

SPI-M-O

Medium Term Projections

As at 15/09/2020

SPI-M-O medium term projections

- These projections are **under development** and represent SPI-M-O's **best assessment of the potential trajectory** of the epidemic over the next 8 weeks, based on the patterns seen and data available up to **15th of September 2020**. Projections for **hospitalisations** are provided for **England, Scotland, Wales, Northern Ireland and NHS England regions**.
- These **portray a range of possible futures** and are produced by fitting epidemiological models to trends in the past data. SPI-M-O members extrapolate forwards and use their expert judgements about how viral transmission will change **in the absence of additional government intervention or behavioural changes**.
- Modelling groups have made assumptions about the likely impact of opening schools on viral transmission.
- **Further work is required on these projections**; currently only one modelling group and the Scottish Government have submitted results for hospital admissions. **Other groups are developing their methodologies** and will provide results over the coming weeks and that will lead to more robust combined results in the future. Until this point, these projections should be considered as **drafts for discussion** and a **work in progress**.
- **Making projections at the turning point of an epidemic is particularly challenging**; this was the situation in the UK at the time these projections were developed. The lagged nature of many data streams makes it difficult to detect and interpret changes.

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.

Individual Model Projections

New hospitalisations per day

As at 15/09/2020

DRAFT

Model

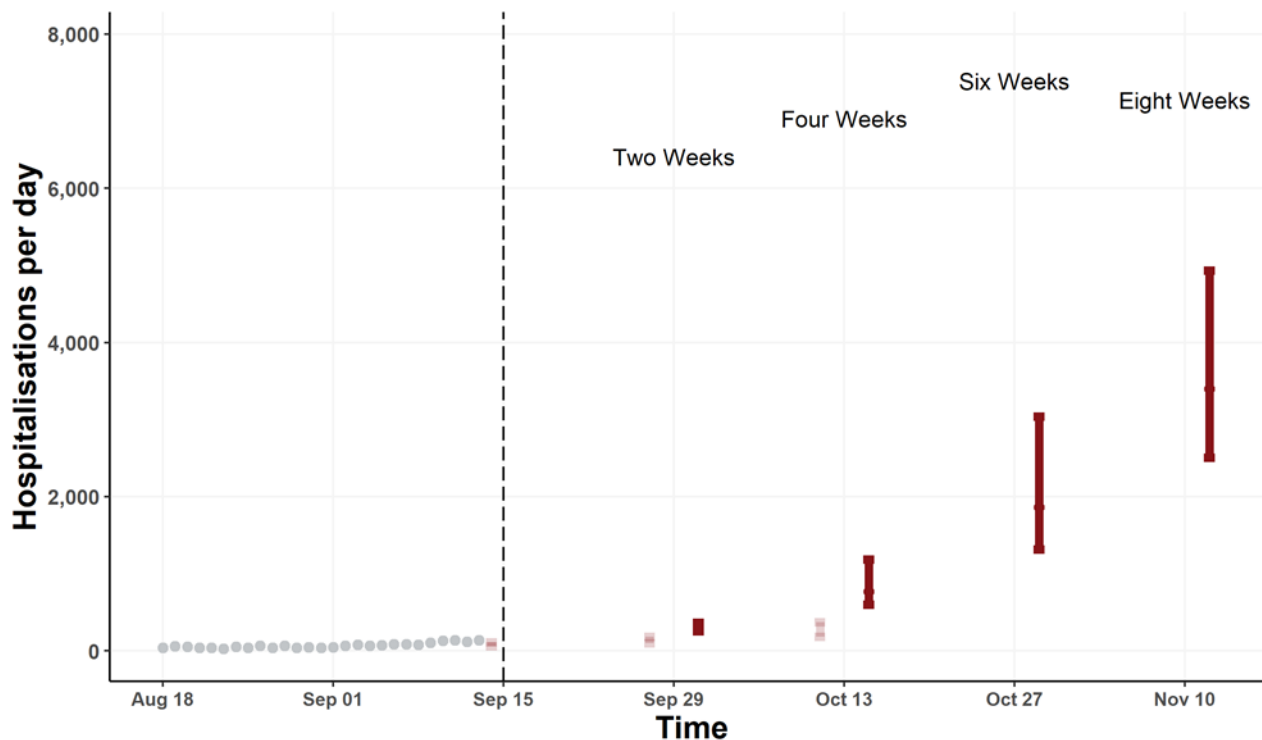
Individual model predictions from each respective SPI-M participant.

Warwick ODE WITH CASES

Key

- Real data
- Unconfirmed data
- Today's date

ENGLAND



Notes:

Number of patients admitted with confirmed COVID-19 and the number of inpatients diagnosed with COVID-19 in the past 24 hours.

Individual Model Projections

New hospitalisations per day

As at 15/09/2020

DRAFT

Model

Individual model predictions from each respective SPI-M participant.

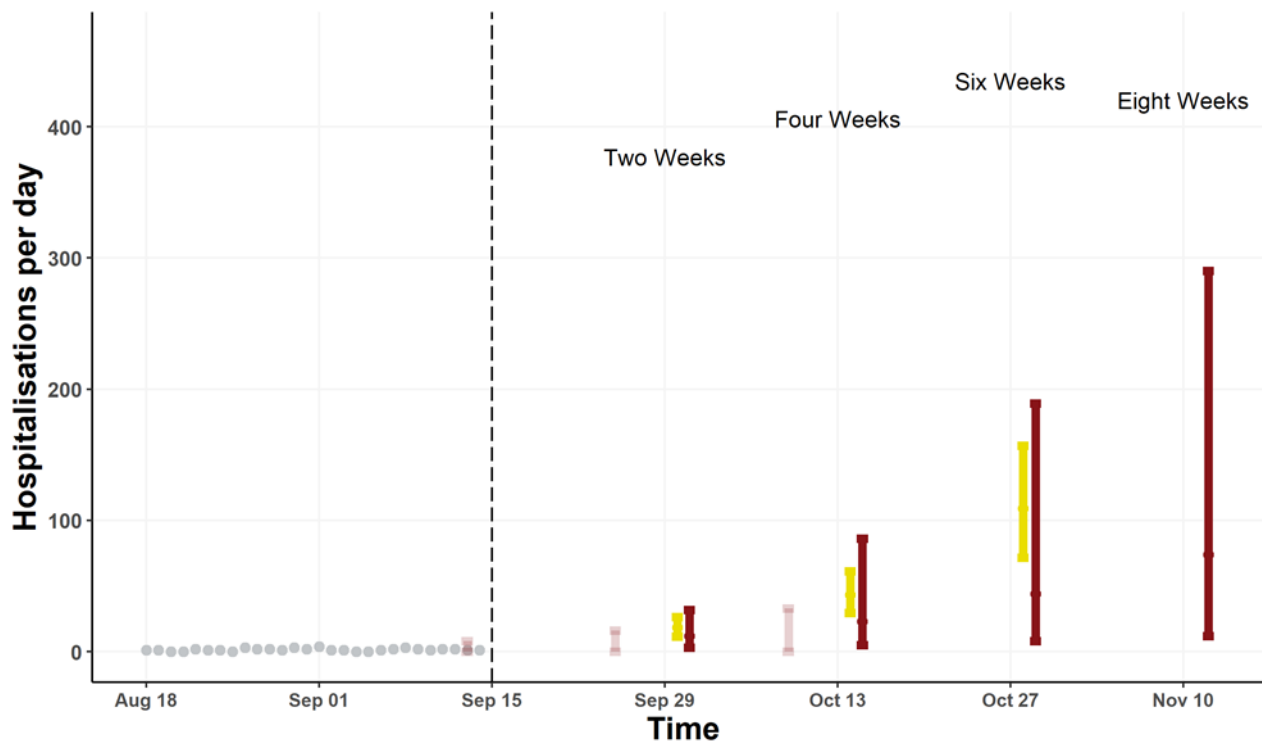
Warwick ODE WITH CASES

Scottish Government BAYESIAN MECHANISTIC

Key

- Real data
- Unconfirmed data
- - - Today's date

SCOTLAND



Notes:

Number of patients admitted with confirmed COVID-19 and inpatients diagnosed with COVID-19 within 7 days of admission.

Individual Model Projections

New hospitalisations per day

As at 15/09/2020

DRAFT

Model

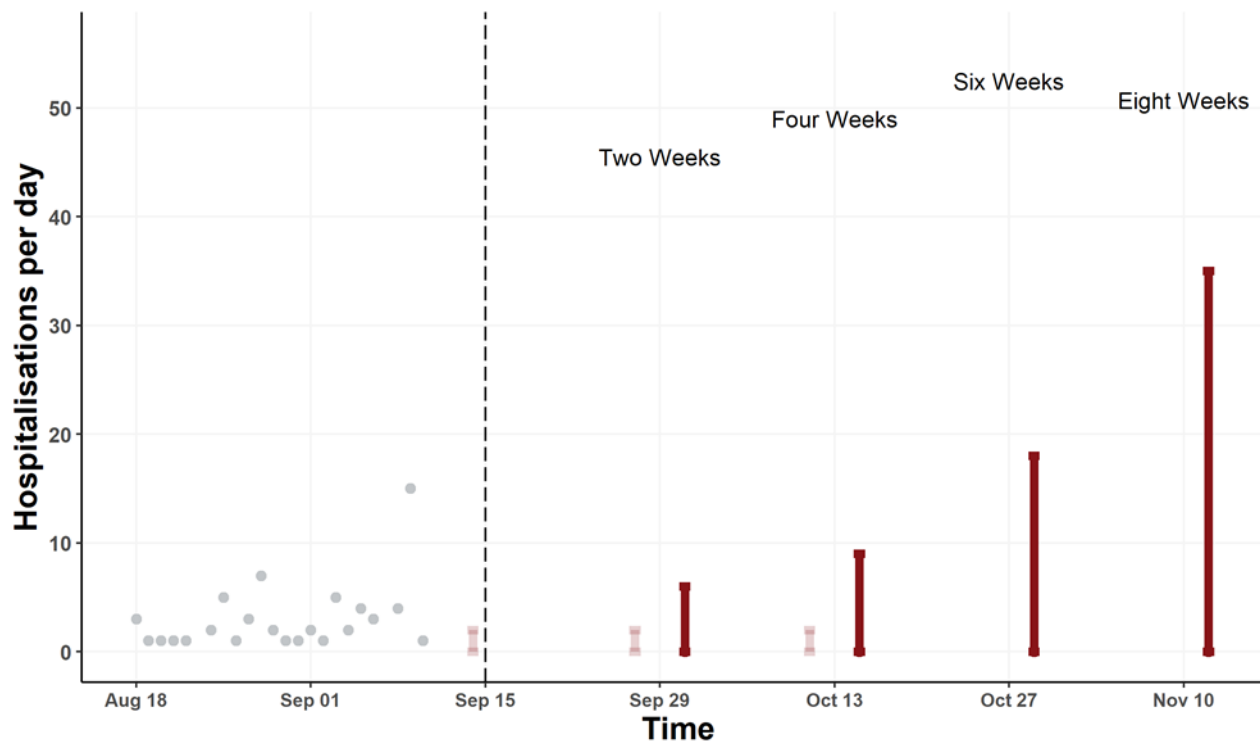
Individual model predictions from each respective SPI-M participant.

Warwick ODE WITH CASES

Key

- Real data
- Unconfirmed data
- Today's date

WALES



Notes:

Number of patients admitted with confirmed COVID-19 and the number of patients diagnosed with COVID-19 on the day of admission.

Individual Model Projections

New hospitalisations per day

As at 15/09/2020

DRAFT

Model

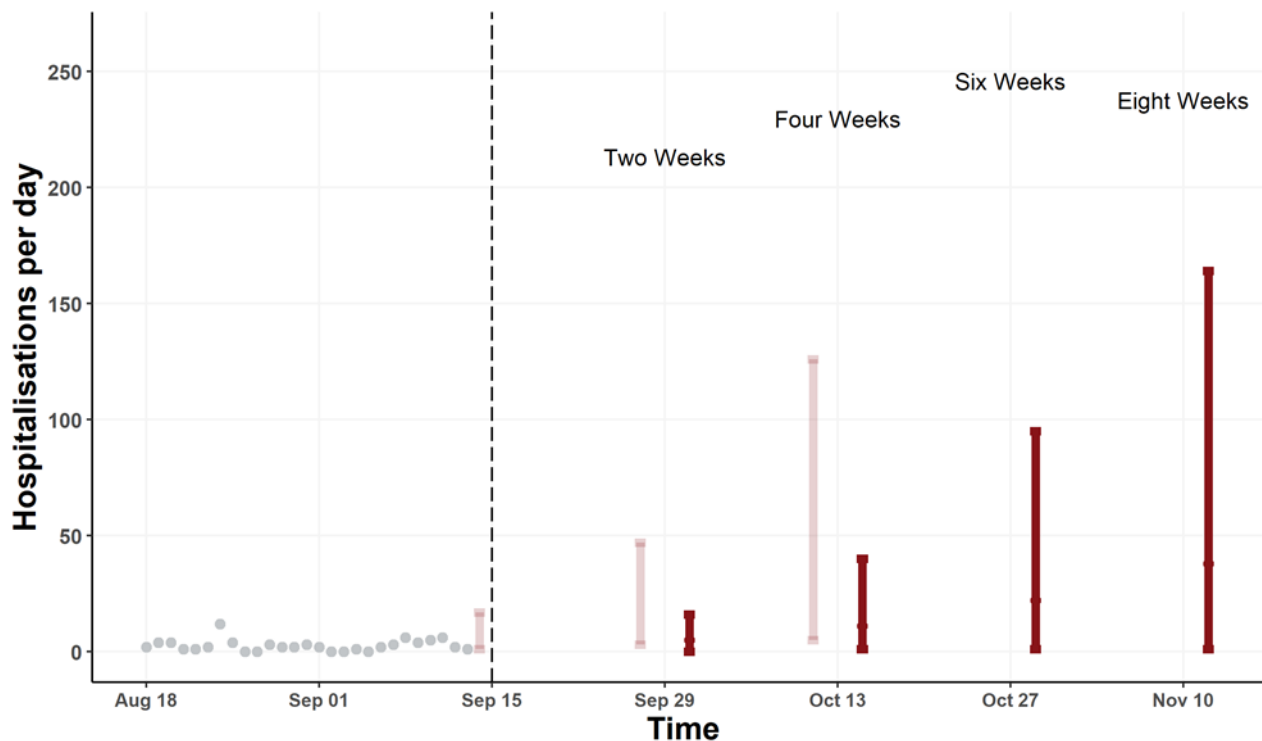
Individual model predictions from each respective SPI-M participant.

Warwick ODE WITH CASES

Key

- Real data
- Unconfirmed data
- - - Today's date

NORTHERN IRELAND



Notes:
 Number of patients admitted with confirmed COVID-19 and the number of inpatients diagnosed with COVID-19.

Annex:
Regional Projections

DRAFT

Individual Model Projections

New hospitalisations per day

As at 15/09/2020




DRAFT

Model

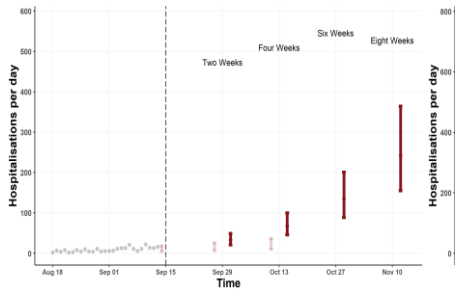
Individual model predictions from each respective SPI-M participant.

 Warwick ODE WITH CASES

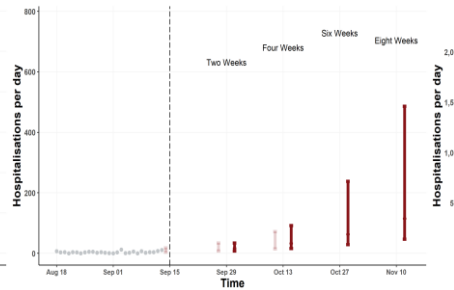
Key

-  Real data
-  Unconfirmed data
-  Today's date

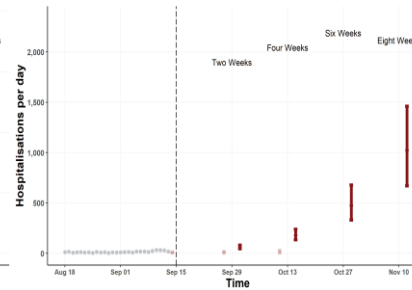
LONDON



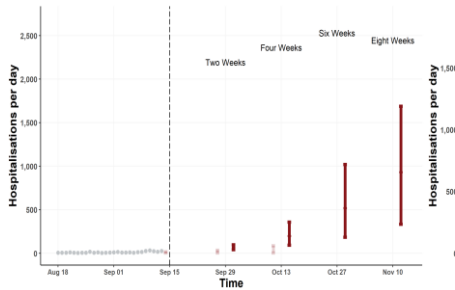
EAST OF ENGLAND



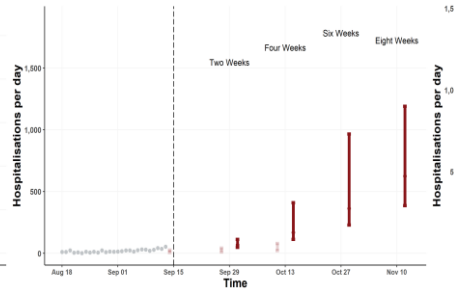
MIDLANDS



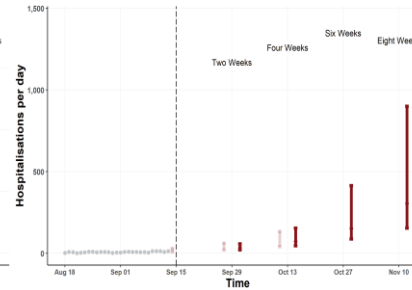
NORTH EAST AND YORKSHIRE



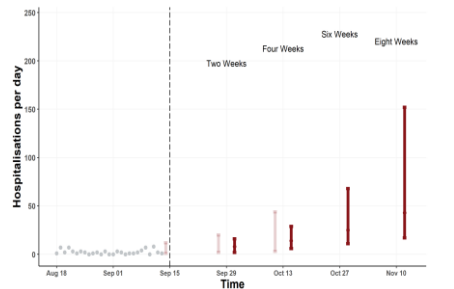
NORTH WEST



SOUTH EAST



SOUTH WEST



Notes:

Number of patients admitted with confirmed COVID-19 and the number of inpatients diagnosed with COVID-19 in the past 24 hours.