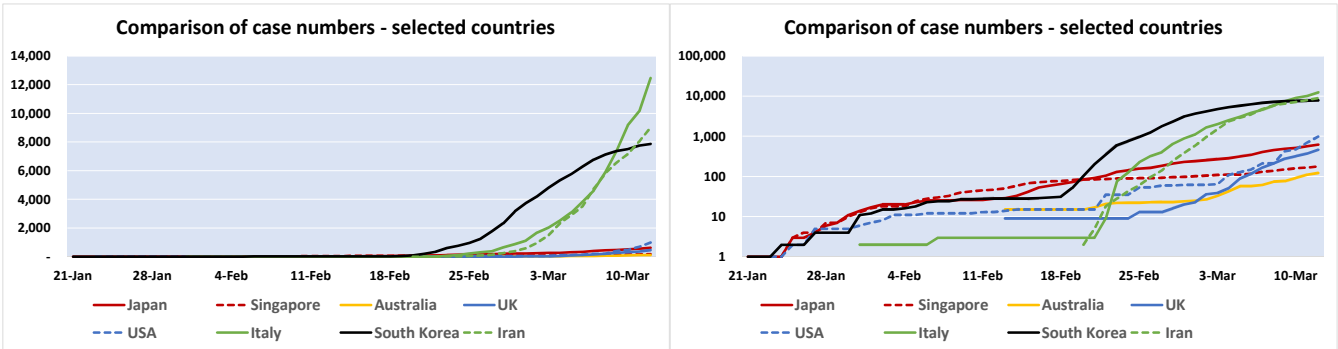


2. Global comparison of growth in case numbers

The figures below are historic data from WHO situation reports. The left hand chart uses a normal axis and the right hand chart shows identical figures on a log axis.

Key points

- 1 Italy and Iran showing slowing growth (left chart) but still higher than South Korea (steeper lines)
- 2 Growth in Japan remains slow but still exponential (straight line on right chart)
- 3 Trends in UK and USA in particular remain concerning

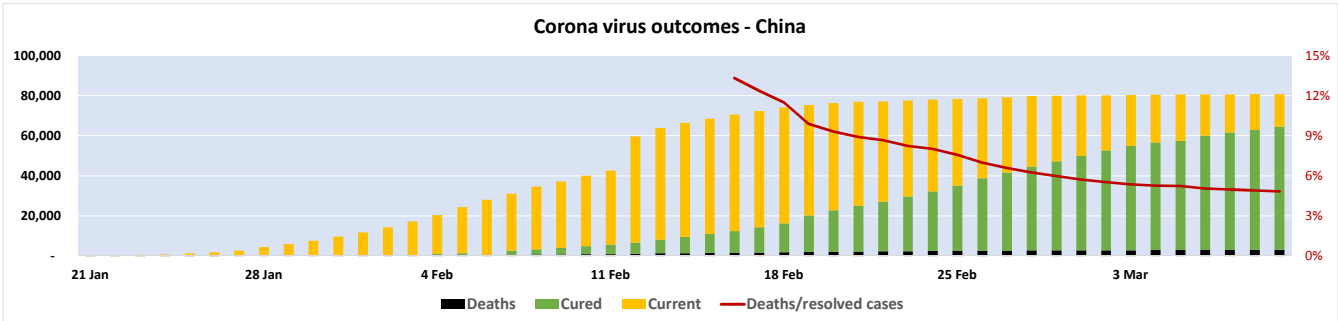


3. China

The figures below are historic figures from WHO (total cases and deaths) and China's CDC (for number of cured cases).

Key points

- 1 New case numbers remain very low
- 2 Significant majority of cases now cured
- 3 Mortality rate on resolved cases now around 4.8%



4. Comparison of early stages of outbreaks

The bars below show absolute case numbers, starting from the first day that the country reported approximately 200 cases. This allows comparison of the early stages of the outbreak against China (black line), South Korea (black dotted line) and Japan (grey line)

Key points

- 1 Italy (green bar) tracked South Korea quite closely
- 2 France, Germany and Spain followed a similar path but may now be doing a little better
- 3 Growth in many other European countries remains concerning - especially Denmark

