Public Health England

PHE Influenza Surveillance graphs

- This slideshow covers seasonal influenza data sources, please refer back to the website for the most up-to-date version and for further information.
- Influenza activity in the United Kingdom is monitored using a variety of surveillance systems. The National Influenza Report which interprets the data is published weekly.
- You can scroll through all the graphs and maps on this slide show, alternatively, find the figure you are interested in from the following options. You can click back to this menu page from any of the slides. If have any queries please contact respcdsc@phe.gov.uk
- Primary care – GP-based surveillance, syndromic surveillance through NHS Direct
- Microbiological – Sentinel and non-sentinel laboratory figures
- Mortality – all-cause deaths from ONS and excess mortality estimates

NOTE: Some figures are not currently available. These are indicated as such on menu pages

Public Health England

Primary Care Figures

- Clinical information from primary care is obtained through sentinel networks of GPs who provide data weekly. Information from the nurse-led telephone help line service, NHS Direct also provides information on the level of influenza activity.
- Select from the following options:
- RCGP – Royal College of General Practitioners, a sentinel GP system in England and Wales.
- QSurveillance – a sentinel GP system in England, Wales and Northern Ireland.
- Devolved administrations – sentinel GP networks in Northern Ireland, Scotland and Wales
- NHS Direct

Public Health England

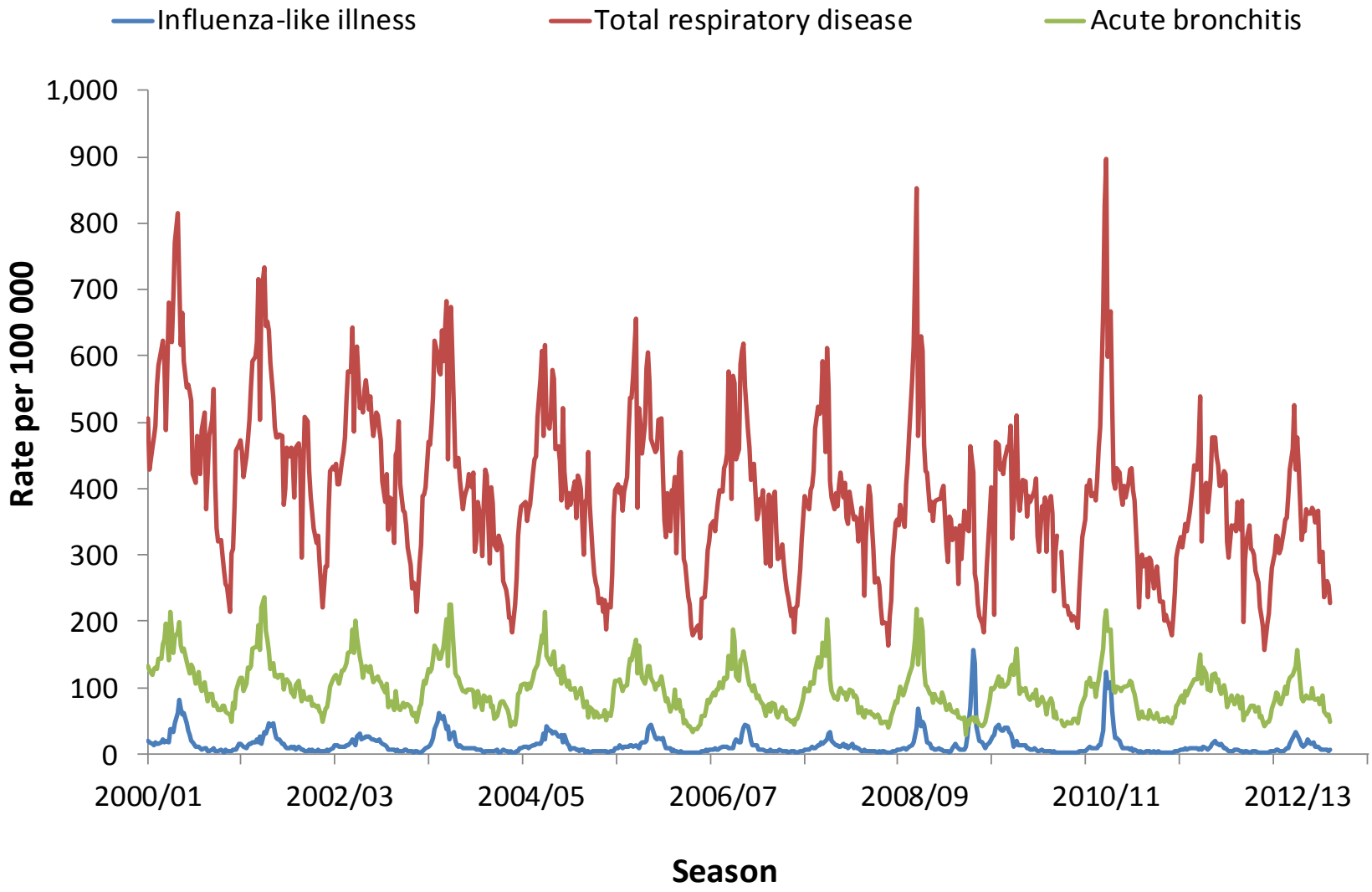
Royal College of General Practitioners

All figures are presented as rates per 100,000 population. Please choose from the following options, or click through to view them all.

- Influenza-like illness (ILI), acute bronchitis (AB) and total respiratory disease (TRD), 1999 onwards
- ILI, 1987 onwards
- ILI current and recent seasons
- ILI current season, by age group
- ILI current season, by region (north, central and south)
- AB current and recent seasons
- AB current season, by age group

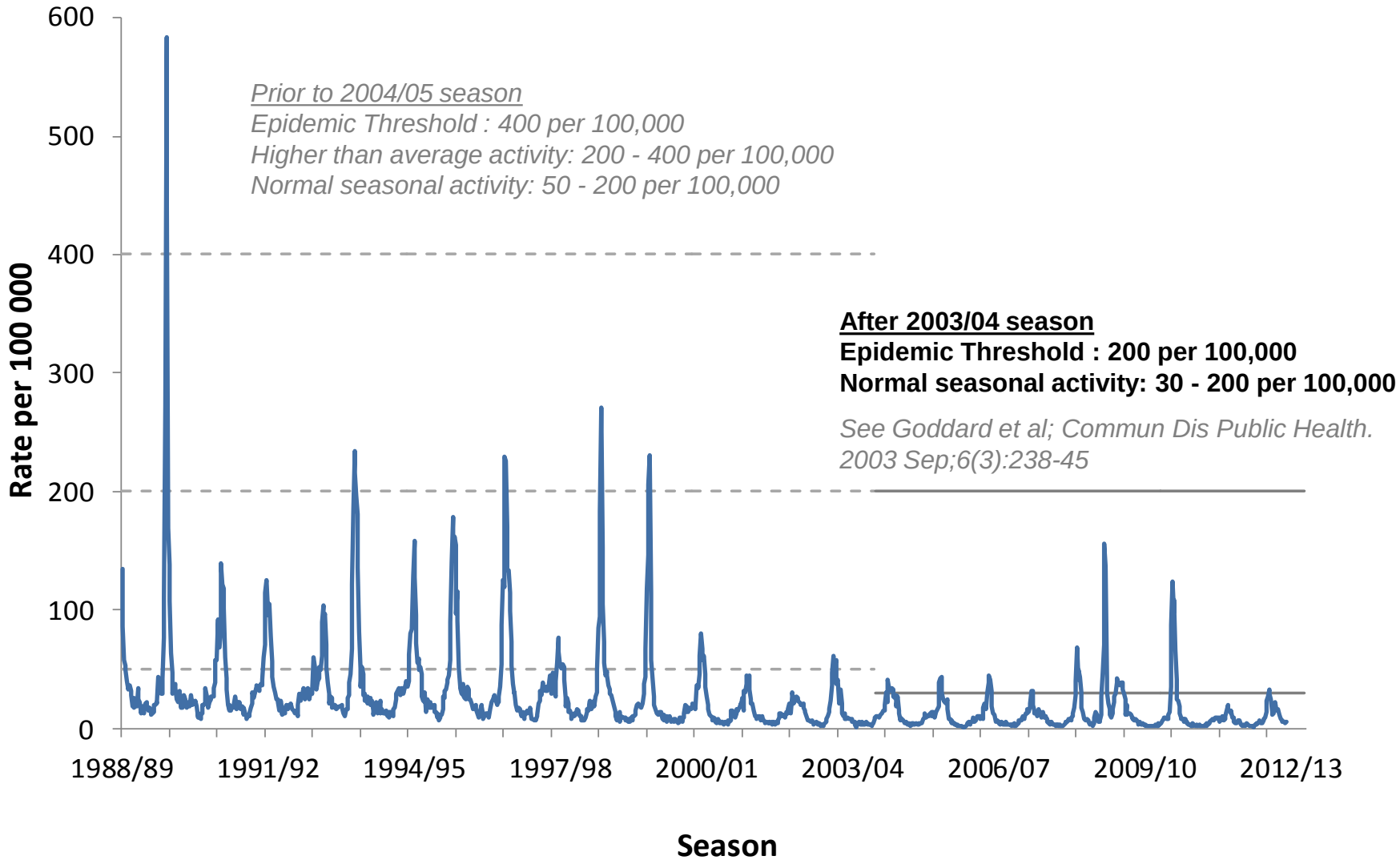
Public Health England

RCGP: Influenza-like illness (ILI), acute bronchitis (AB) and total respiratory disease (TRD), 1999 onwards



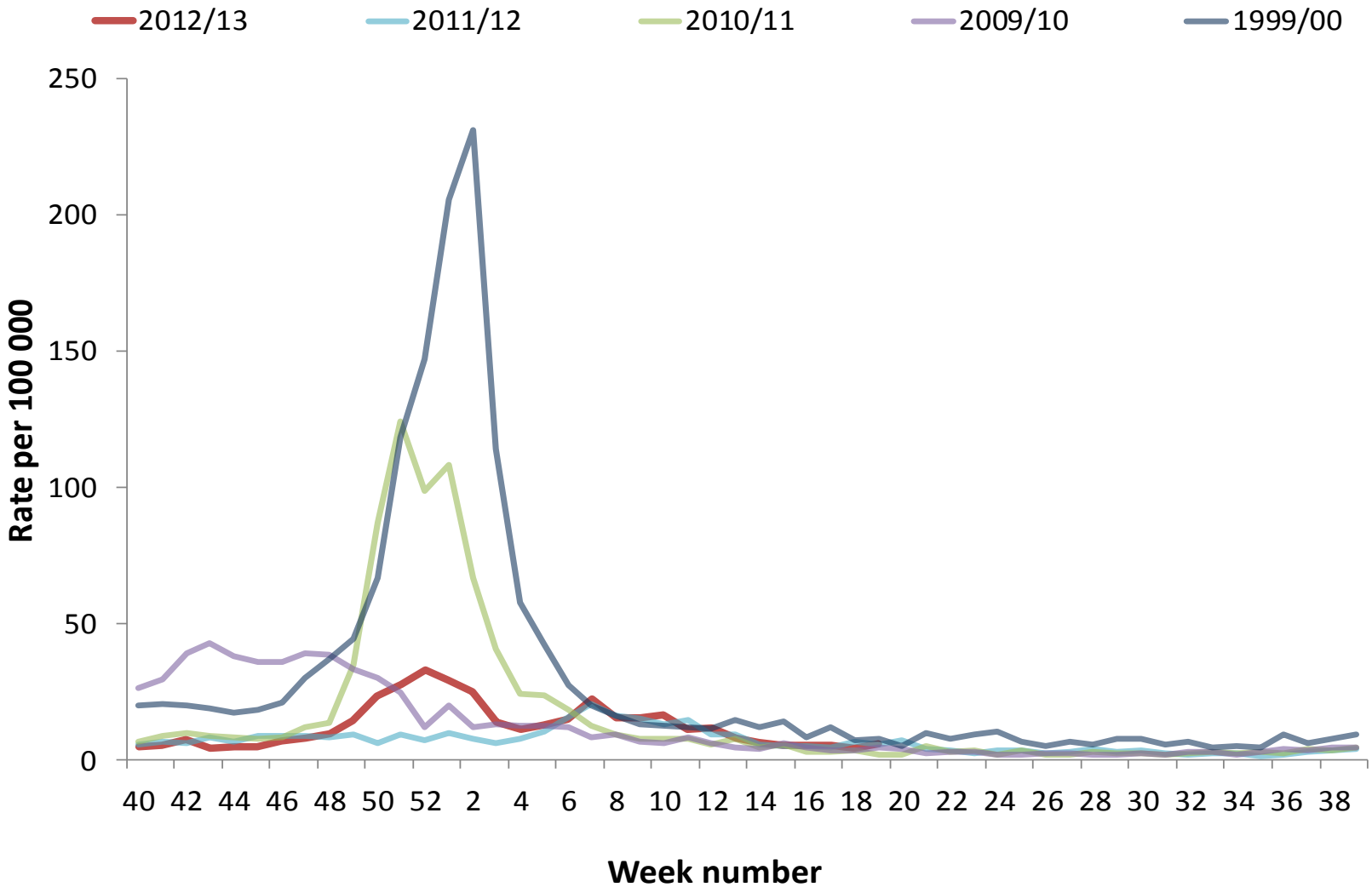
RCGP: Influenza-like illness, 1987 onwards

Public Health England



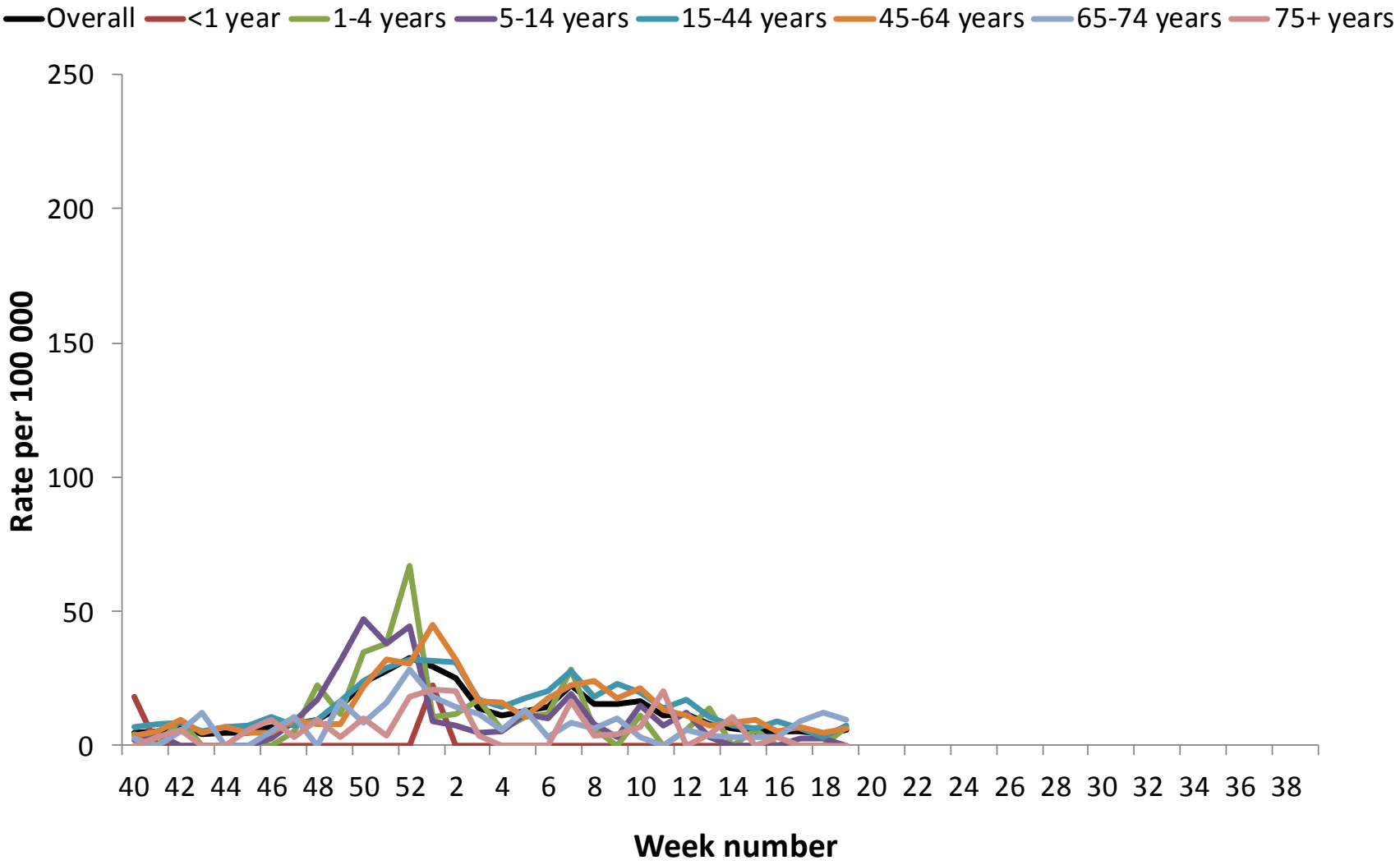
Public Health England

RCGP: Influenza-like illness current and recent seasons



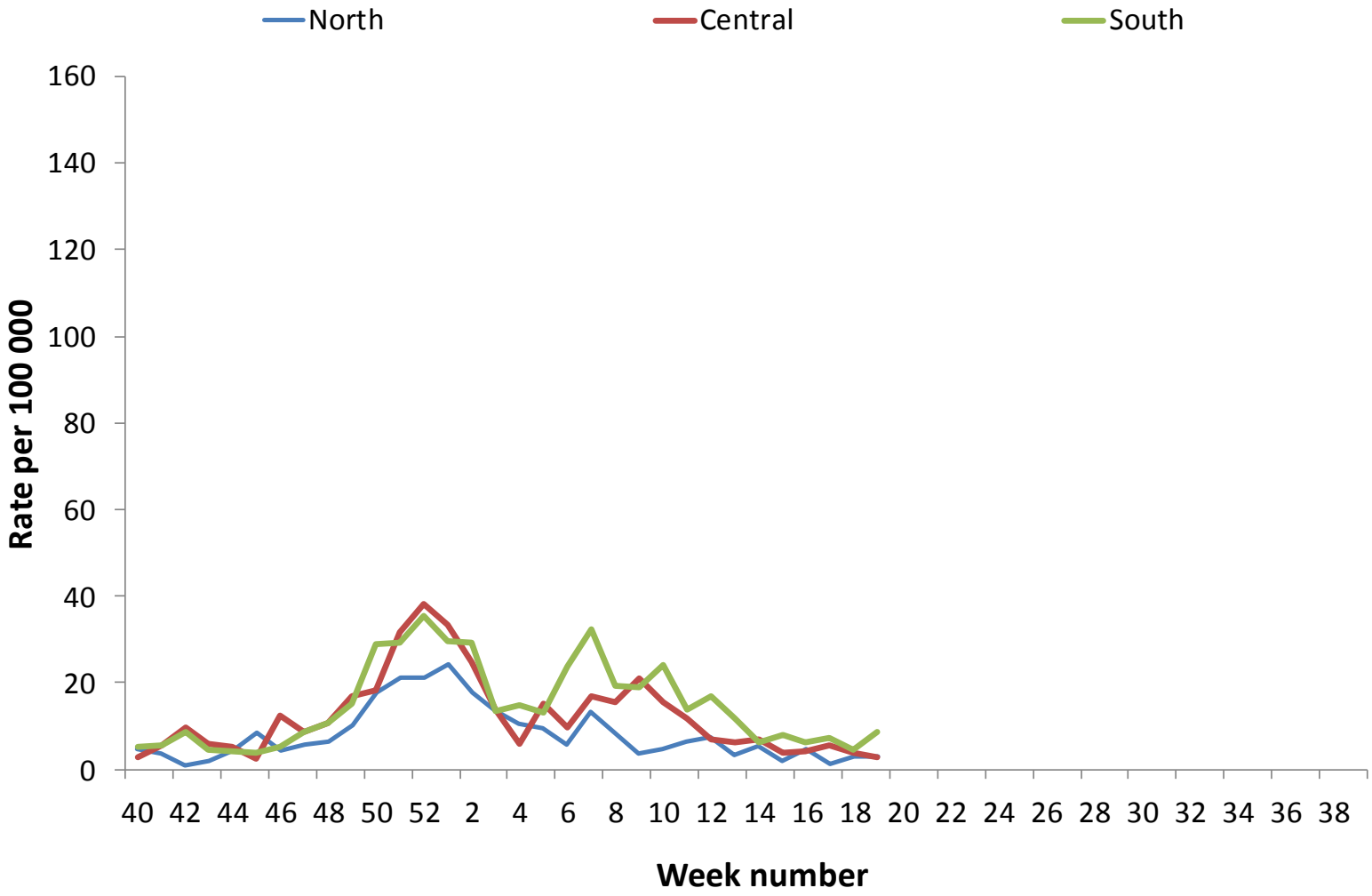
Public Health England

RCGP: ILI current season, by age group



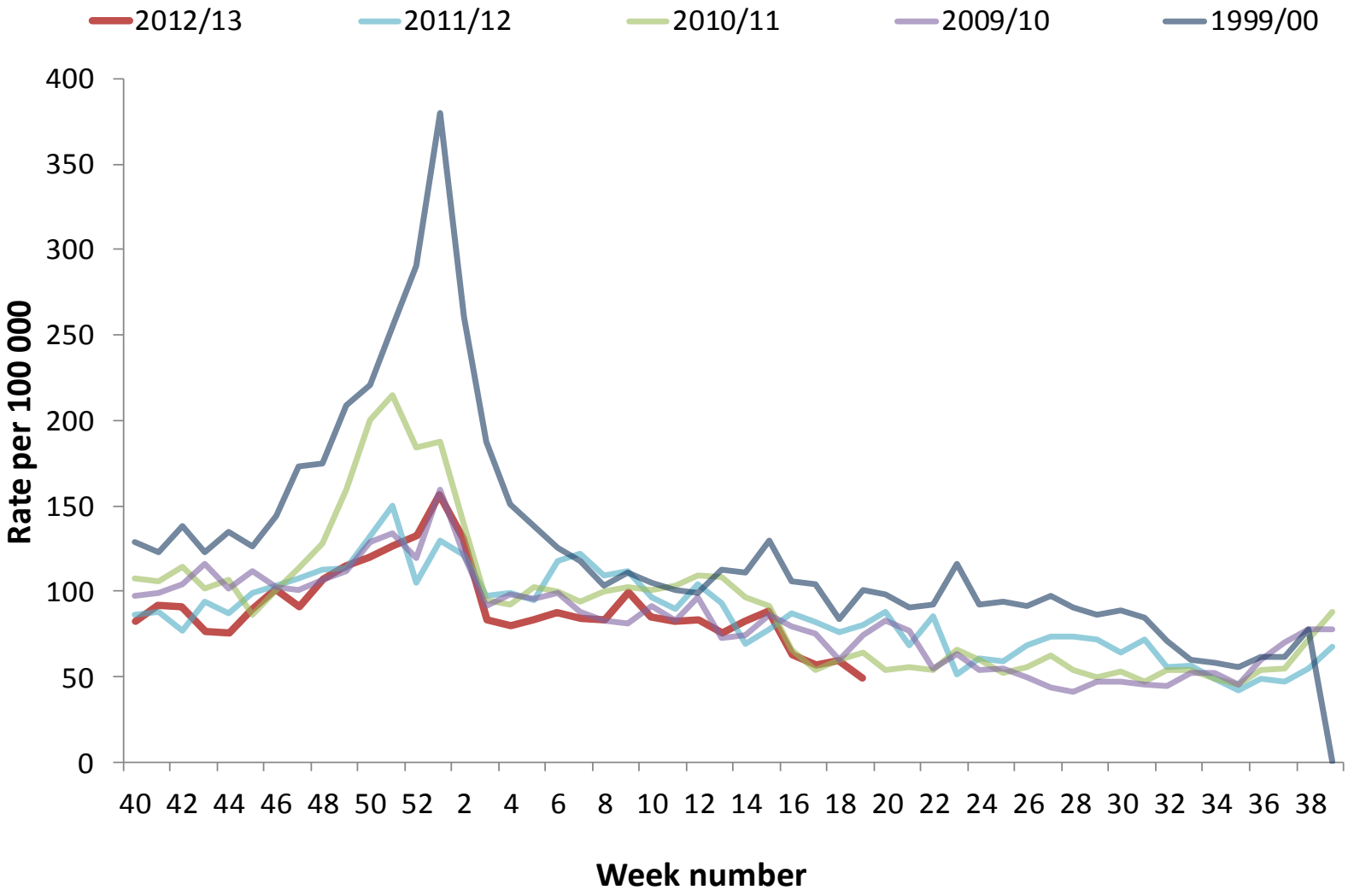
Public Health England

RCGP: ILI current season, by region (north, central and south)



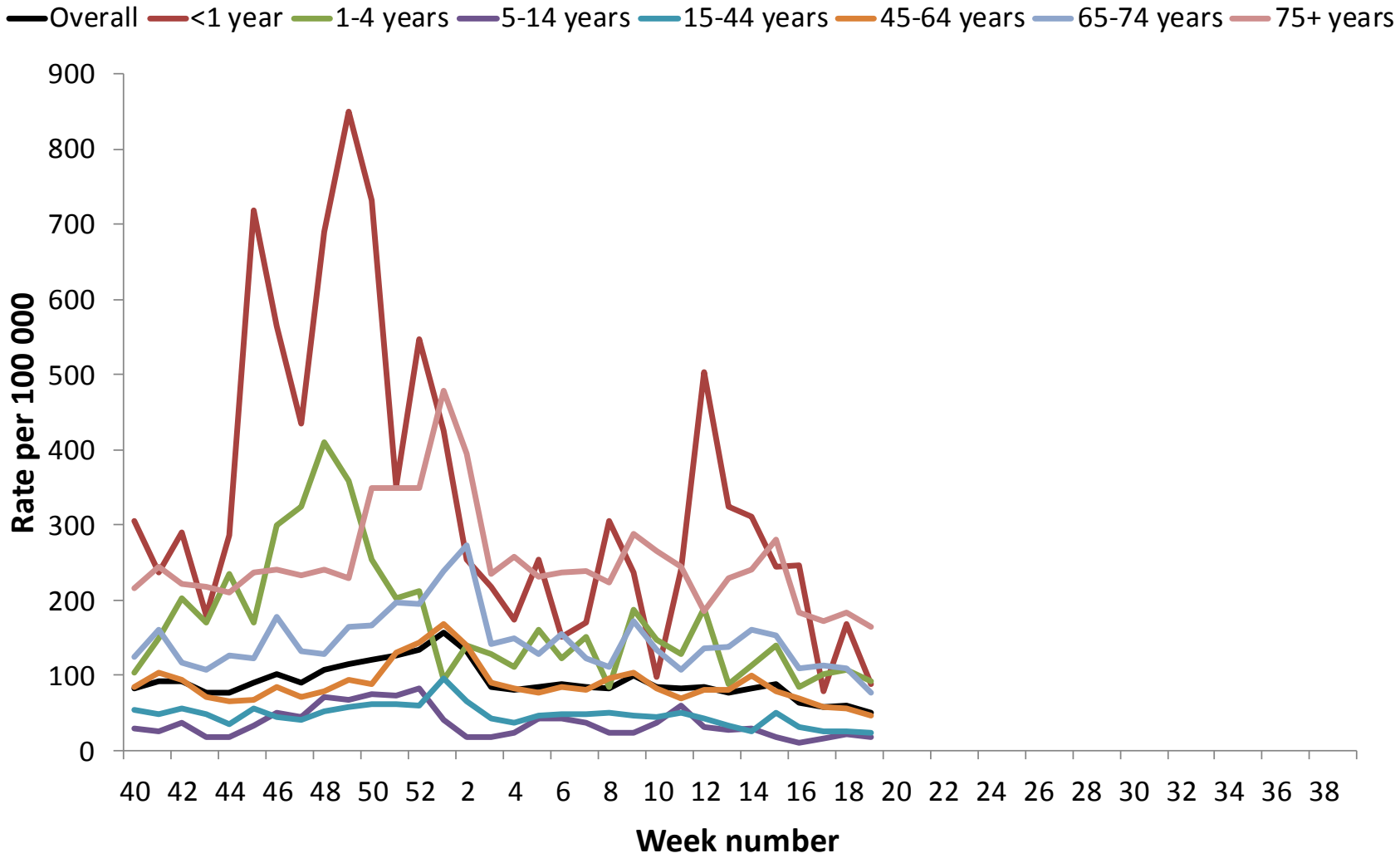
Public Health England

RCGP: Acute bronchitis current and recent seasons



Public Health England

RCGP: AB current season, by age group



Public Health England

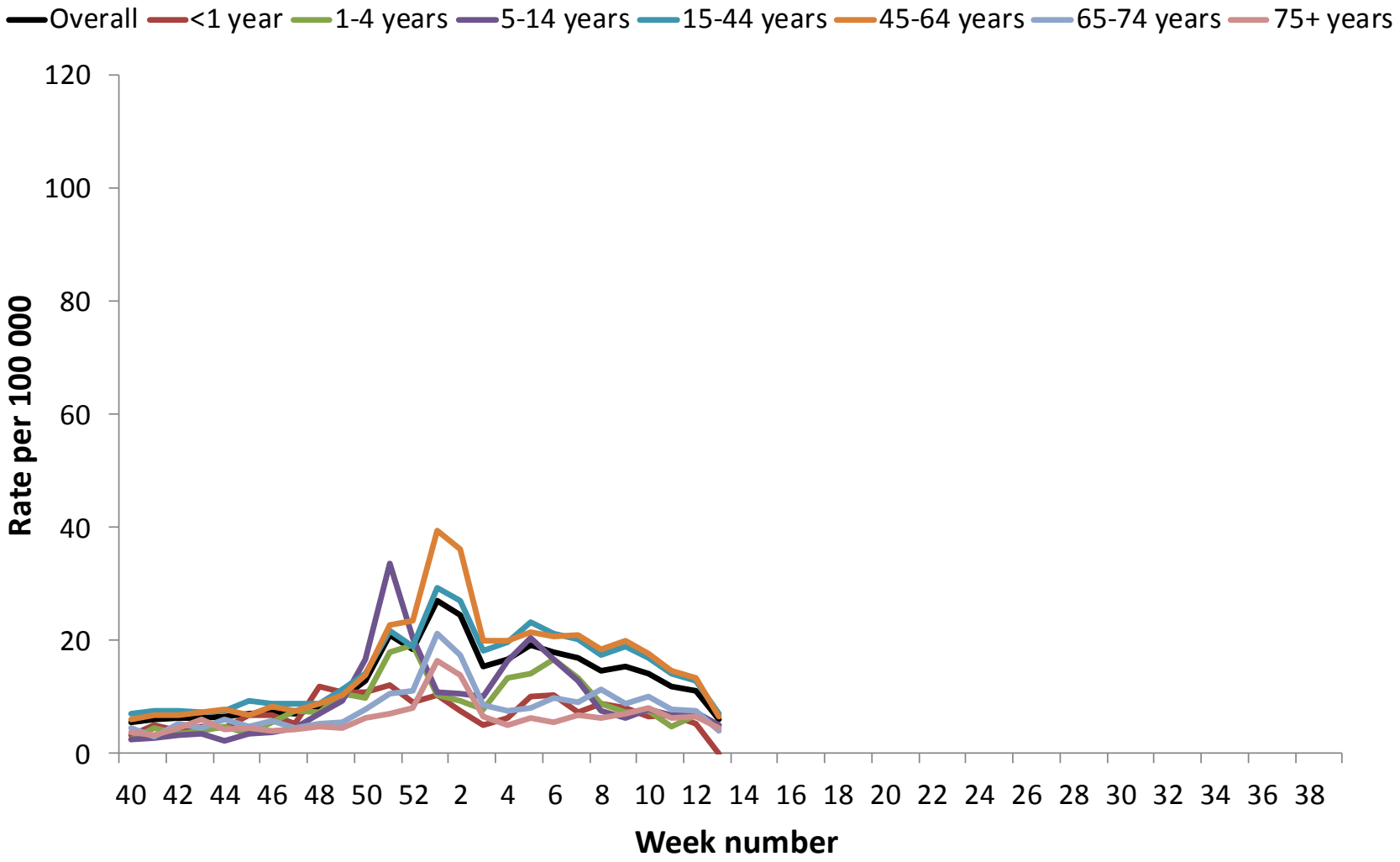
QSurveillance

All figures are presented as rates per 100,000 population. Please choose from the following options, or click through to view them all.

- Influenza-like illness by age group
- Influenza-like illness by region
- Pneumonia by age group

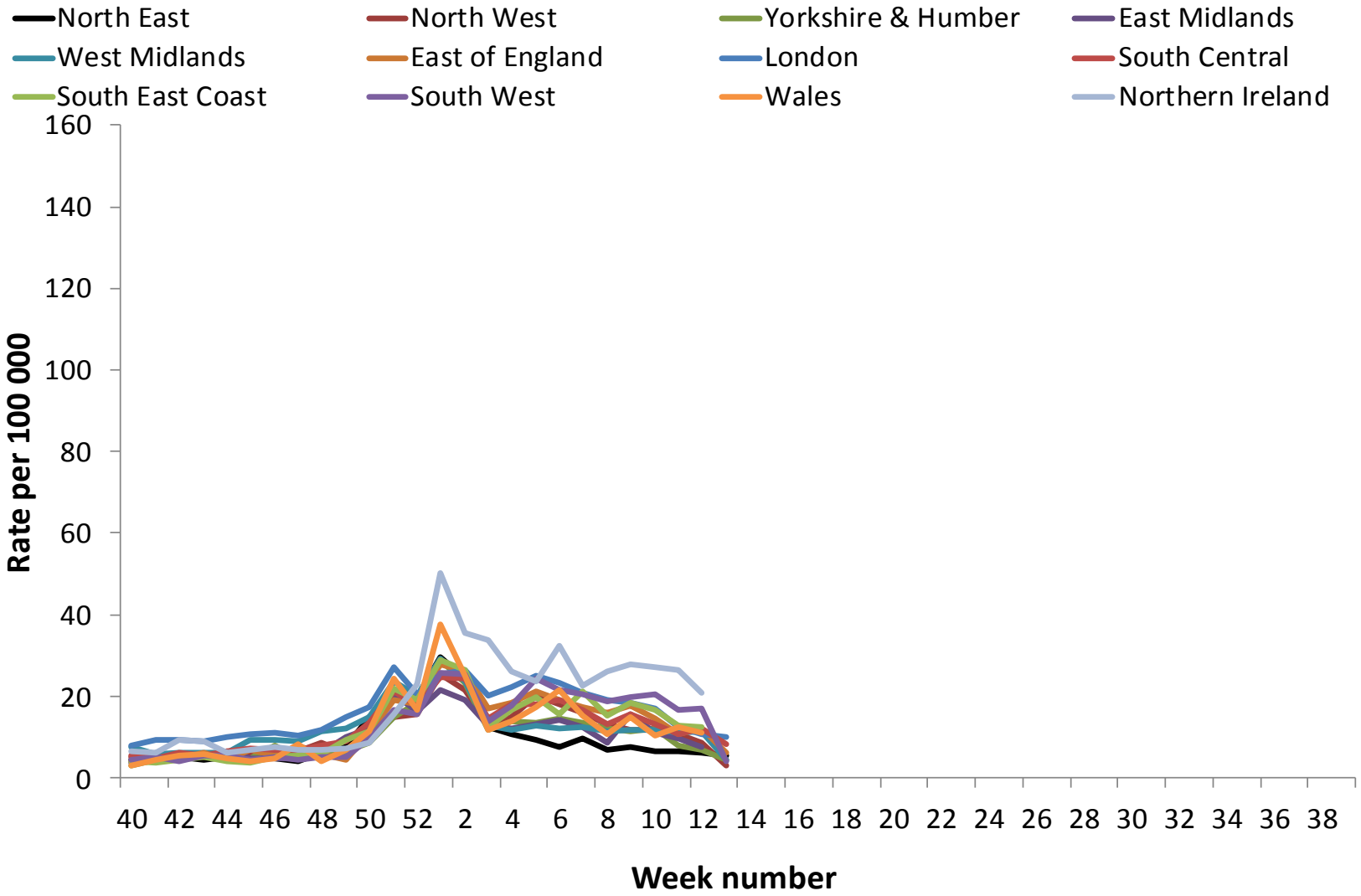
Public Health England

QSurveillance: Influenza-like illness by age group



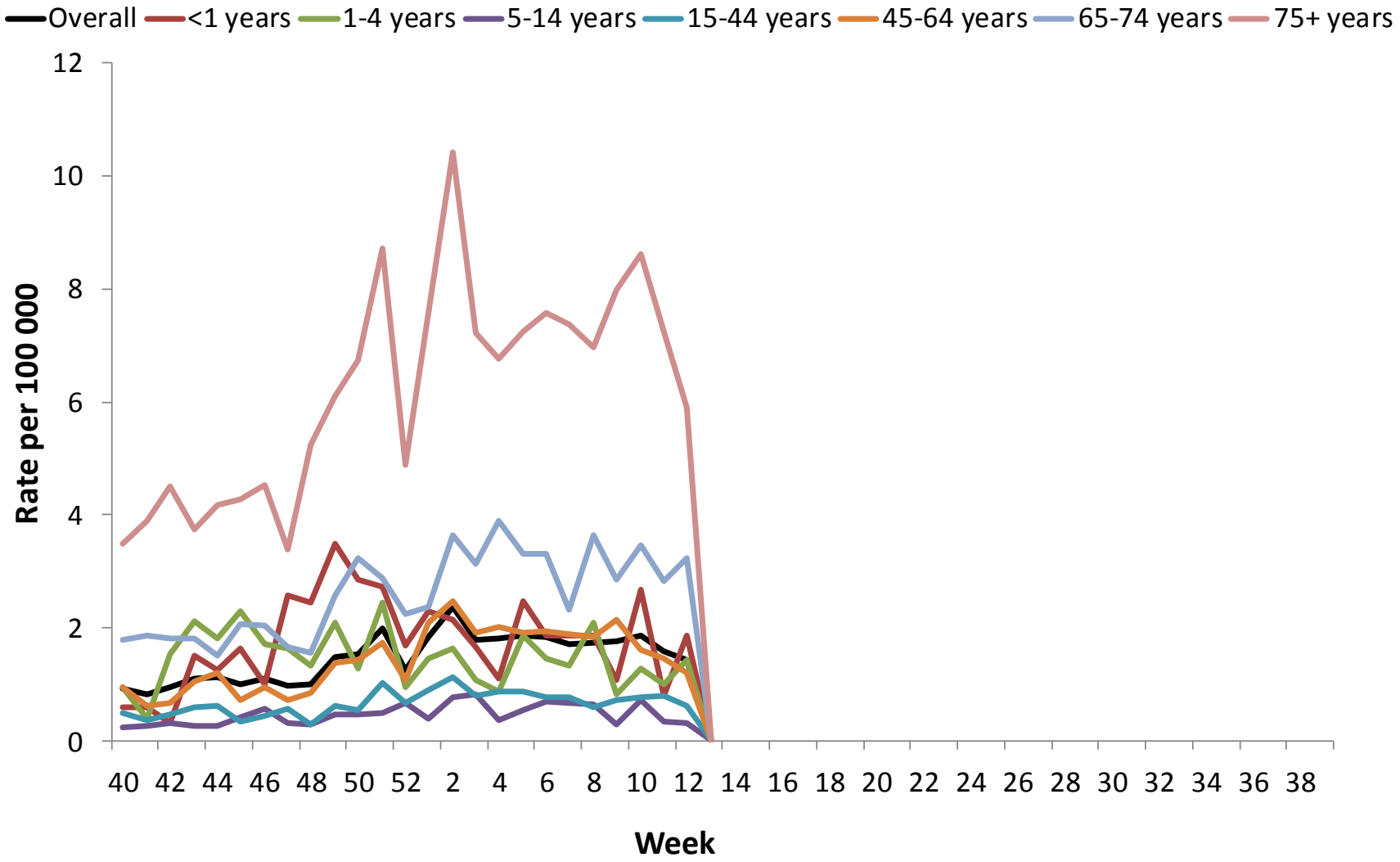
Public Health England

QSurveillance: Influenza-like illness by region



Public Health England

QSurveillance: Pneumonia by age group



Public Health England

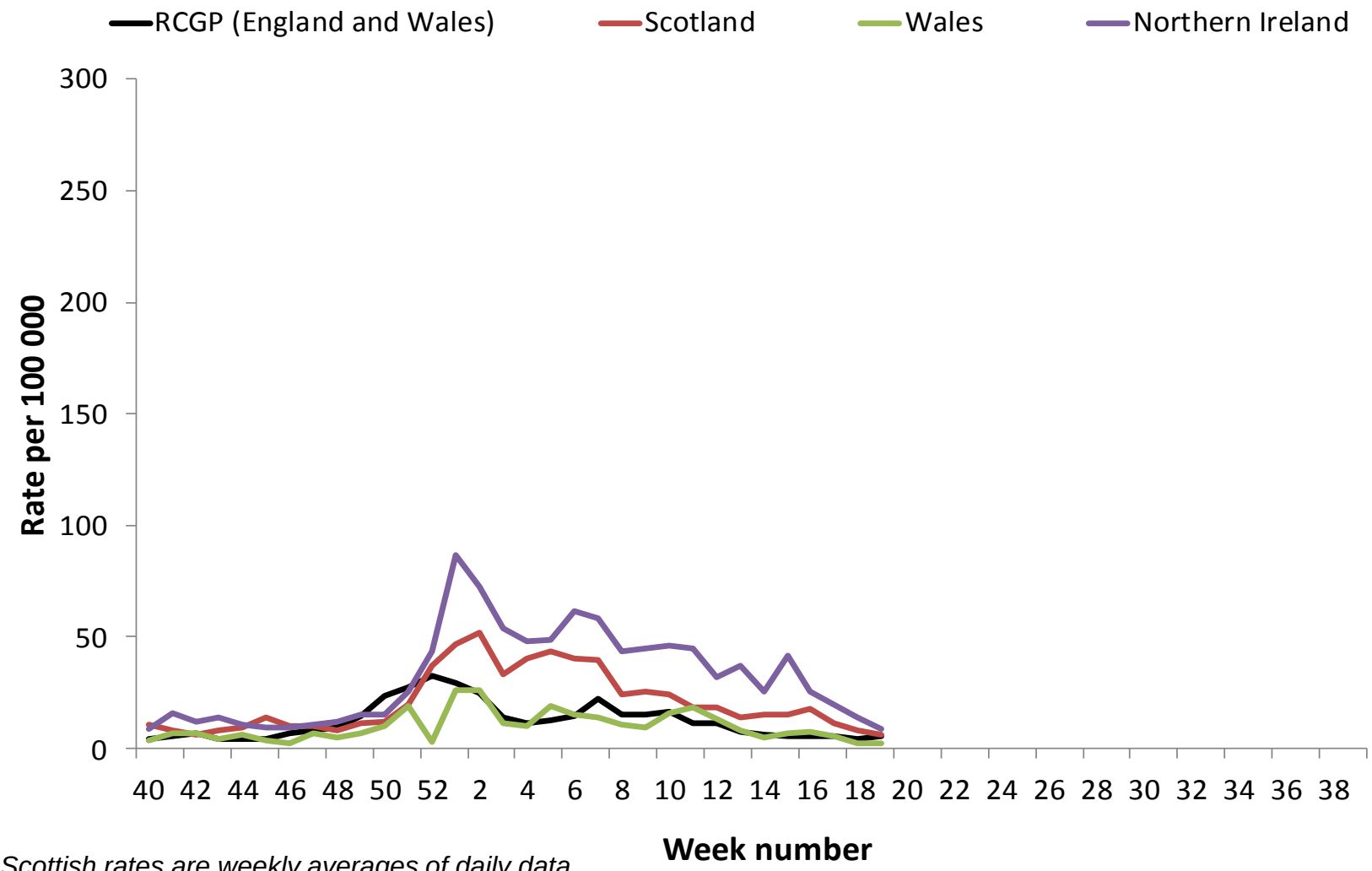
Devolved Administrations

Sentinel GP systems operate in each of the four countries of the UK, there are differences between all schemes, so data are not directly comparable. See sources of flu data for further information.
Please select a figure, or click through all figures:

- ILI/influenza – RCGP (England and Wales), Scotland, Wales and Northern Ireland, current season
- Scotland: ILI, current and recent seasons
- Scotland: ILI current season, by age group
- Wales: Influenza , current and recent seasons
- Wales: Influenza current season, by age group
- Northern Ireland: ILI/influenza, current and recent seasons
- Northern Ireland: ILI/influenza current season, by age group

Public Health England

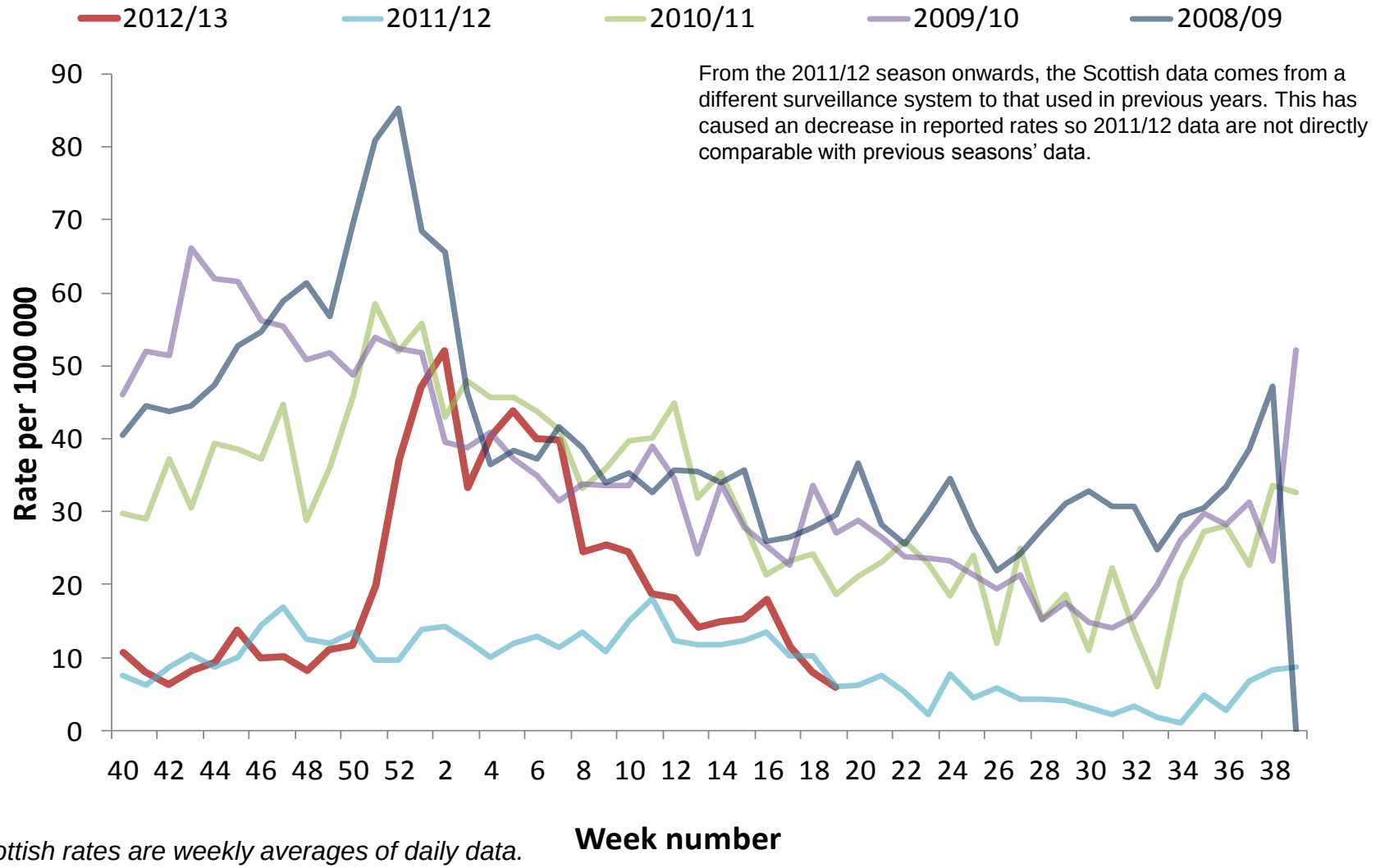
ILI/influenza – RCGP (England and Wales), Scotland, Wales and Northern Ireland



NB. Scottish rates are weekly averages of daily data.

Public Health England

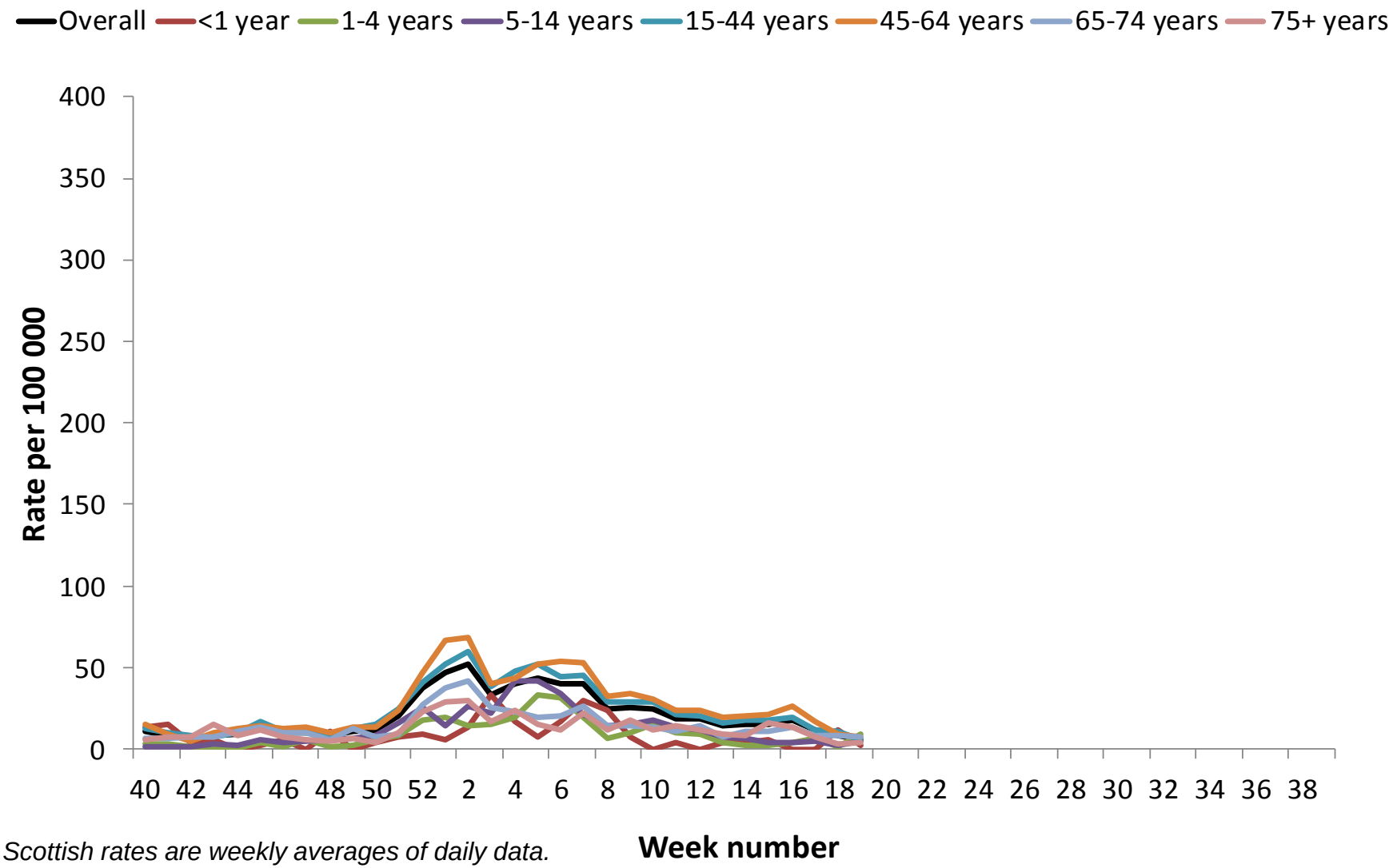
Scotland: ILI, current and recent seasons



NB. Scottish rates are weekly averages of daily data.

Public Health England

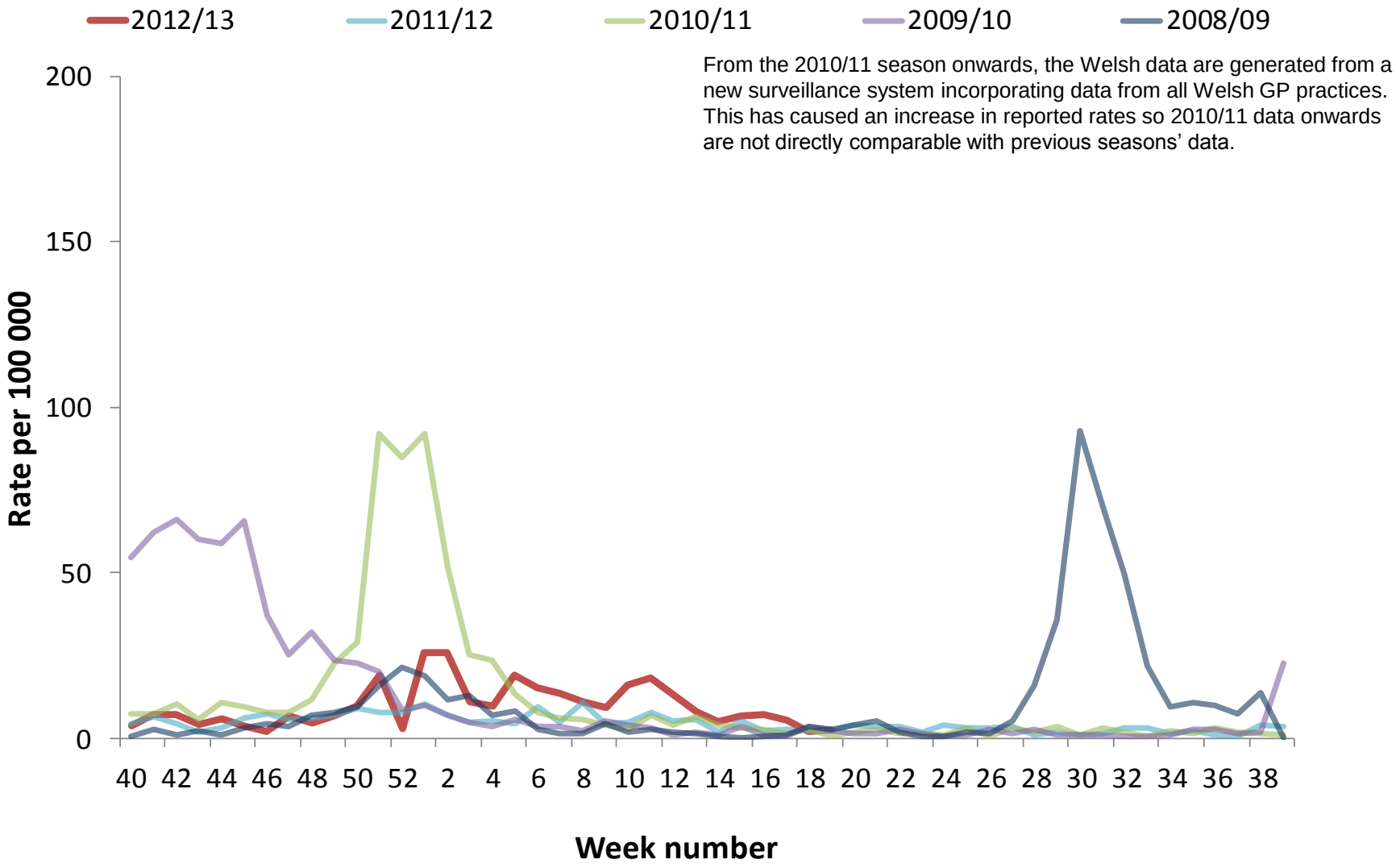
Scotland: ILI current season, by age group



NB. Scottish rates are weekly averages of daily data.

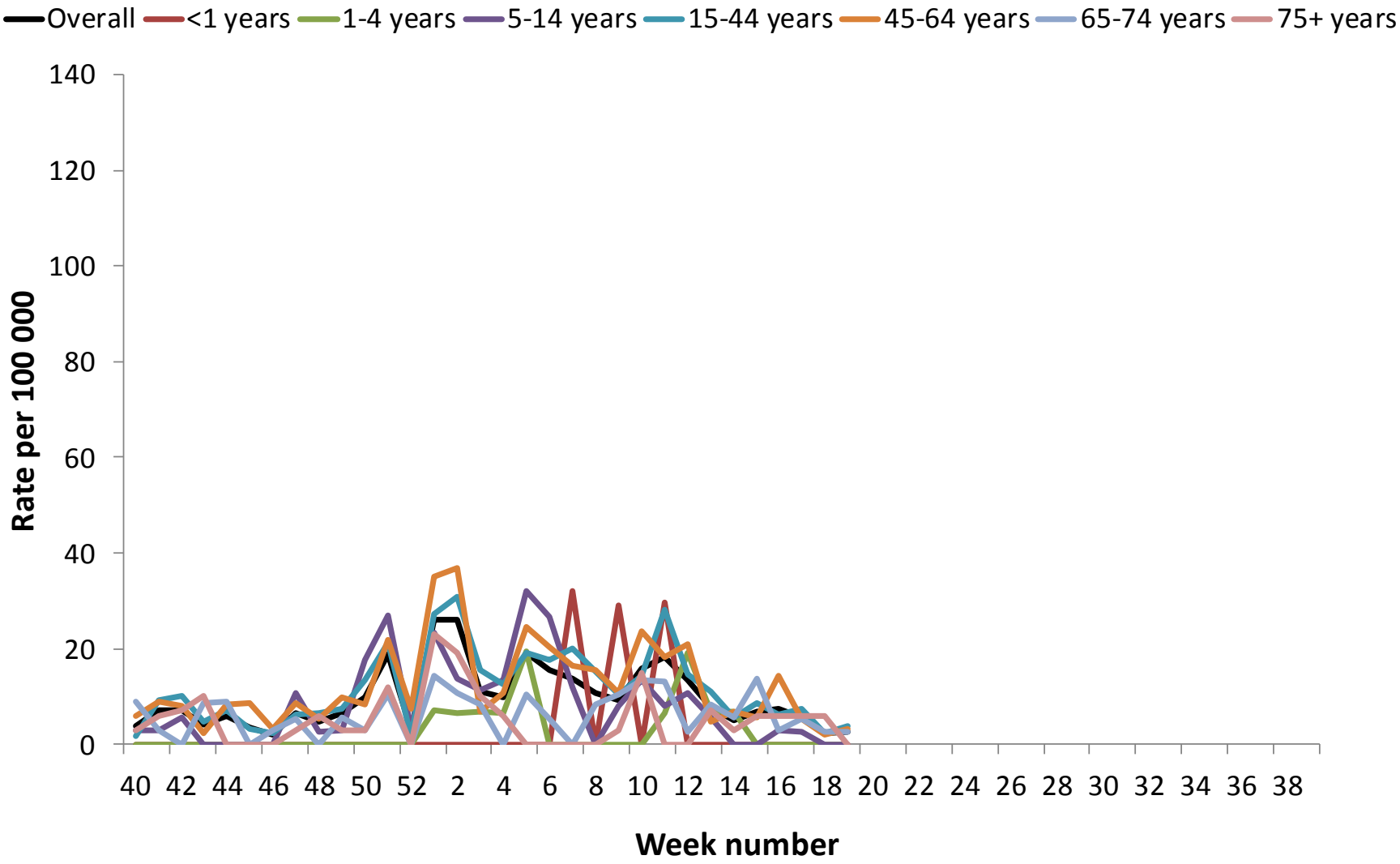
Public Health England

Wales: influenza, current and recent seasons



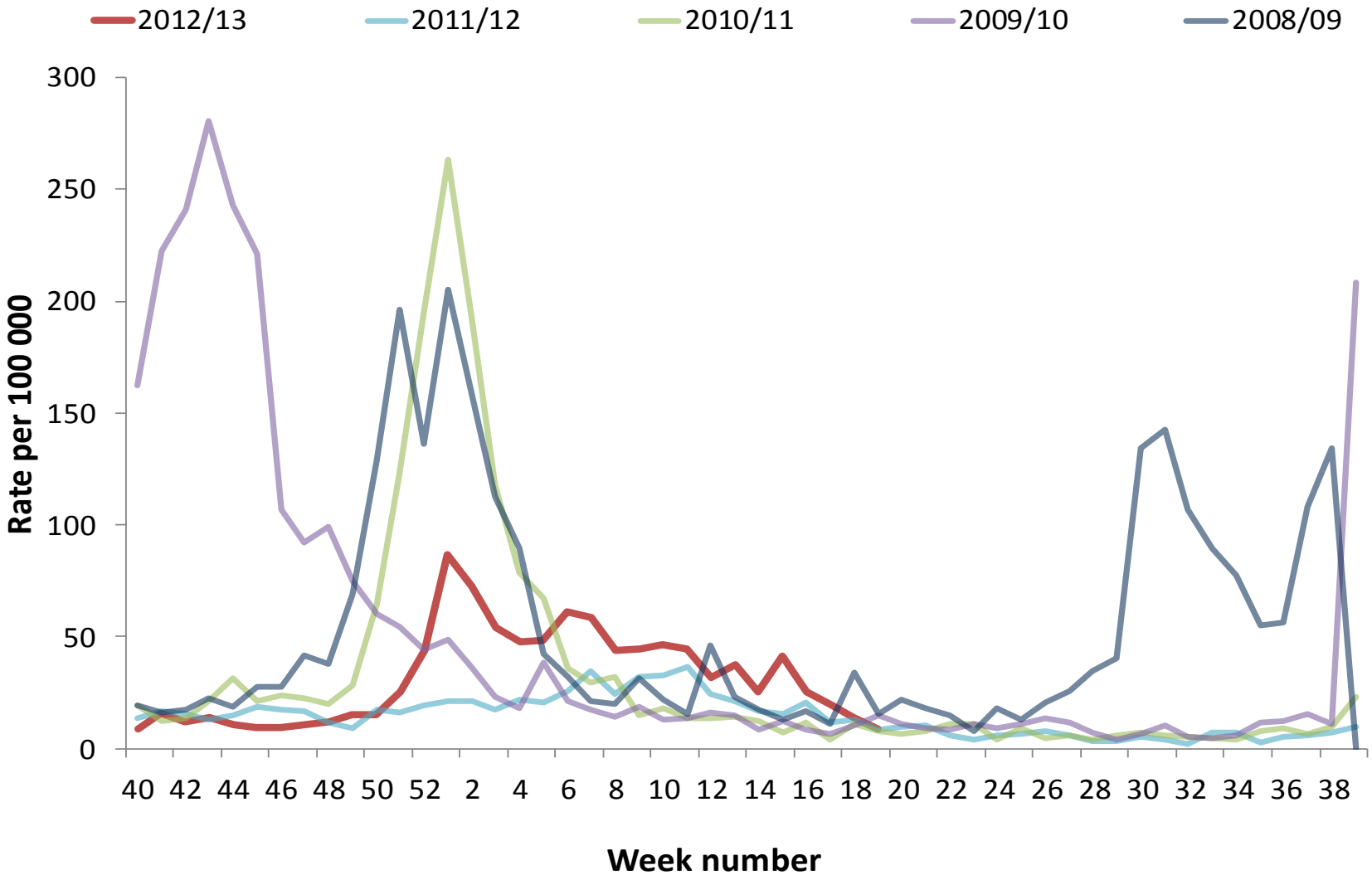
Public Health England

Wales: influenza current season, by age group



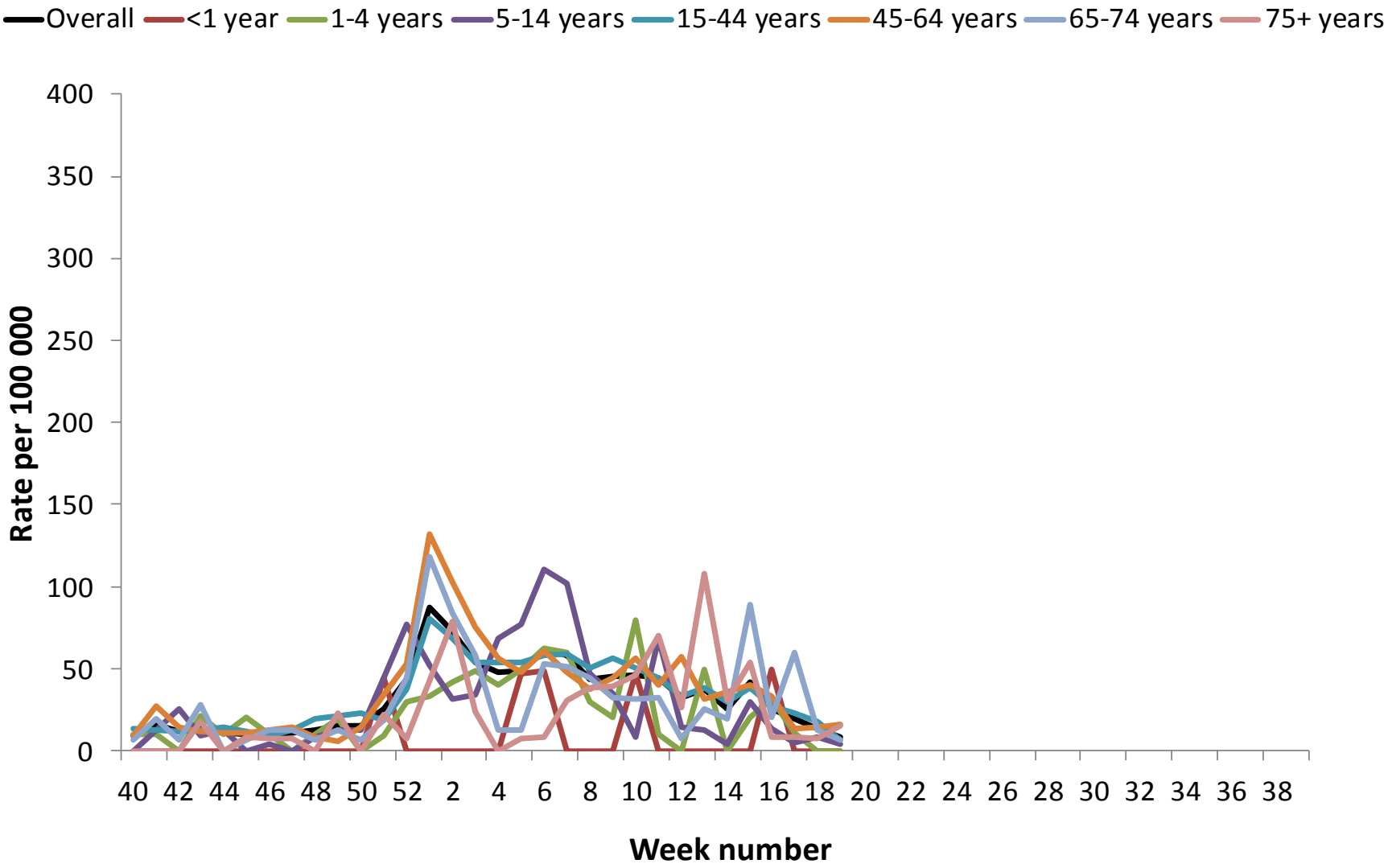
Public Health England

Northern Ireland: influenza/ILI, current and recent seasons



Public Health England

Northern Ireland: influenza/ILI current season, by age group



Public Health England

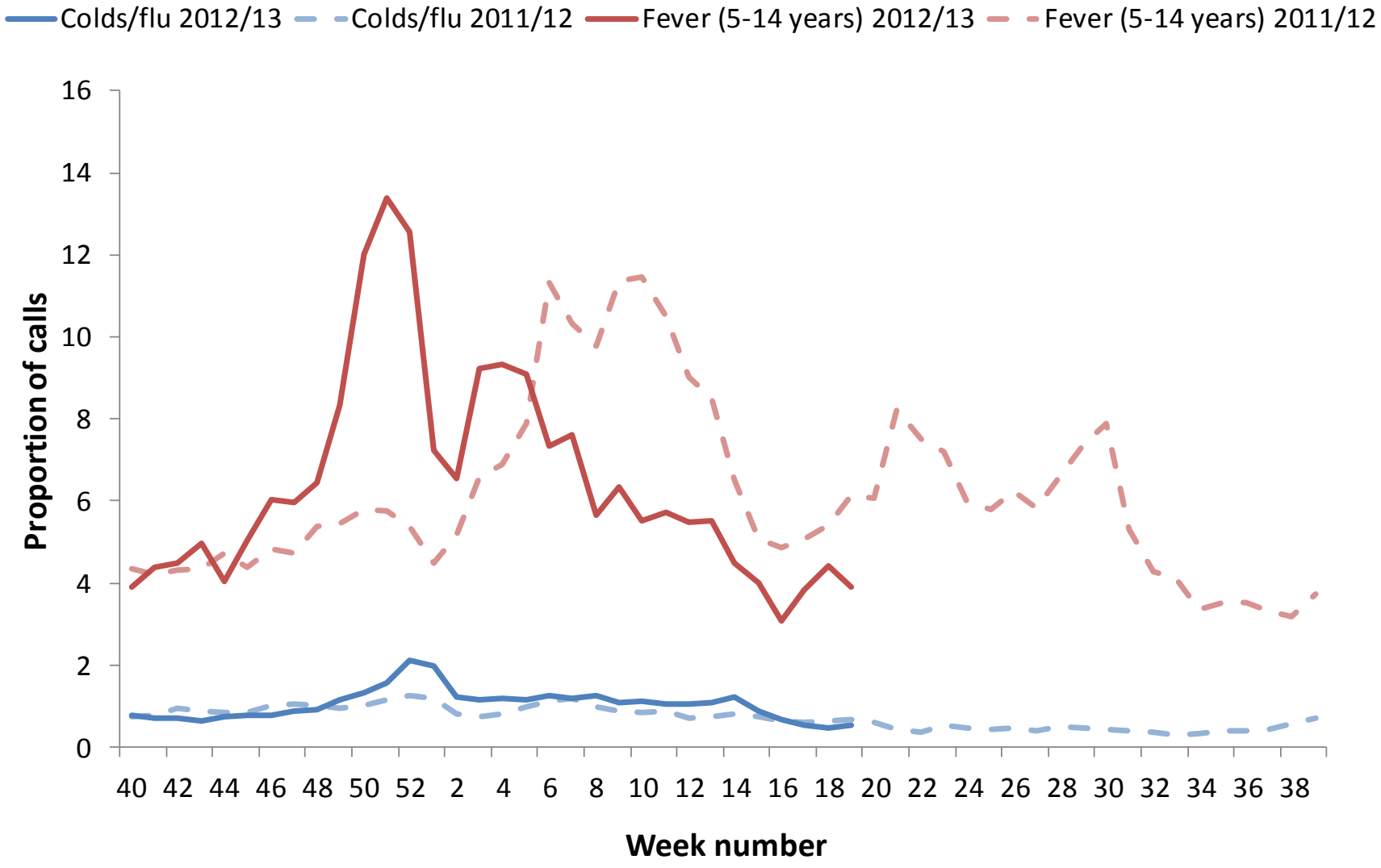
NHS Direct

- Proportion of calls for cold/flu (all ages) and fever (5-14 year group) current and recent seasons
- Proportion of calls for cold/flu current season, by age group
- Proportion of calls for cold/flu current season by region
- *Proportion of calls for fever (5-14 year age group) by region*

Not currently available

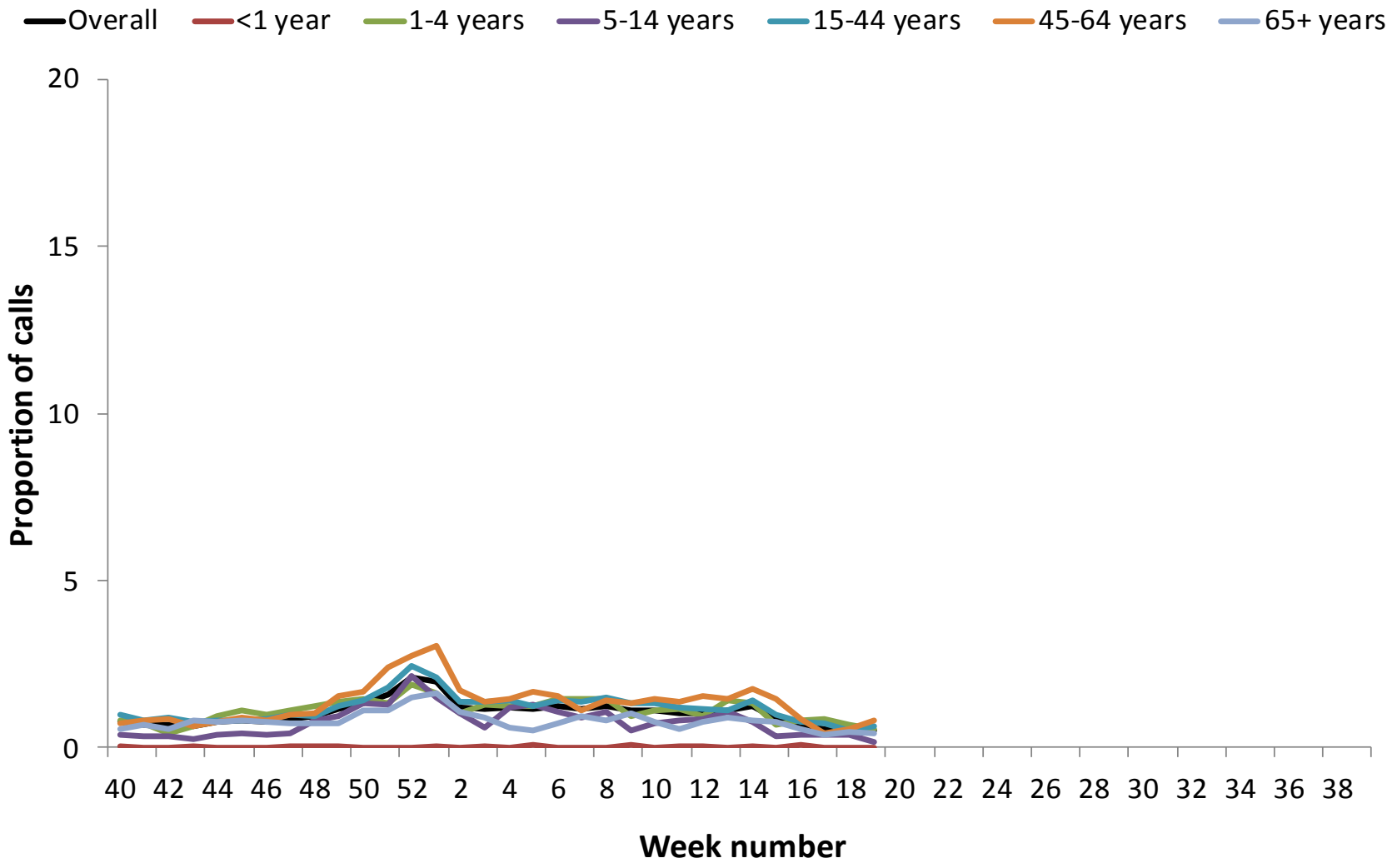
NHS D: Proportion of calls for cold/flu (all ages) and fever (5-14 year group) current and recent seasons

Public Health England



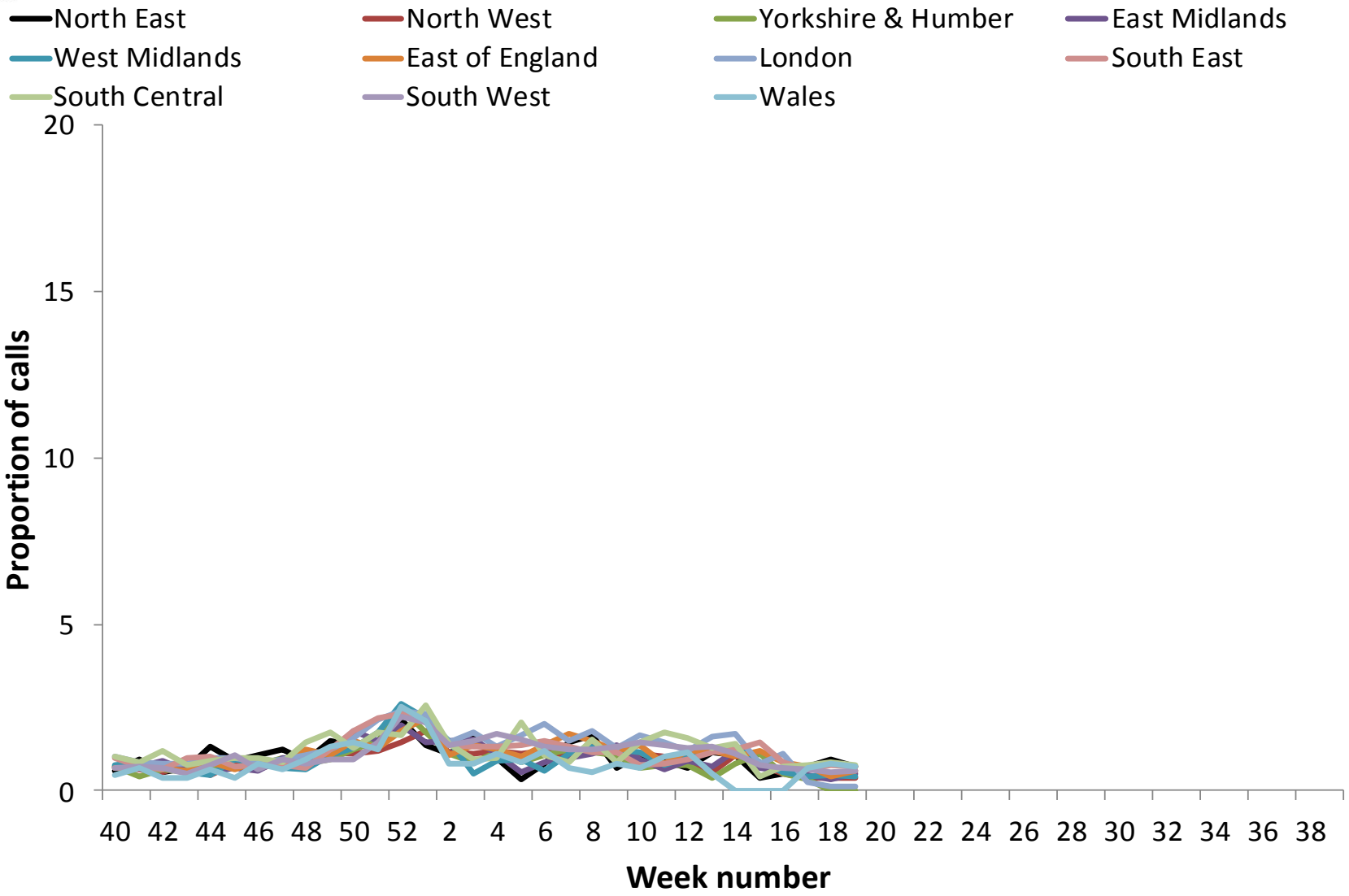
Public Health England

NHS D: Proportion of calls for cold/flu current seasons, by age group



Public Health England

NHS D: Proportion of calls for cold/flu current season by region



Public Health England

Laboratory Figures

- Data on the influenza viruses circulating comes from a number of sources. Samples can be taken from patients for diagnostic tests or for surveillance purposes.
- Select an option from below:

❖ HPA Respiratory Virus Unit – national influenza lab

❖ Datamart – postive and negative results for respiratory viruses reported by regional labs

❖ LabBase – positive results reported by regional labs

❖ Sentinel virological surveillance – GP-based systems

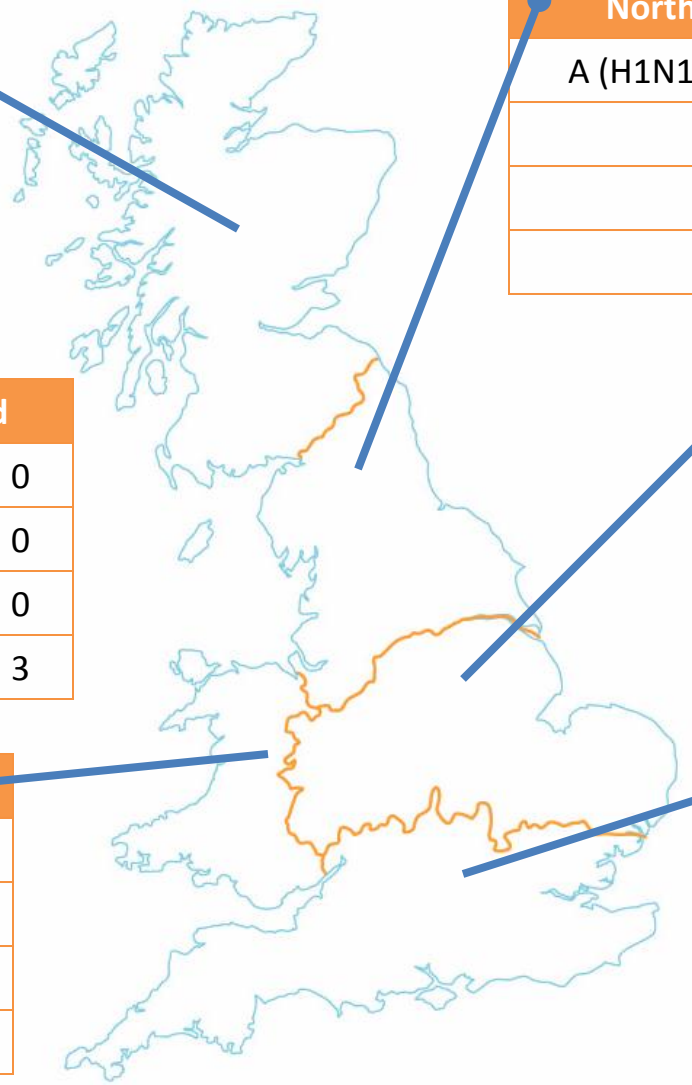
Public Health England

PHE Respiratory Virus Unit

- Map of cumulative detections of influenza by PHE RVU
- Influenza viruses characterised by PHE RVU, by subtype
- Samples from community sources confirmed as positive for influenza by PHE RVU, by age group
- Samples from hospital sources confirmed as positive for influenza by PHE RVU, by age group

RVU: Map of cumulative detections of influenza, by subtype

Public Health England



Scotland	
A (H1N1)pdm09:	7
A (H1):	0
A (H3):	2
B:	0

Northern England	
A (H1N1)pdm09:	7
A (H1):	0
A (H3):	114
B:	109

Northern Ireland	
A (H1N1)pdm09:	0
A (H1):	0
A (H3):	0
B:	3

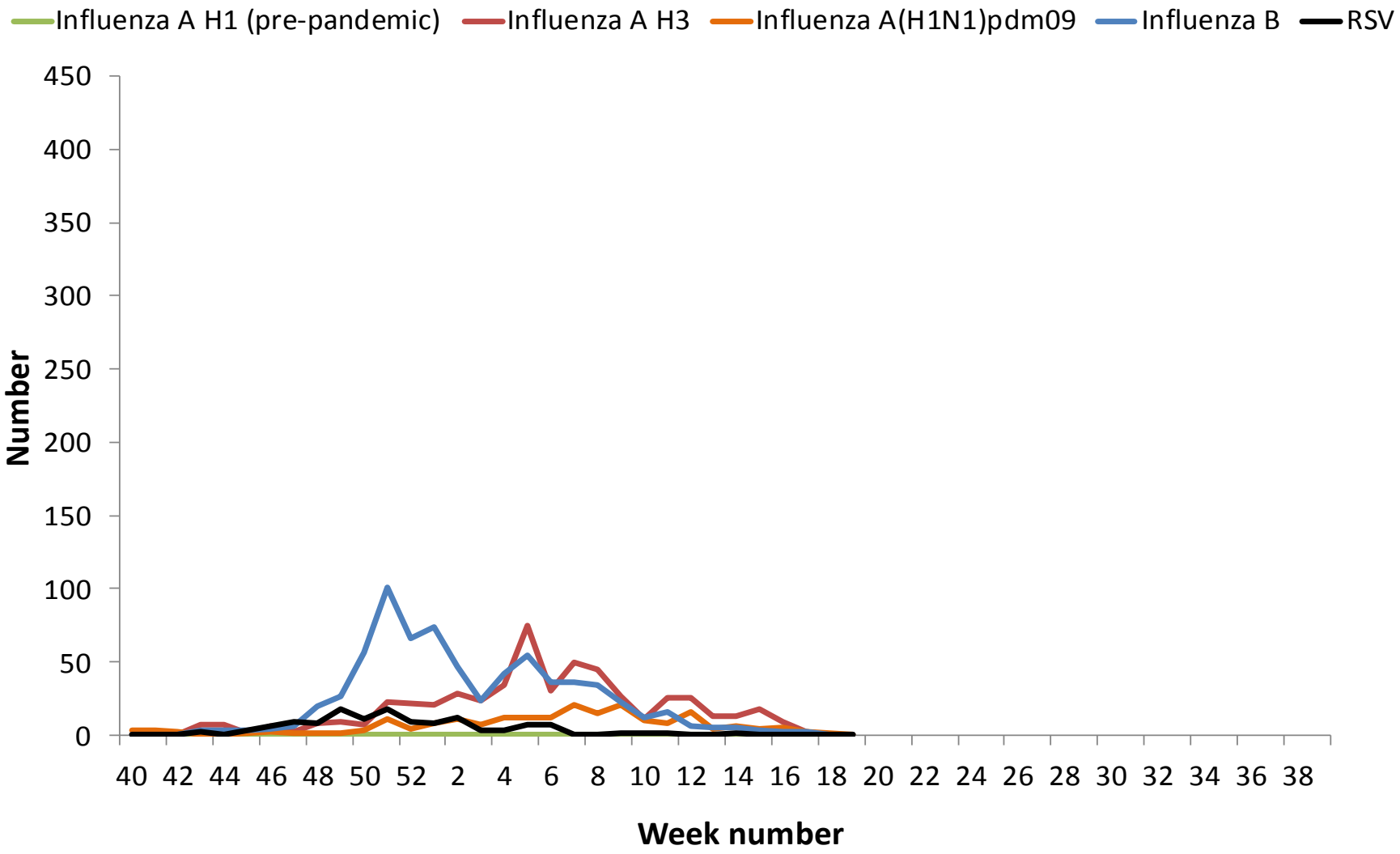
Central England	
A (H1N1)pdm09:	21
A (H1):	0
A (H3):	60
B:	109

Wales	
A (H1N1)pdm09:	0
A (H1):	0
A (H3):	0
B:	0

Southern England	
A (H1N1)pdm09:	105
A (H1):	0
A (H3):	253
B:	432

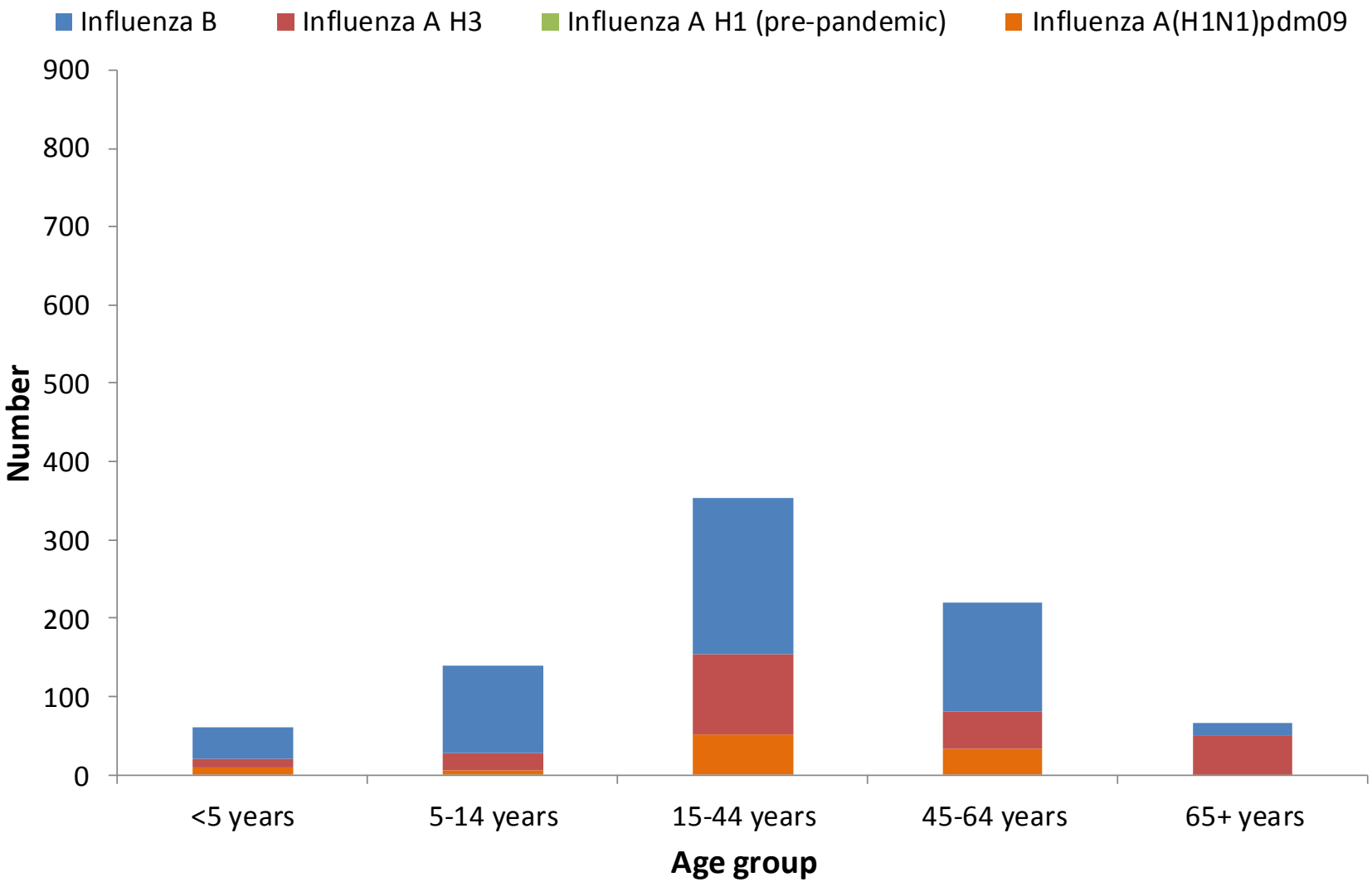
Public Health England

RVU: Influenza viruses characterised, by subtype



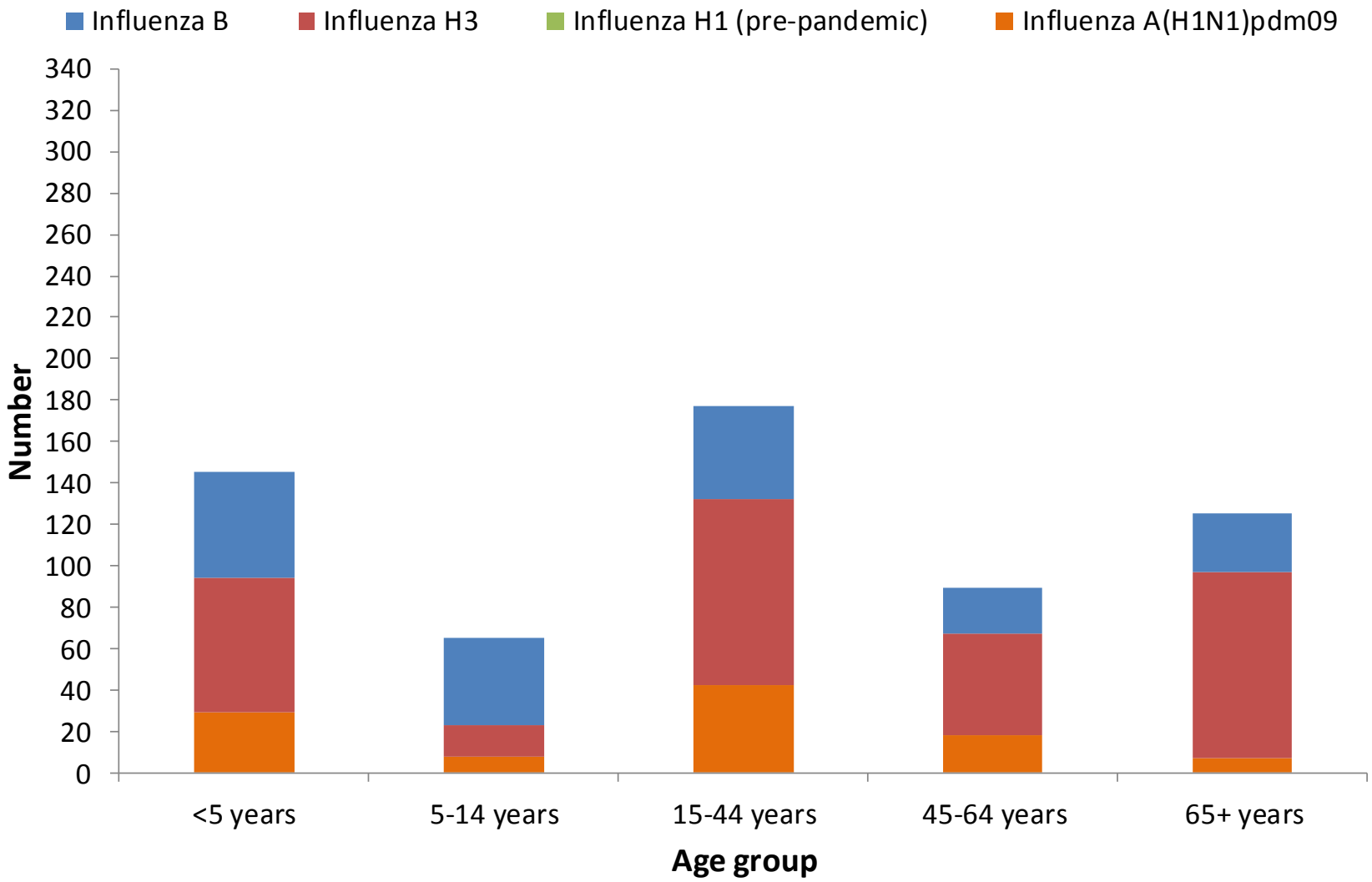
Public Health England

RVU: Samples from community sources confirmed as positive for influenza, by age group



Public Health England

RVU: Samples from hospital sources confirmed as positive for influenza, by age group



Public Health England

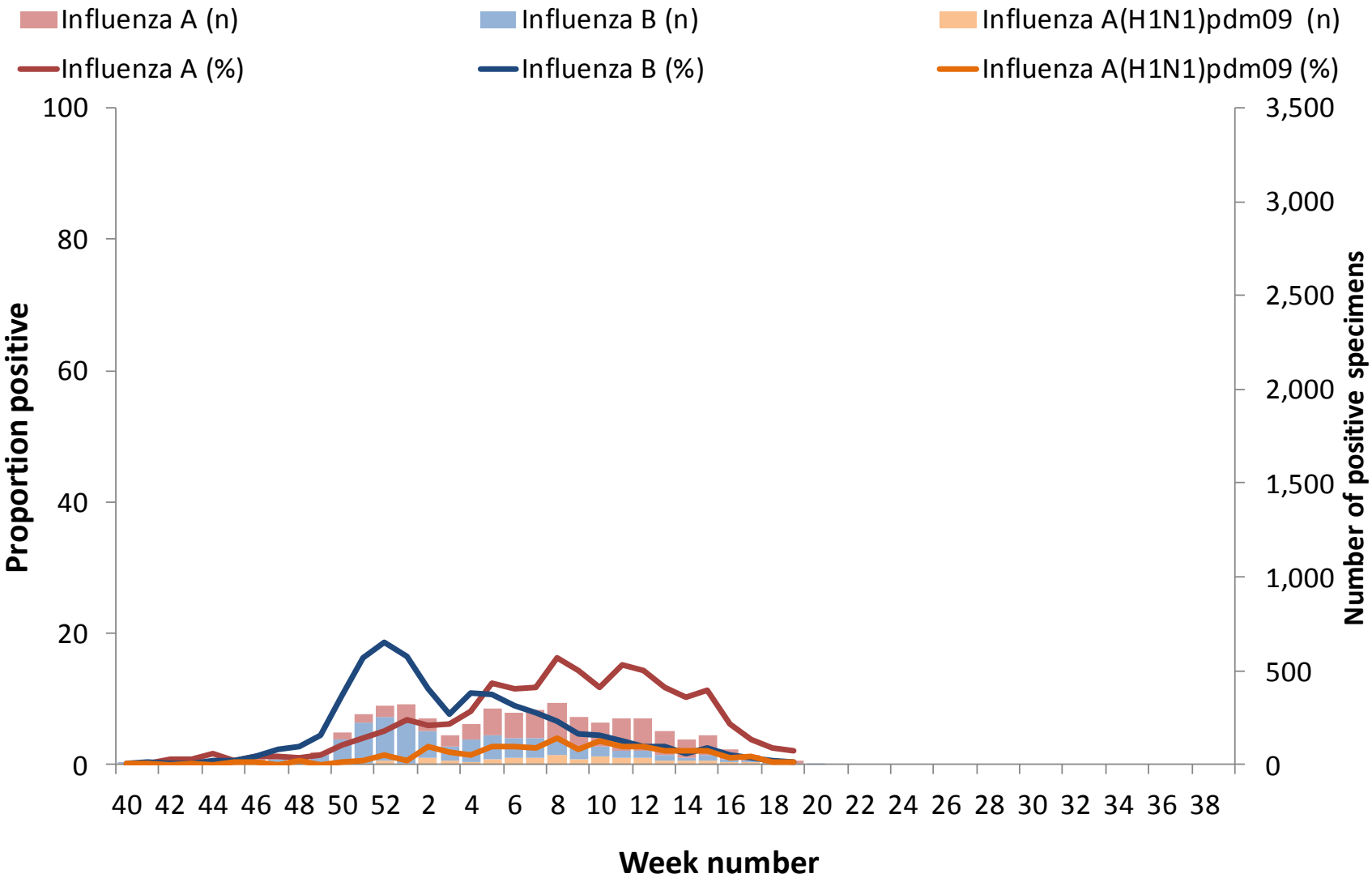
Datamart

The DataMart system incorporates data from all tests on respiratory samples from PHE regional laboratories.

- Number and proportion of samples positive for influenza by type
- *Proportion of samples positive for influenza H1N1 (2009), by age group* **Not currently available**
- *Proportion of samples positive for influenza A, by age group* **Not currently available**
- *Proportion of samples positive for influenza B, by age group* **Not currently available**
- Number and proportion of samples positive for other viruses
- Proportion of samples positive for RSV, by age group

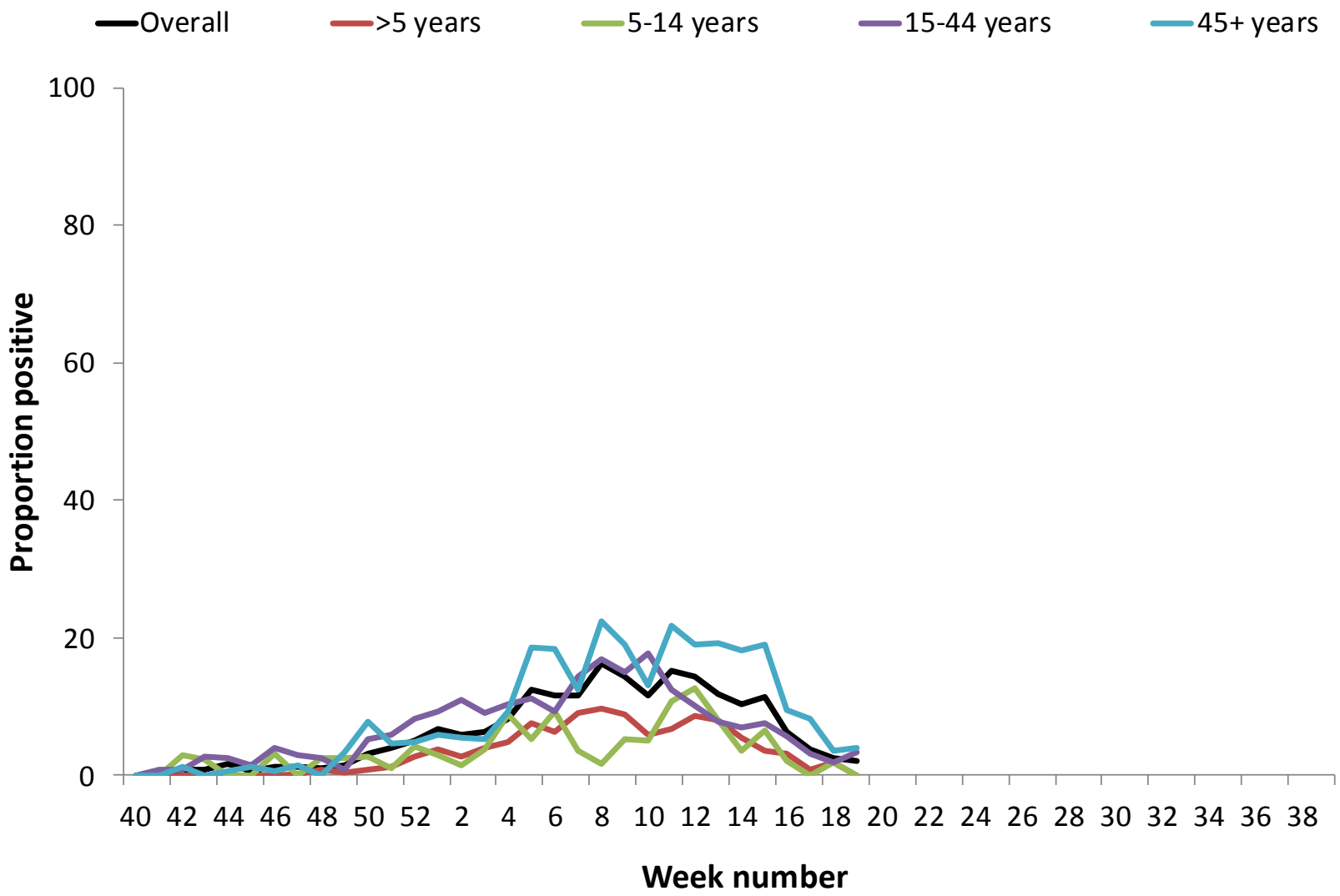
DataMart: Number and proportion of samples positive for influenza, by type

Public Health England



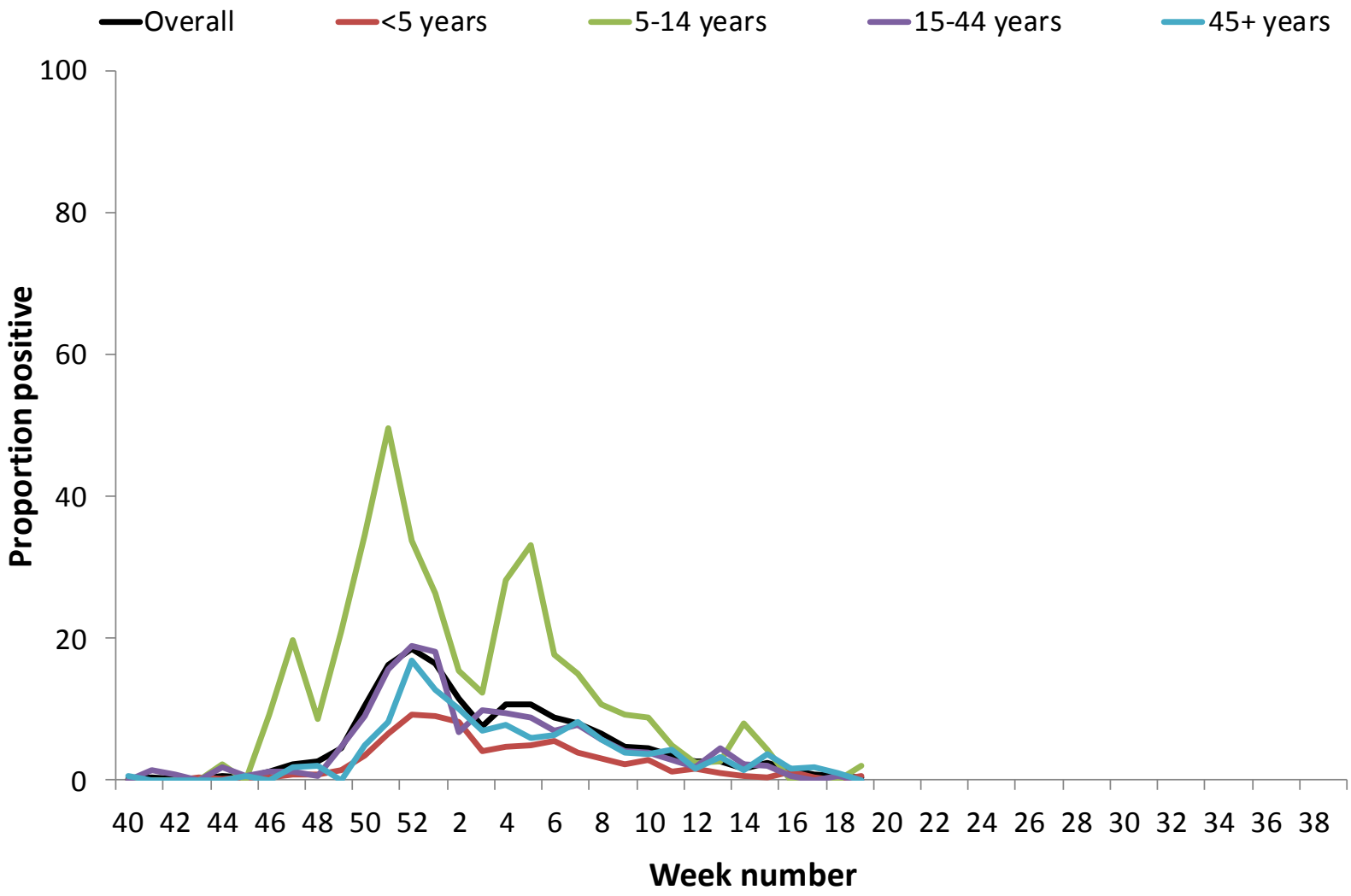
Public Health England

DataMart: Proportion of samples positive for influenza A (non-pandemic), by age group



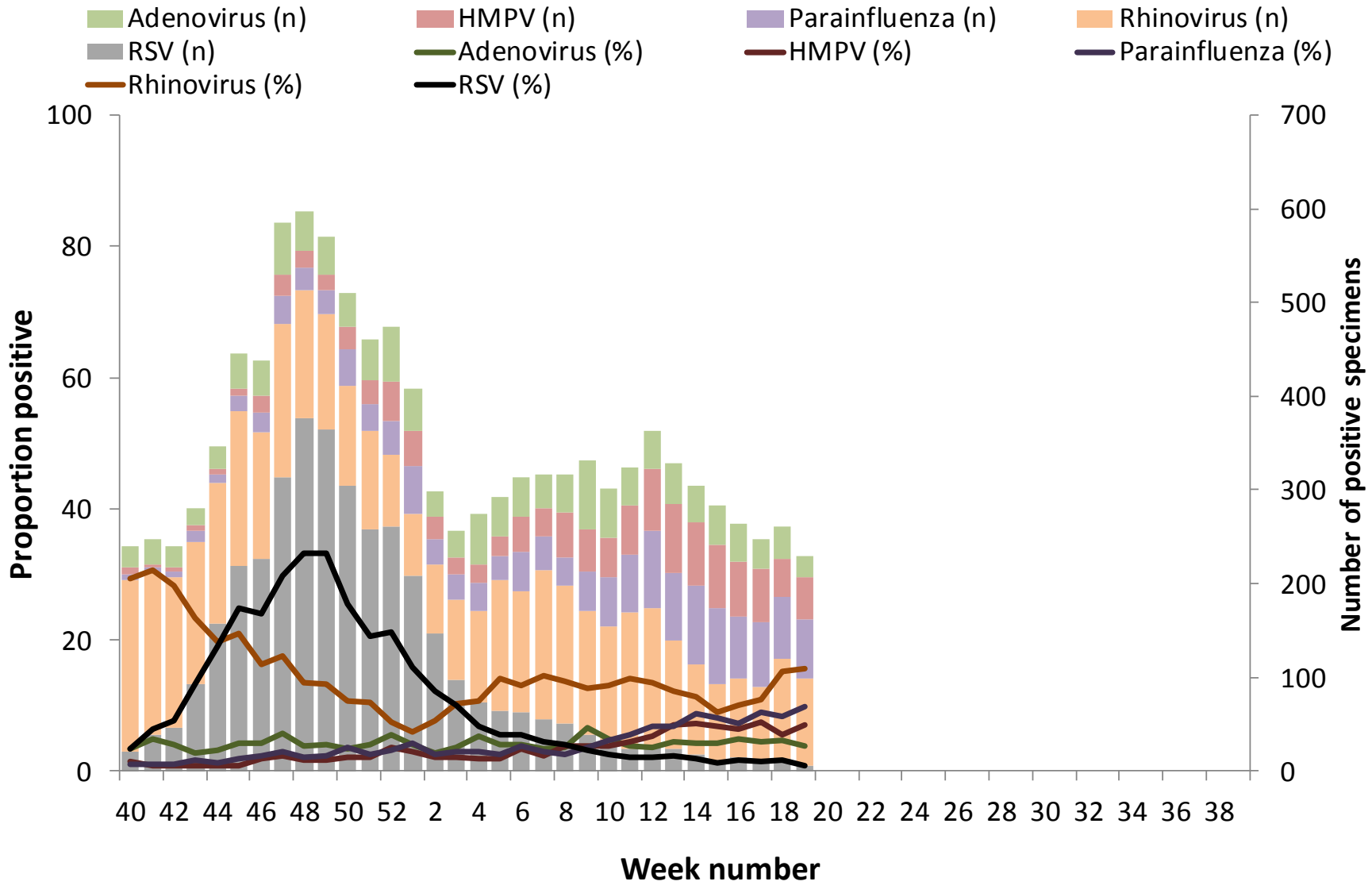
DataMart: Proportion of samples positive for influenza B, by age group

Public Health England



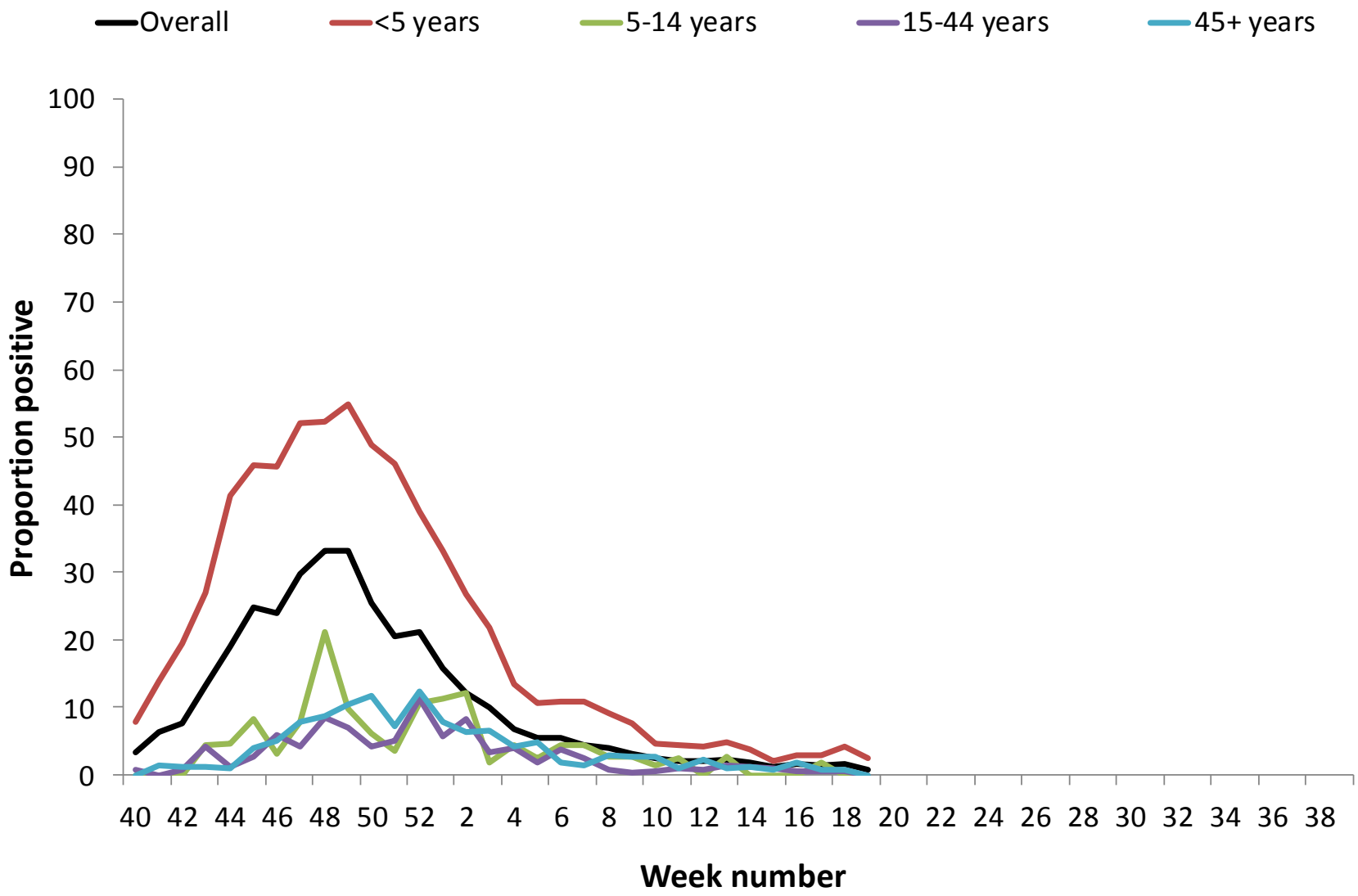
Public Health England

DataMart: Number and proportion of samples positive for other viruses



Public Health England

DataMart: Proportion of samples positive for RSV, by age group



Public Health England

LabBase

Approximately 230 laboratories across England and Wales report positive results of tests into a national database (LabBase).

The weekly number of positive results for influenza A and B (subtype information is not available) is displayed by week of report.

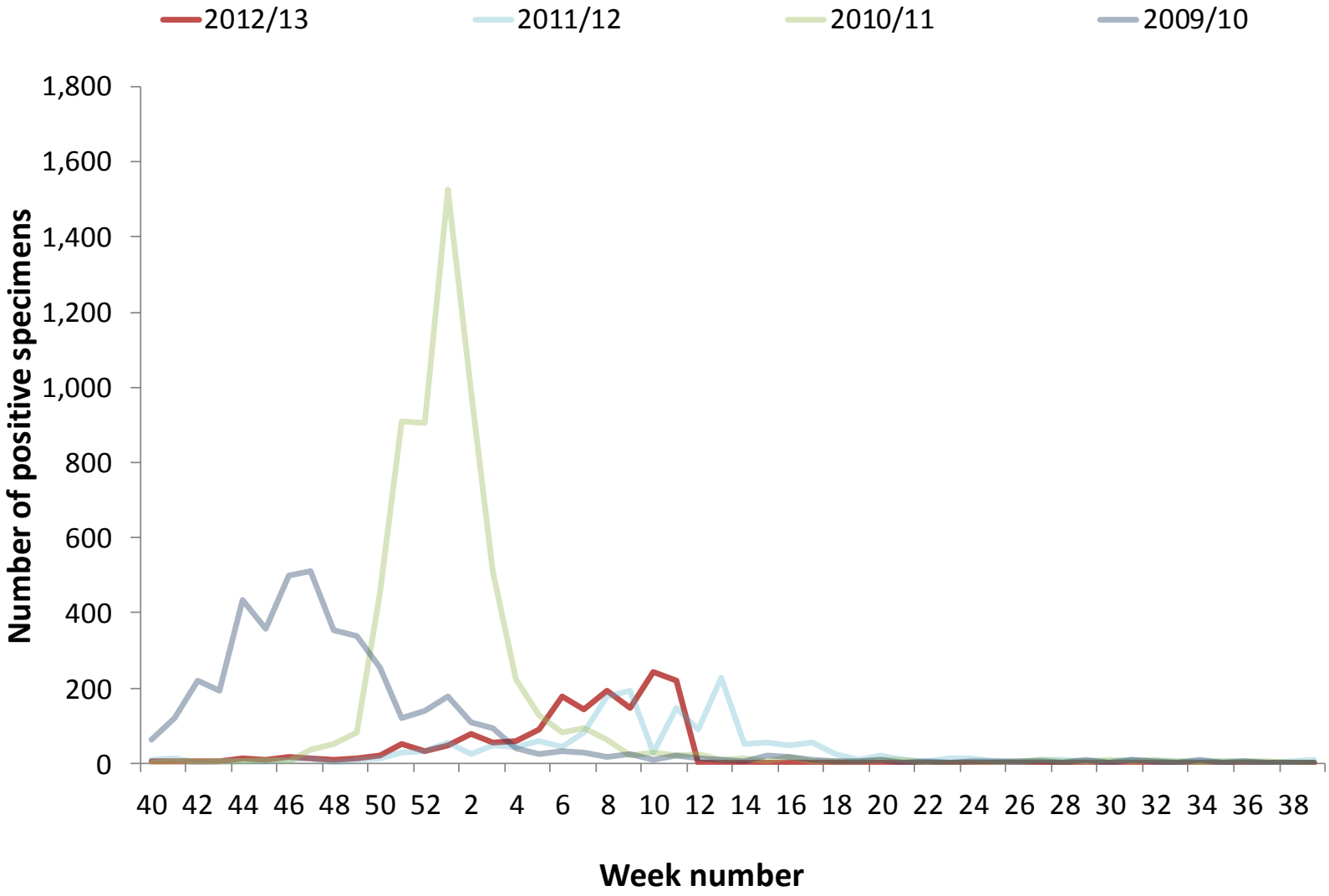
As of 10 October 2010, it became obligatory for labs to report influenza positive results to the HPA/PHE, which may have an effect on the number of reports.

Further data are available on the 'Other laboratory data' excel sheet in the Related Information box of the HPA Seasonal Influenza webpage

- Number of specimens positive for influenza A, current and recent seasons
- Number of specimens positive for influenza B, current and recent seasons

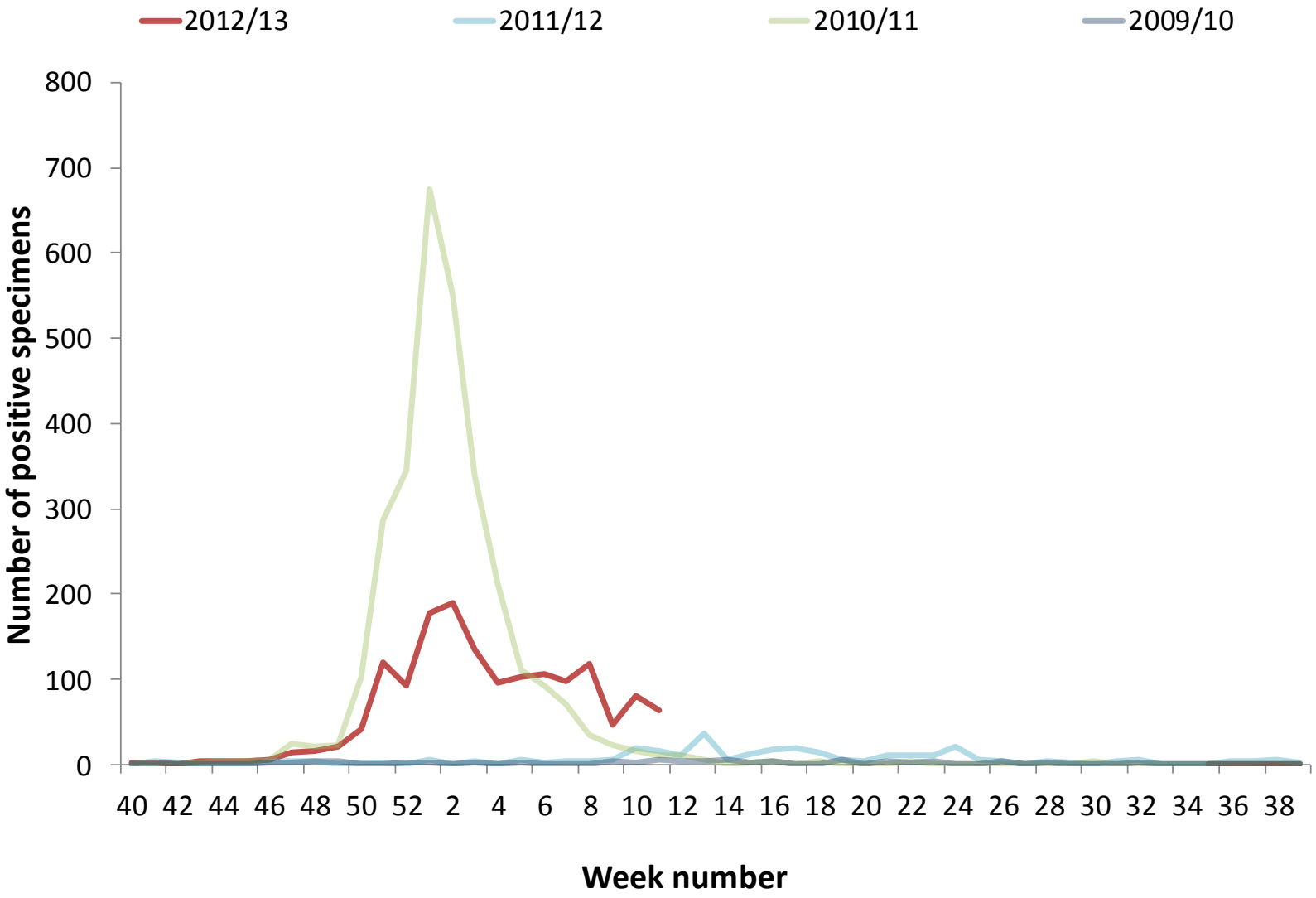
Public Health England

LabBase: Number of specimens positive for influenza A, current and recent seasons



Public Health England

LabBase: Number of specimens positive for influenza B, current and recent seasons



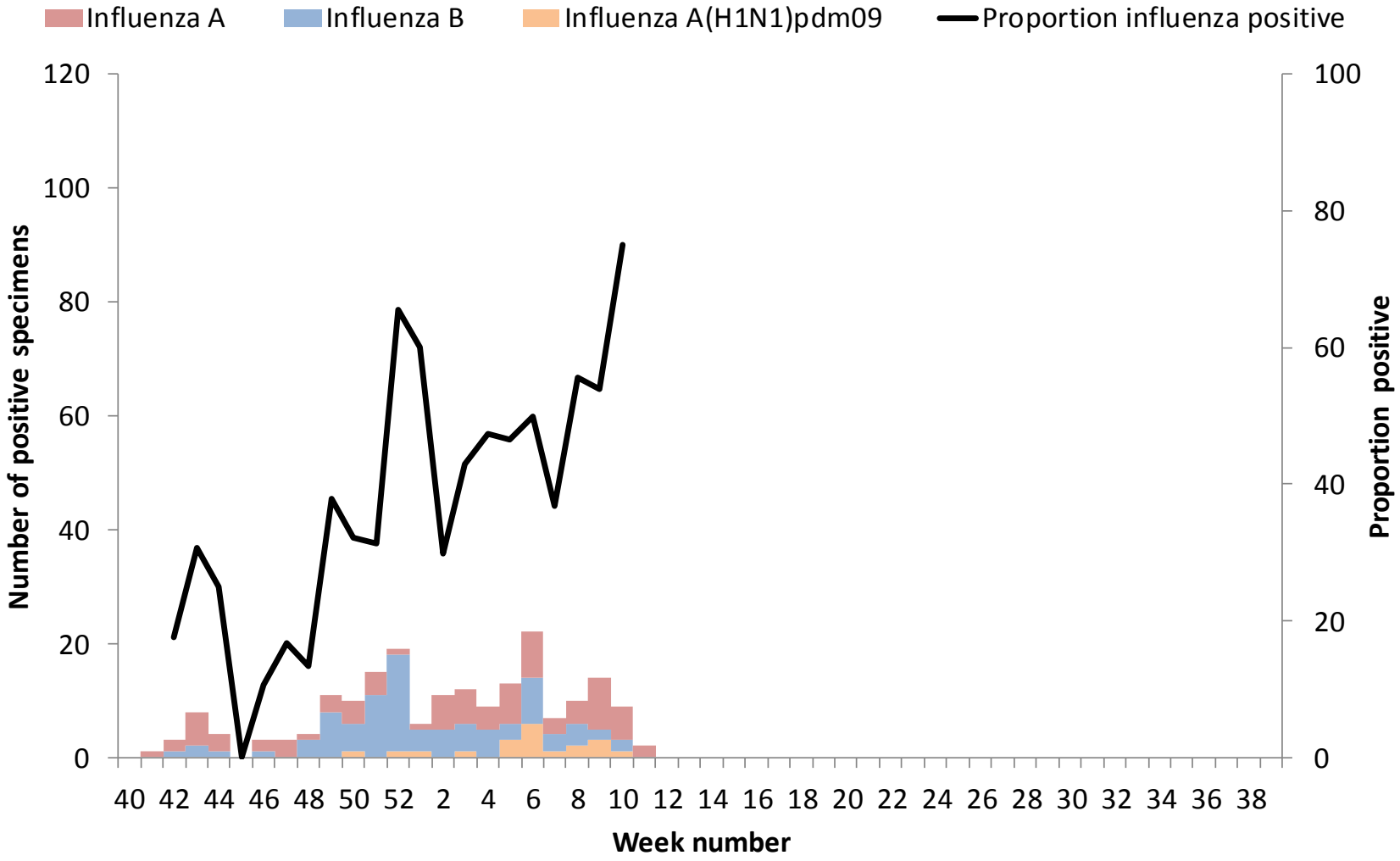
Public Health England

Sentinel virological surveillance

- Number and proportion of specimens positive for influenza, PHE/RCGP scheme
- Number and proportion of specimens positive for influenza, PHE/SMN scheme
- Number and proportion of specimens positive for influenza, PHE/RCGP and PHE/SMN schemes combined
- Proportion of specimens positive for influenza, PHE/RCGP and PHE/SMN schemes combined, by age group

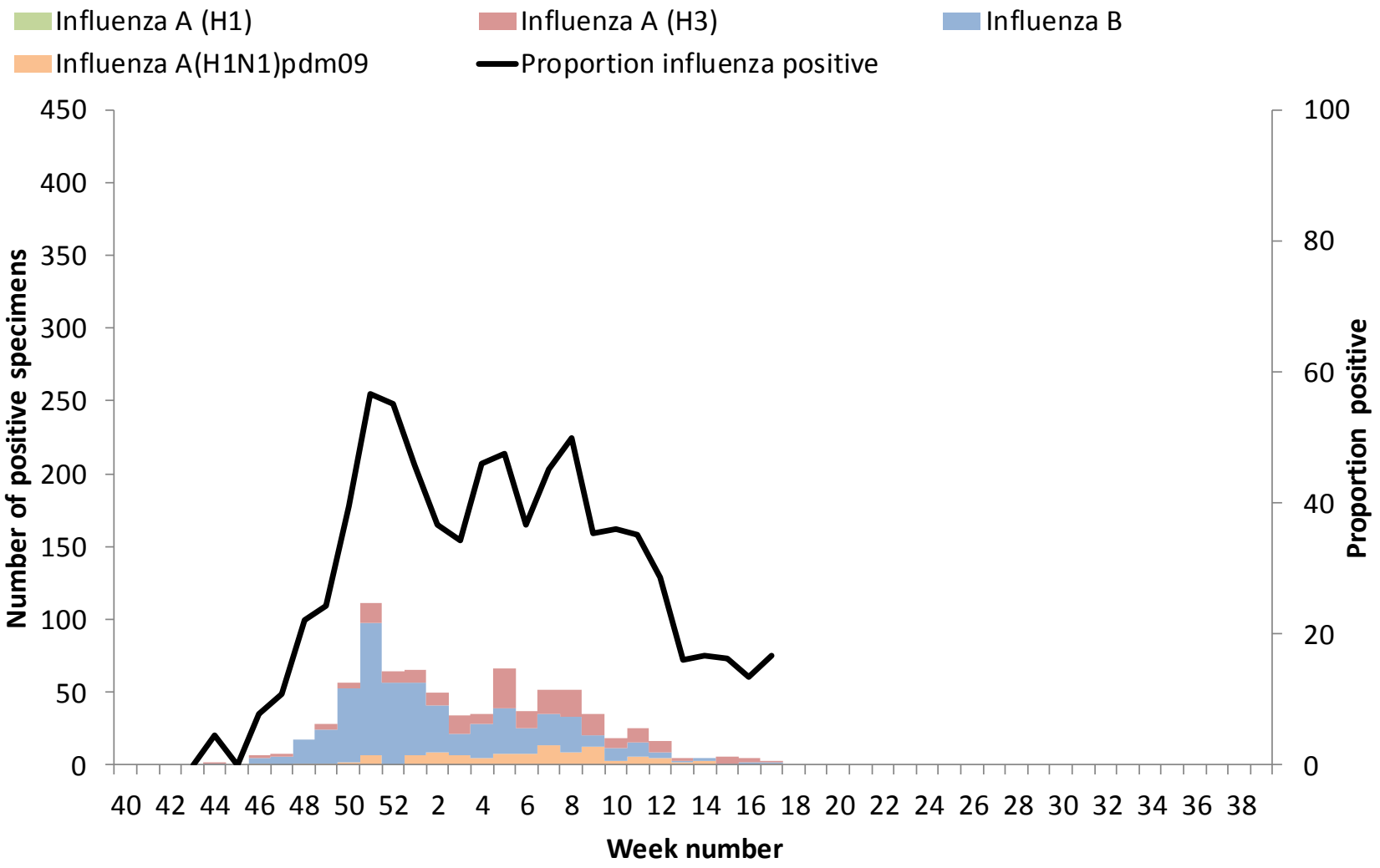
Public Health England

Number and proportion of specimens positive for influenza, PHE/SMN scheme



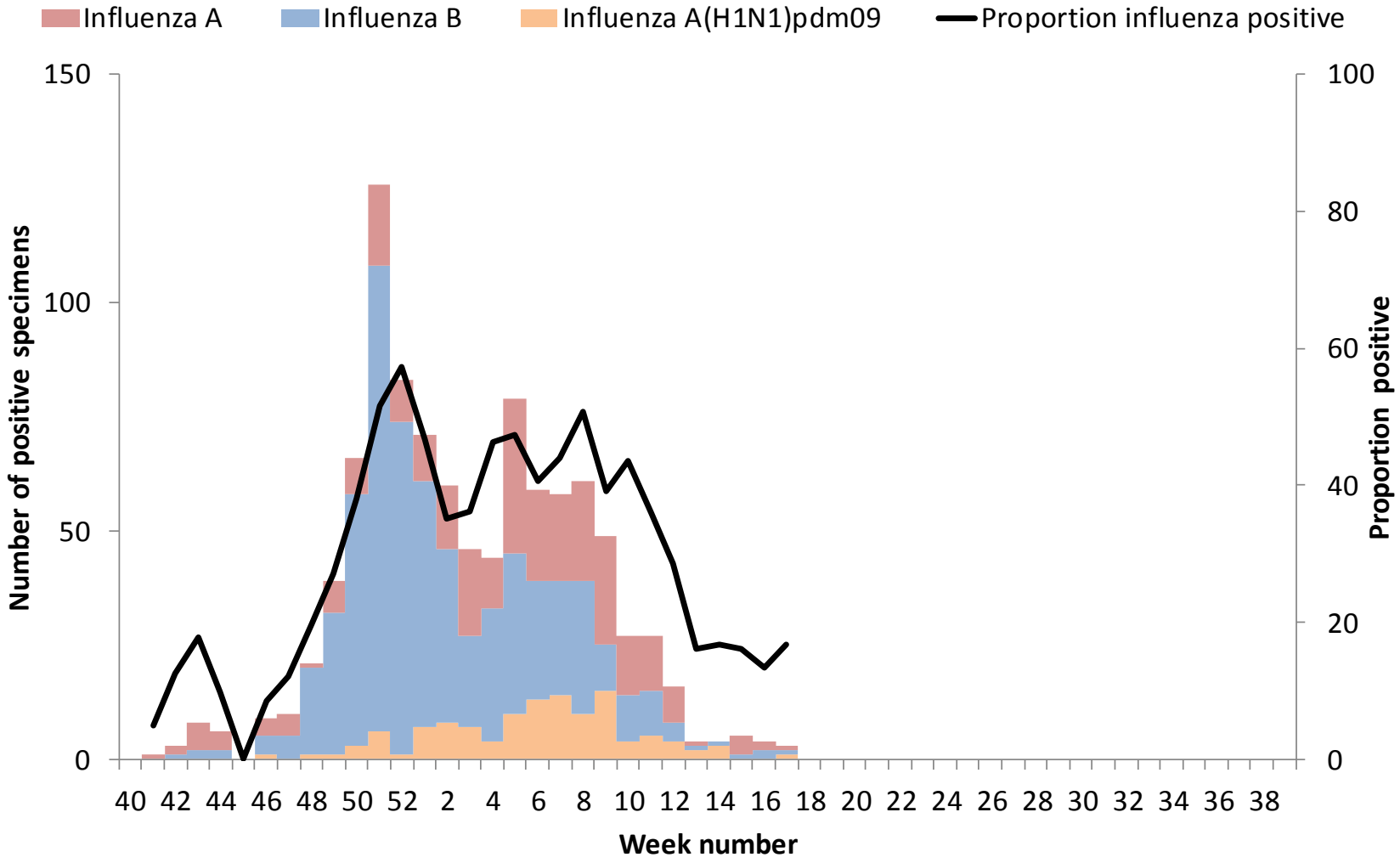
Number and proportion of specimens positive for influenza, PHE/RCGP scheme

Public Health England



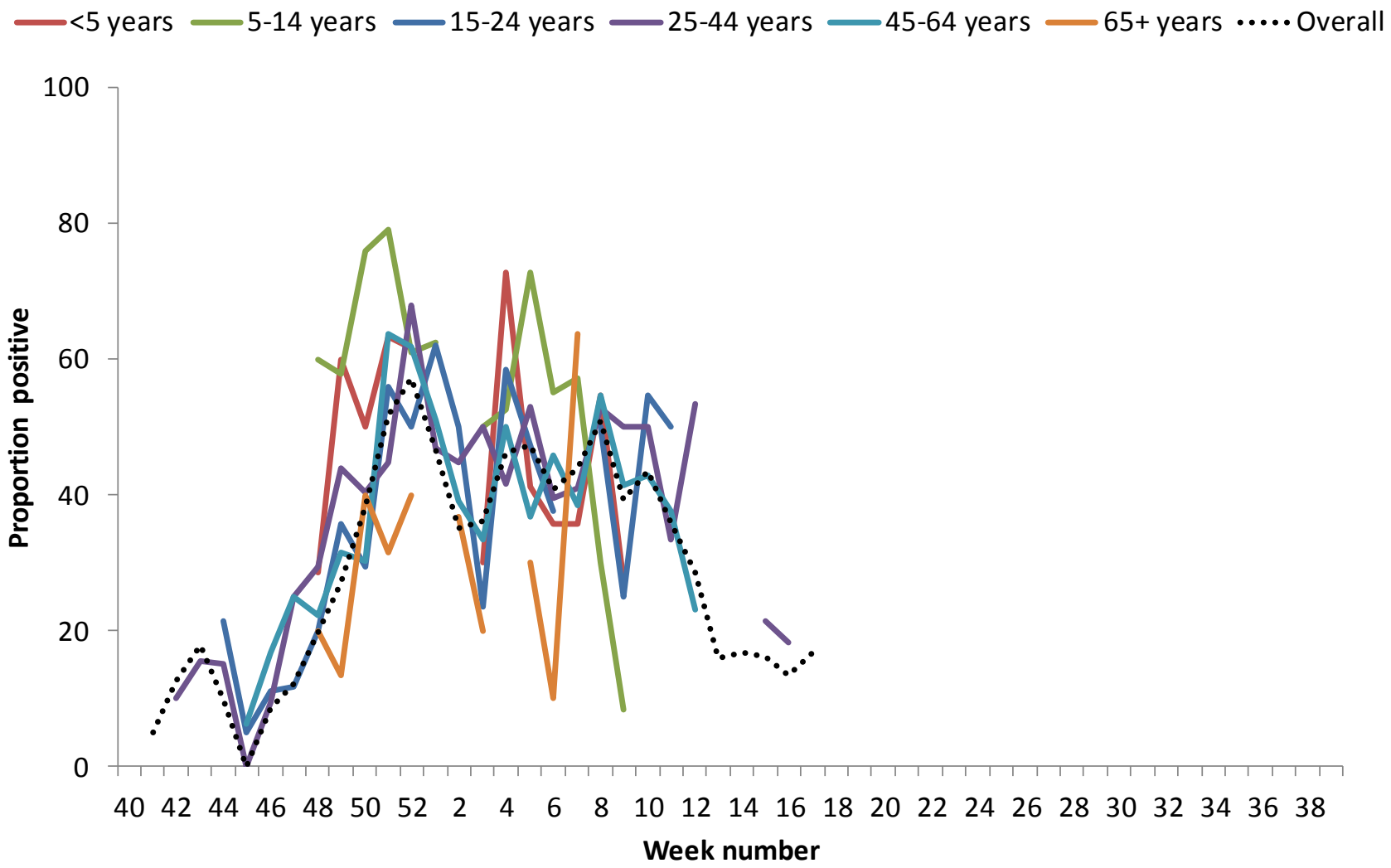
Public Health England

Number and proportion of specimens positive for influenza, PHE/RCGP and PHE/SMN schemes combined



Public Health England

Proportion of specimens positive for influenza, PHE/RCGP and PHE/SMN schemes combined, by age group



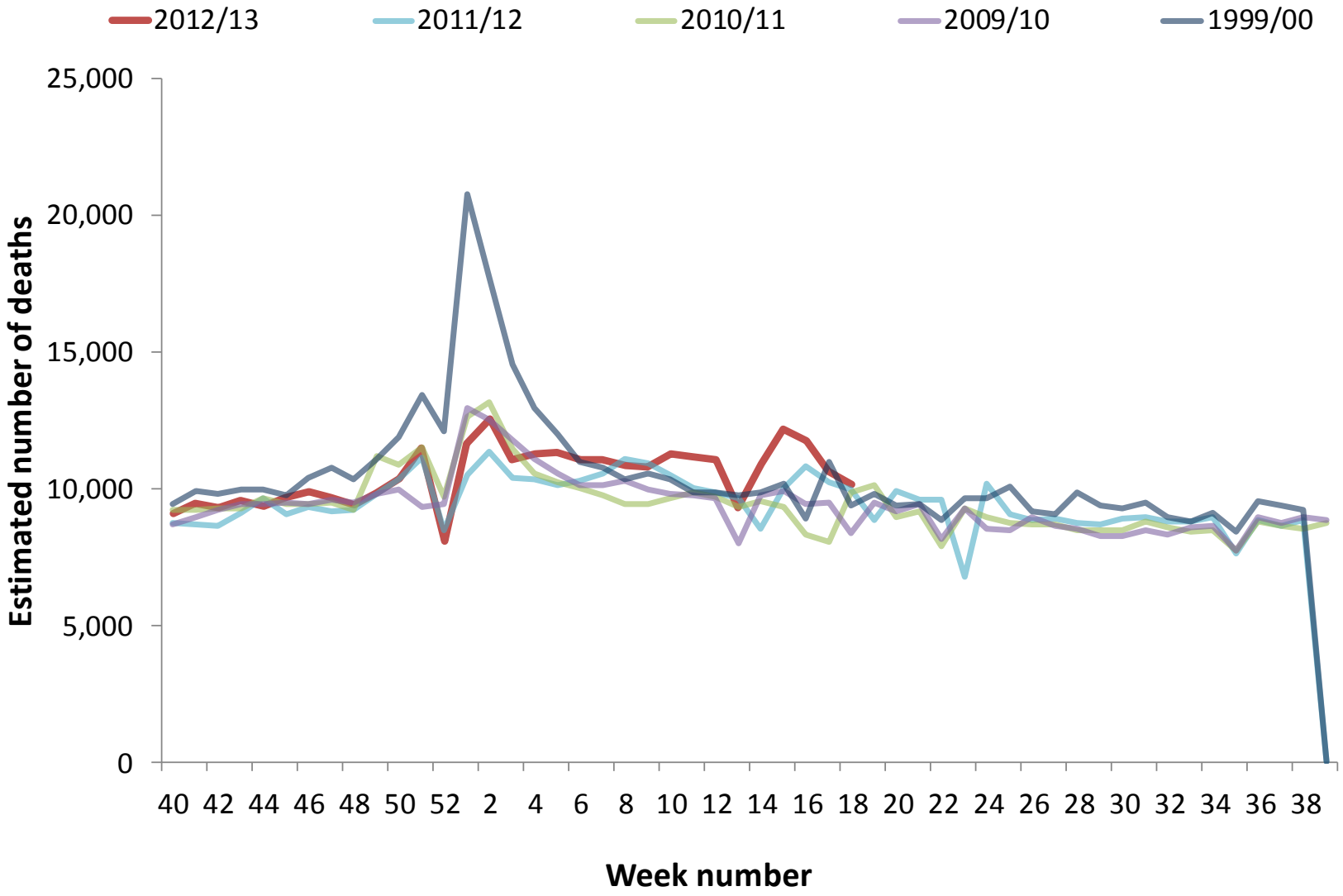
Public Health England

Mortality figures

- Estimated number of registered deaths (all causes) current and recent seasons (ONS)
- Estimated number of registered deaths (respiratory causes) current and recent seasons (ONS)
- Excess mortality (all causes)

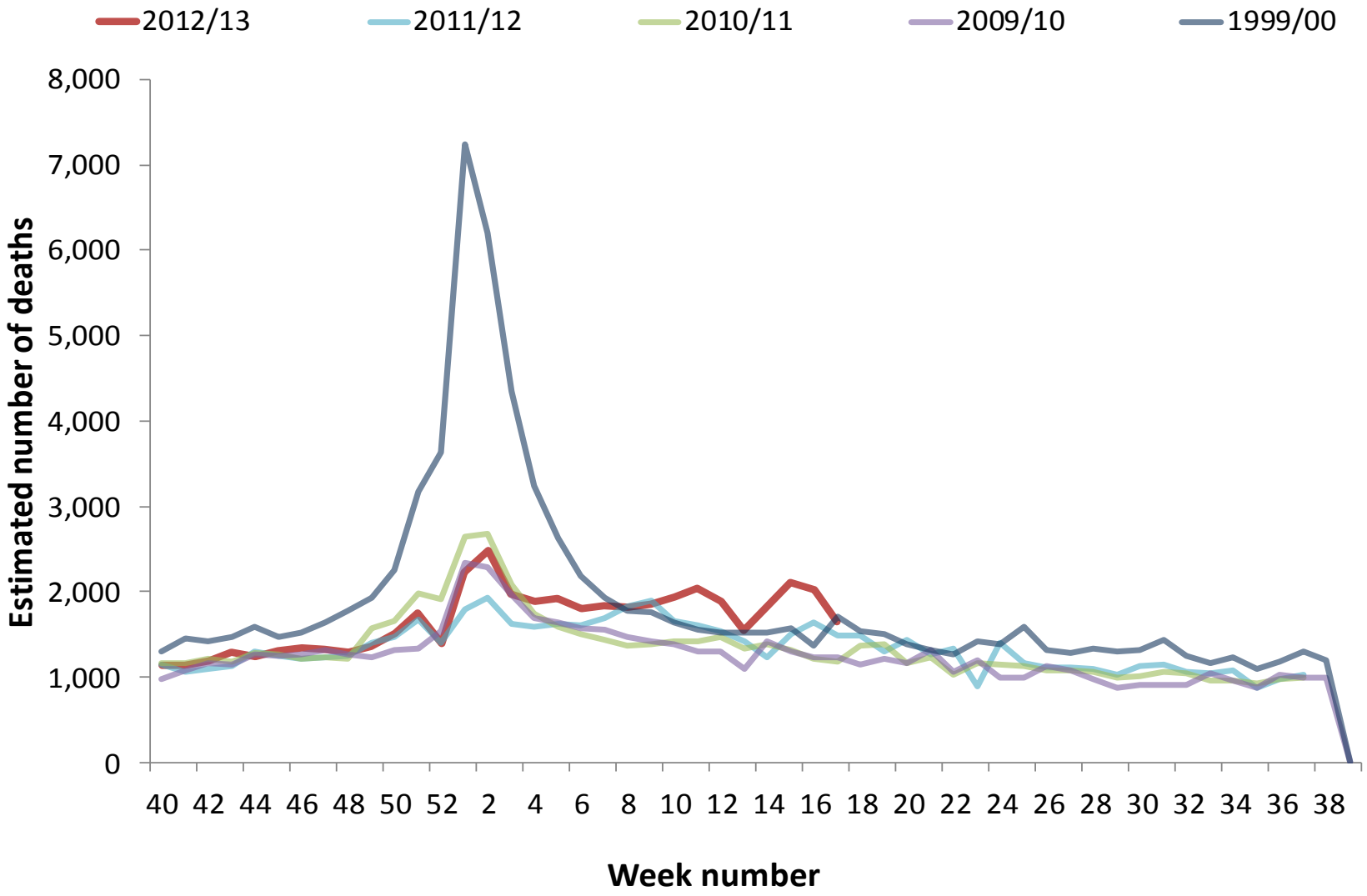
Public Health England

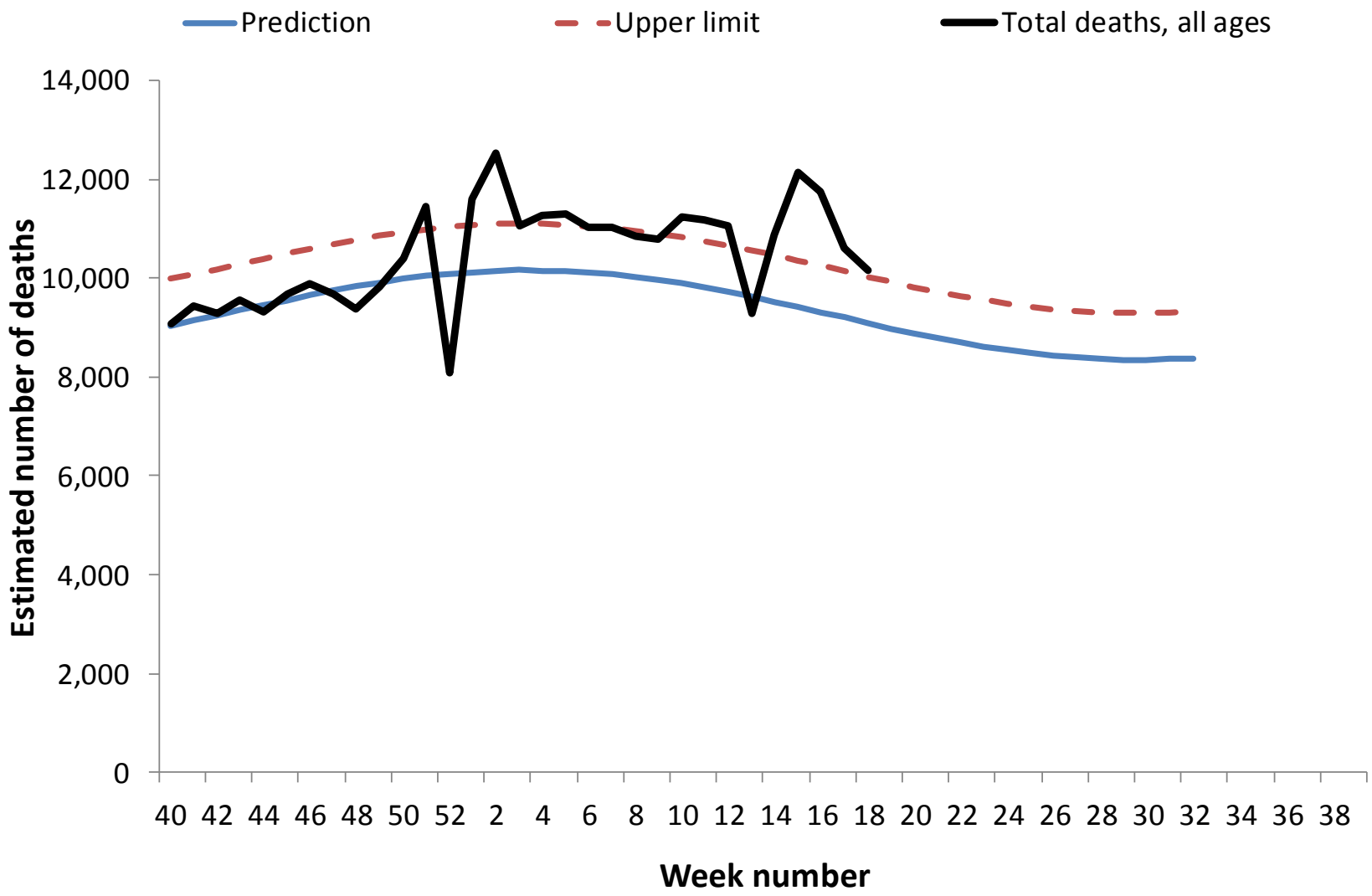
Estimated number of registered deaths (all causes) current and recent seasons (ONS)



Public Health England

Estimated number of registered deaths (respiratory causes) current and recent seasons (ONS)



Public Health England

Excess mortality (all causes)