

**SPI-M-O**

# **Medium-Term Projections**

**9<sup>th</sup> February 2022**

# SPI-M-O Medium-Term Projections

- **These projections are not forecasts or predictions. They represent a scenario in which the trajectory of the epidemic continues to follow the trends that were seen in the data available to 7<sup>th</sup> February.** The delay between infection, developing symptoms, the need for hospital care, and death means they cannot fully reflect the impact of policy and behavioural changes made in the two to three weeks prior to 7<sup>th</sup> February. An assumed effect of schools opening and closing has been included.
- These projections do not include the potential effects of the BA.2 sub-lineage of Omicron. The delay between infection, developing symptoms, the need for hospital care, and death means **it is unlikely that BA.2 will significantly alter the trajectories of hospitalisations and deaths in the timescales covered by these projections.**
- **The projections do not include the effects of any future policy or behavioural changes, such as the recent announcements to ease restrictions in England, Scotland, Wales and Northern Ireland.**
- **The projections include the impact of vaccines given over the next four weeks.** It will take time for the continued rollout of doses to impact the epidemic, given lags between vaccination and protection, and between infection and hospital admission.
- Modelling groups have used their expert judgement and evidence from the [UK Health Security Agency](#) and other published efficacy studies when making assumptions about vaccine effectiveness. The annex containing each group's assumptions has been removed from these slides as this is currently under review. A new version of the annex will be included in next week's slides.
- Not all modelling groups produce projections for both hospitalisations and deaths, so there will be some differences between the models included in the combined projections for each metric.

## Metrics:

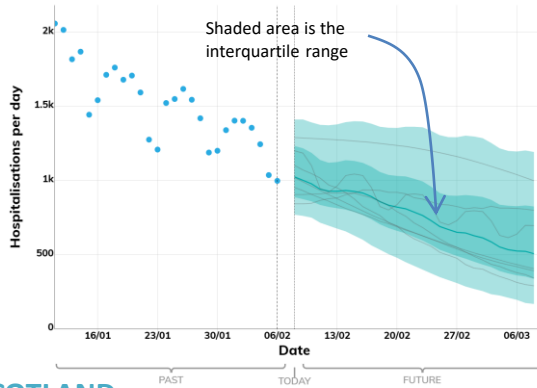
- **New hospitalisations per day:** Number of individuals admitted with COVID-19 and inpatients newly diagnosed with COVID-19. Data definitions differ slightly across all four nations.
- **New deaths per day (by date of death):** The number of COVID-19 deaths within 28 days of being identified as a COVID-19 case. Data definitions differ slightly across all four nations.

# Modelled projections based on trends to 7<sup>th</sup> February 2022

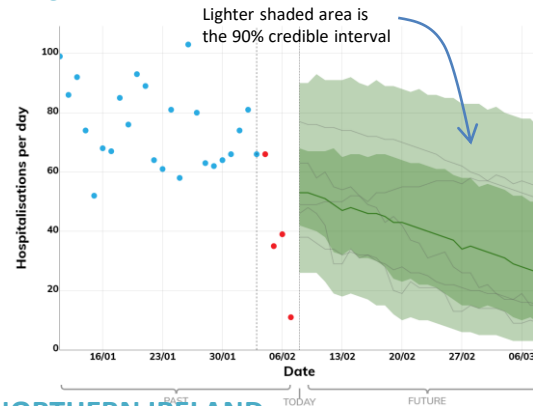
## New hospital admissions per day

These projections are based on current trends and will not fully reflect the impact of policy or behavioural changes over the past two to three weeks. These are not forecasts or predictions.

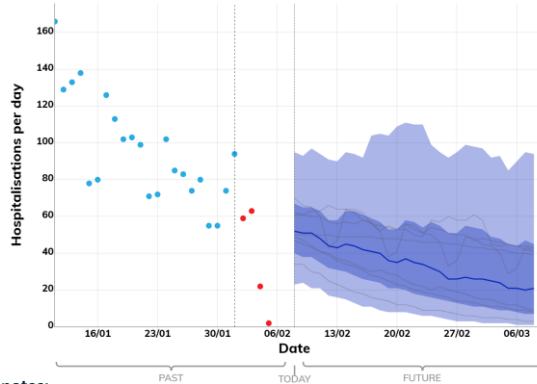
### ENGLAND



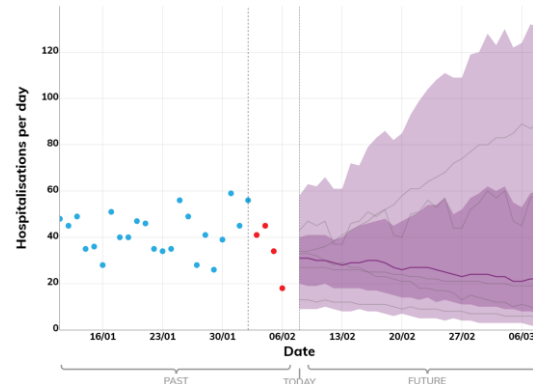
### WALES



### SCOTLAND



### NORTHERN IRELAND



### Key

- Real data
- Expected to Increase
- Projection Midpoint
- High and low estimates 5<sup>th</sup> to 95<sup>th</sup> percentile
- High and low estimates 25<sup>th</sup> to 75<sup>th</sup> percentile
- Models

The fan charts show the **90% credible interval and interquartile range** of the combined projections based on current trends.

These projections do not include the potential effects of the BA.2 sub-lineage of Omicron. The delay between infection, developing symptoms, the need for hospital care, and death means it is unlikely that BA.2 will significantly alter the trajectories of hospitalisations and deaths in the timescales covered by these projections.

The delay between infection, developing symptoms, the need for hospital care, and death means they cannot fully reflect the impact of policy or behavioural changes in the two to three weeks prior to 7<sup>th</sup> February. **The projections do not include the effects of any future policy or behavioural changes, such as recent announcements to ease restrictions in England, Scotland, Wales and Northern Ireland.**

**These projections include the potential impact of vaccines to be given over the next four weeks.** It will take time for the continued rollout of doses to impact the epidemic, given lags between vaccination and protection, and between infection and hospital admission.

#### Data notes:

England: Number of patients admitted with confirmed COVID-19 and the number of inpatients diagnosed with COVID-19 in the past 24 hours. Taken from NHS England COVID-19 situation reports.

Wales: Number of patients admitted with confirmed COVID-19 and inpatients diagnosed with COVID-19. Provided by Public Health Wales.

Scotland: Number of patients who tested positive for COVID-19 in the 14 days prior to admission, on the day of admission, or during their stay in hospital. Readmissions within 14 days of a positive test are excluded. Provided by Public Health Scotland.

Northern Ireland: Number of patients admitted with confirmed COVID-19 and inpatients diagnosed with COVID-19. Provided by Health and Social Care Northern Ireland.

# Modelled projections based on trends to 7<sup>th</sup> February 2022

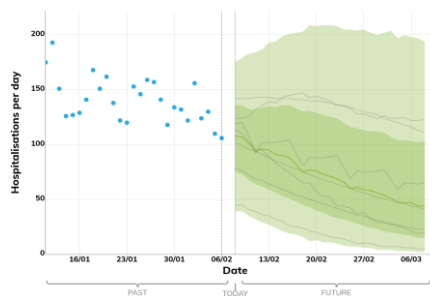
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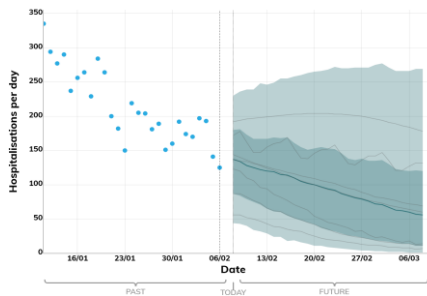
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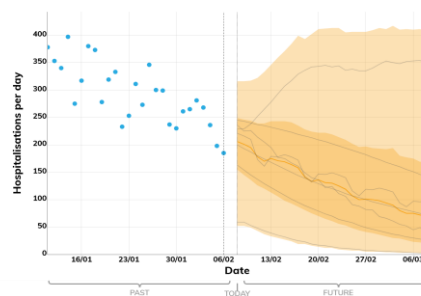
EAST OF ENGLAND



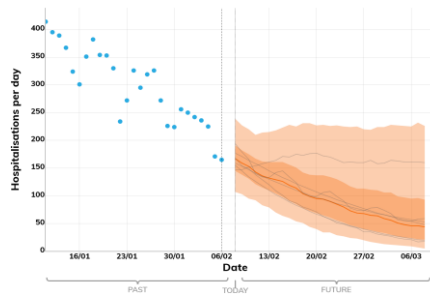
LONDON



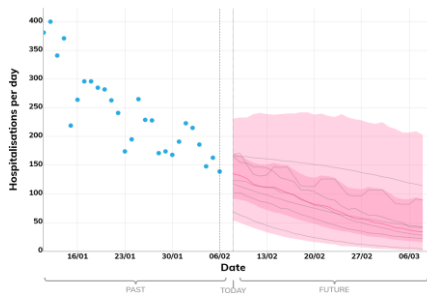
MIDLANDS



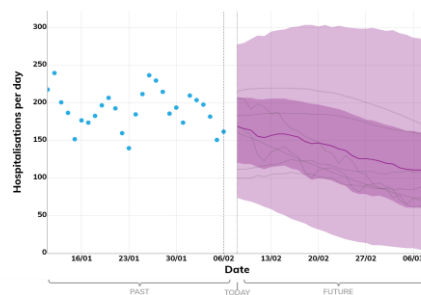
NORTH EAST AND YORKSHIRE



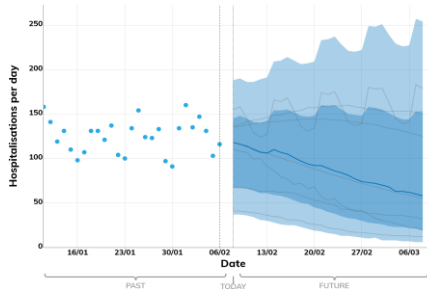
NORTH WEST



SOUTH EAST



SOUTH WEST



The fan charts show the **90% credible interval and interquartile range** of the combined projections based on current trends.

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### Data notes:

England: Number of patients admitted with confirmed COVID-19 and the number of inpatients diagnosed with COVID-19 in the past 24 hours. The past data is taken from the NHS England COVID-19 situation reports.

# Modelled projections based on trends to 7<sup>th</sup> February 2022

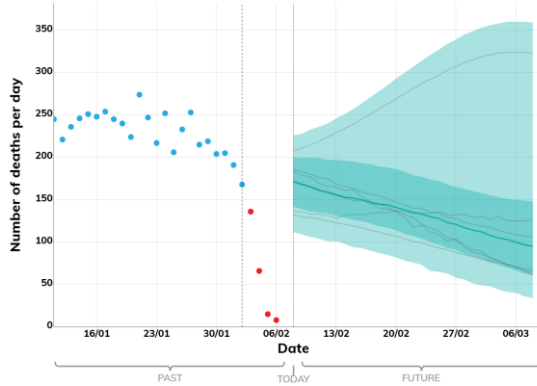
## New deaths per day

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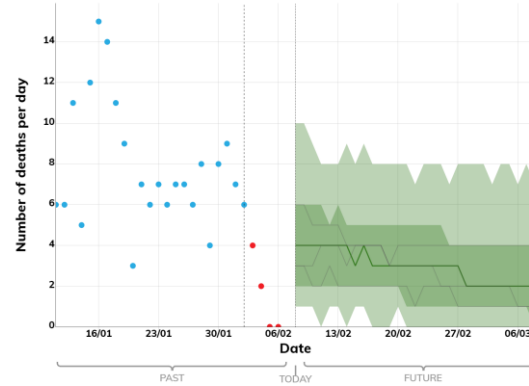
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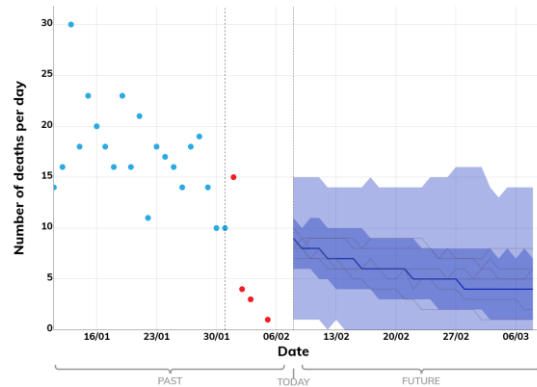
### ENGLAND



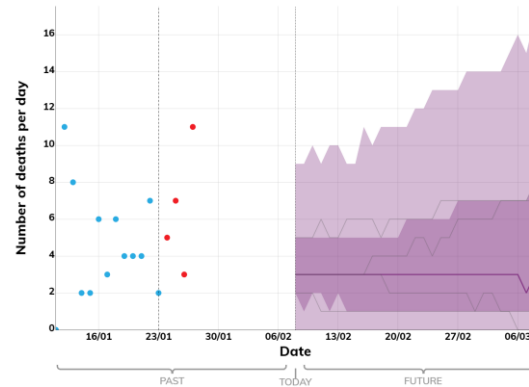
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### Data Notes:

The number of COVID-19 deaths (by date of death) within 28 days of being identified as a COVID-19 case. The past data for England is taken from the PHE line list of deaths. The past data for Scotland, Wales, and Northern Ireland is taken from the Coronavirus (COVID-19) in the UK dashboard on Gov.uk.

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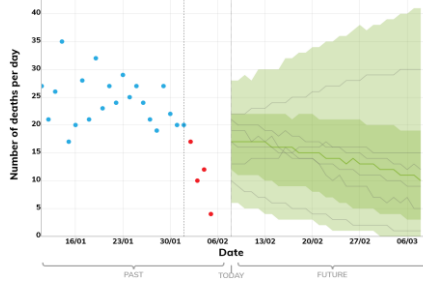
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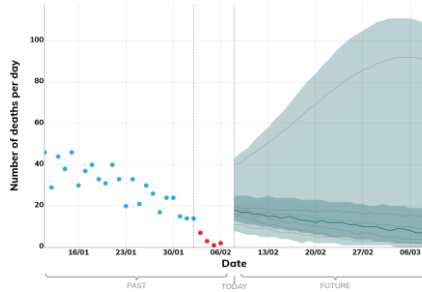
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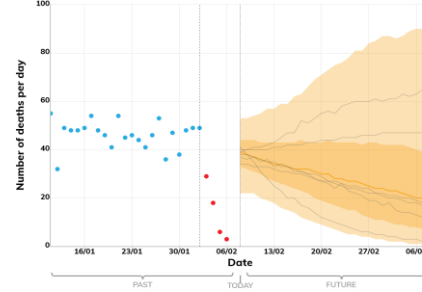
EAST OF ENGLAND



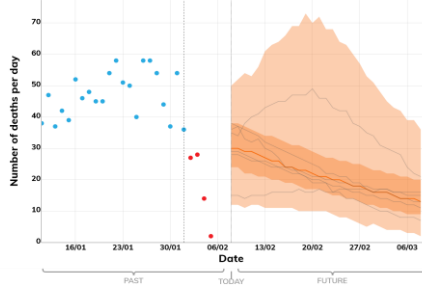
LONDON



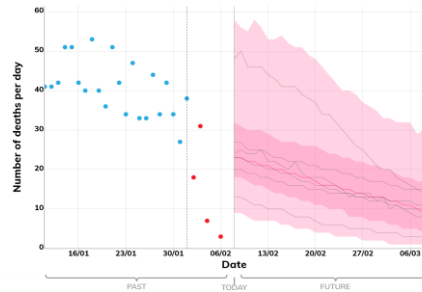
MIDLANDS



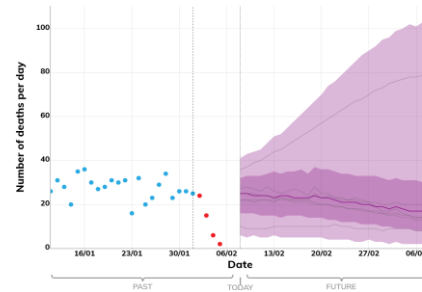
NORTH EAST AND YORKSHIRE



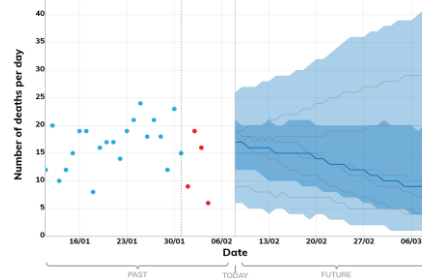
NORTH WEST



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