

PHE Influenza Surveillance graphs

- This slideshow covers <u>seasonal influenza data sources</u>, 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 <u>surveillance systems</u>. The <u>National Influenza Report</u> 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 respcidsc@phe.gov.uk
- Primary care GP-based surveillance, outbreaks
- <u>Microbiological</u> Sentinel and non-sentinel laboratory figures
- <u>Morbidity and mortality</u> confirmed influenza hospitalisations and ICU admissions, excess all-cause mortality estimates
- <u>Vaccine uptake</u> seasonal influenza vaccine uptake in targeted groups



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:
- <u>RCGP</u> Royal College of General Practitioners, a sentinel GP system in England and Wales.
- <u>Devolved administrations</u> sentinel GP networks in Northern Ireland,
 Scotland and Wales
- Outbreaks acute respiratory outbreaks reported across the UK



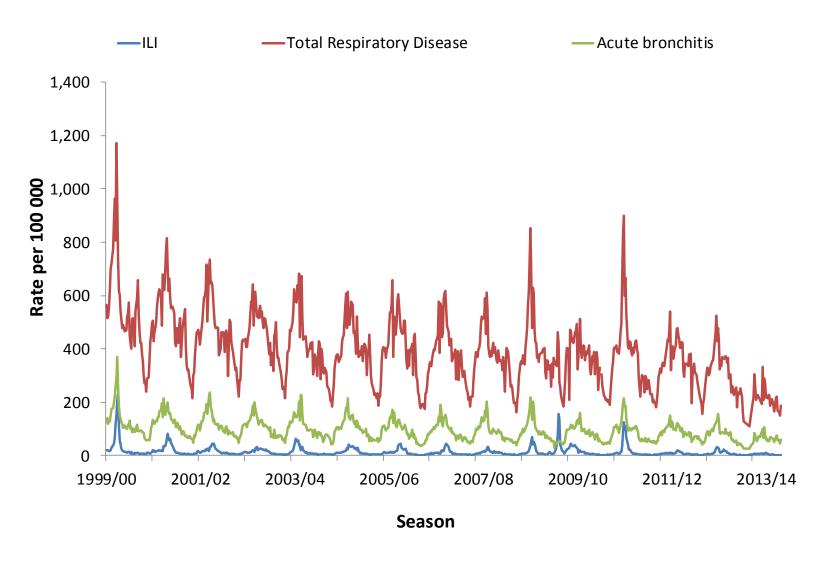
Royal College of General Practitioners

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

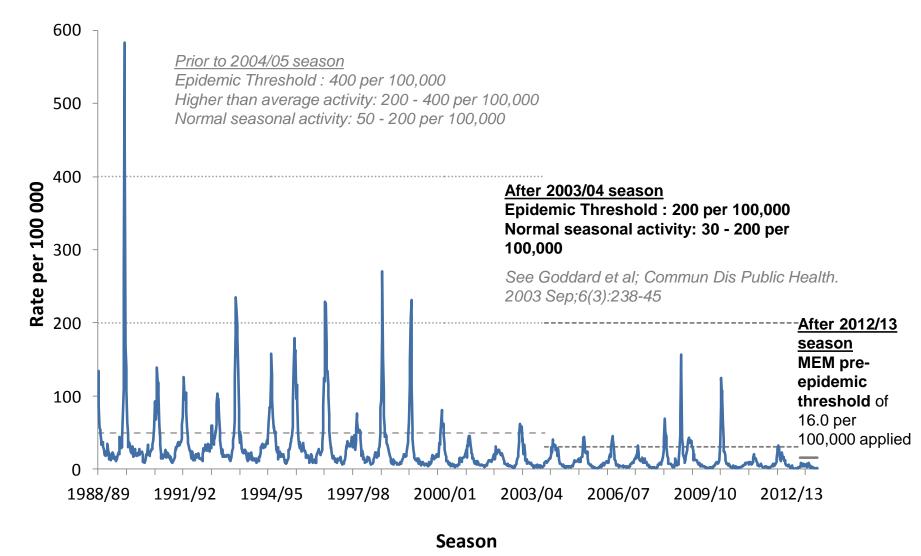


RCGP: Influenza-like illness (ILI), acute bronchitis (AB) and total respiratory disease (TRD), 1999 onwards



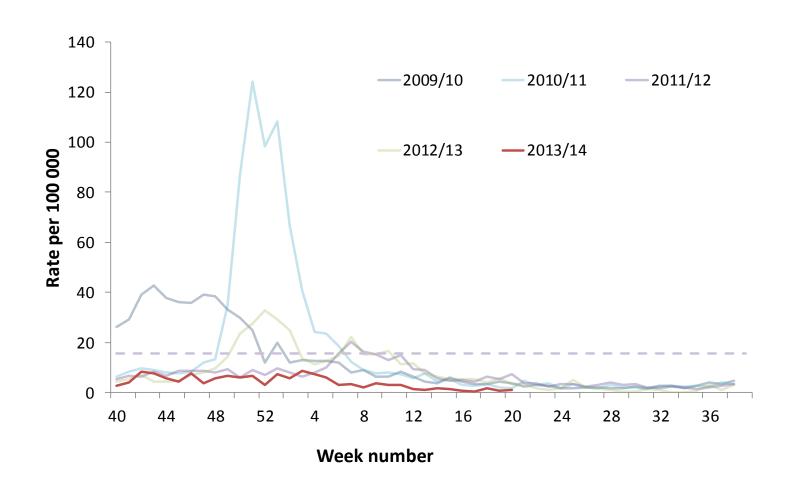






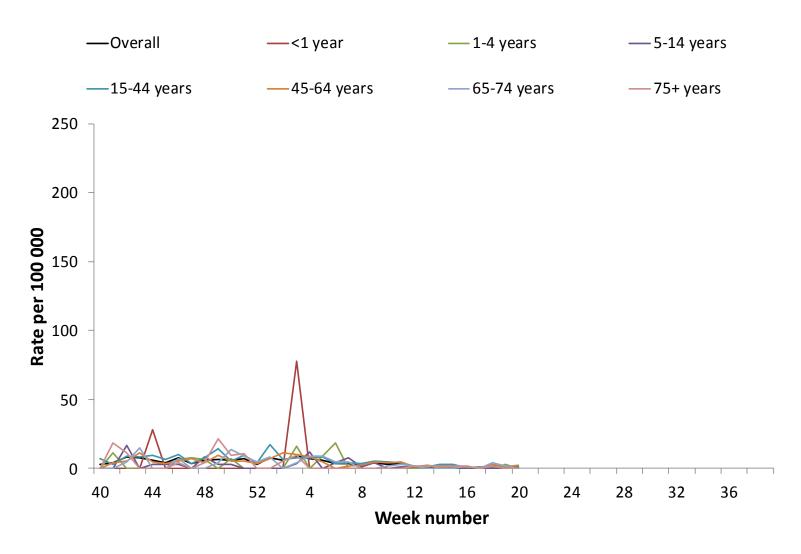


RCGP: Influenza-like illness current and recent seasons



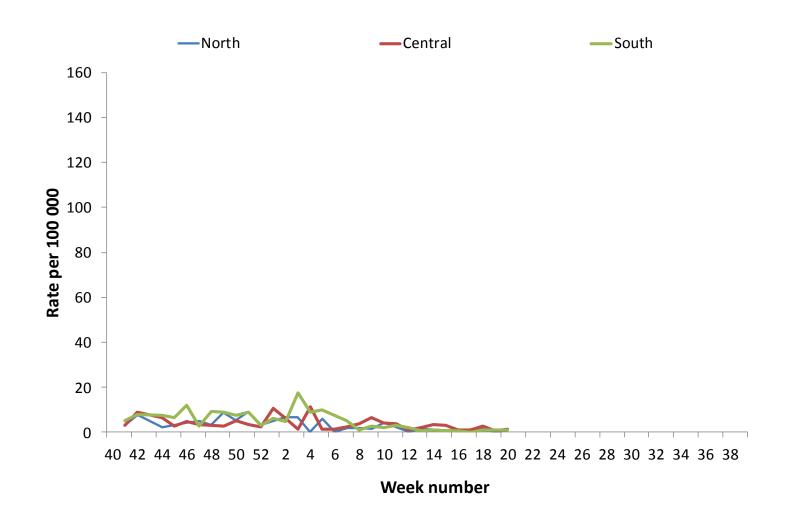


RCGP: ILI current season, by age group



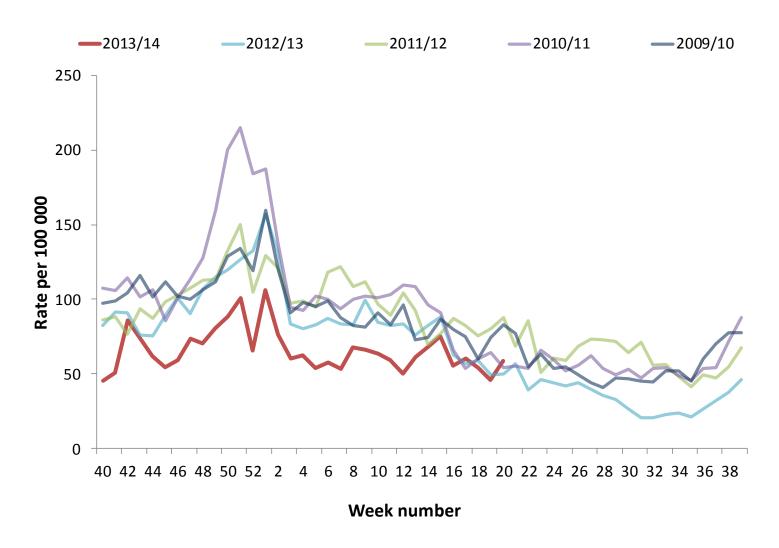


RCGP: ILI current season, by region (north, central and south)



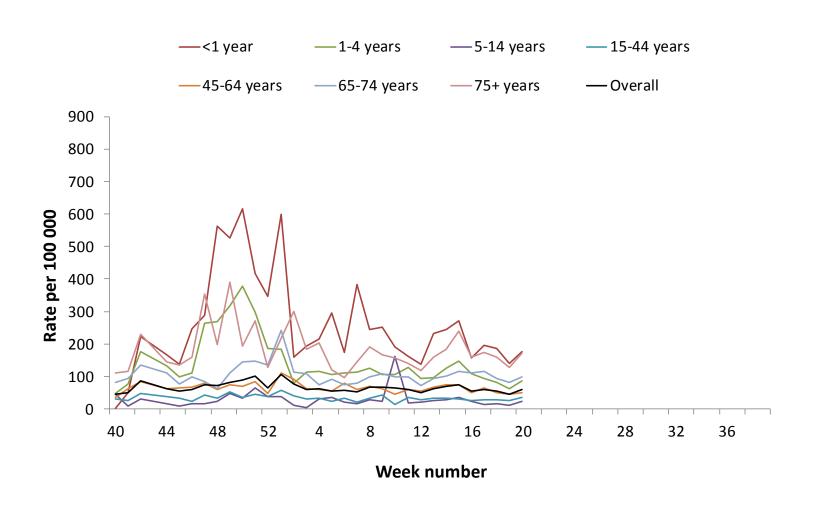


RCGP: Acute bronchitis current and recent seasons





RCGP: AB current season, by age group





Devolved Administrations

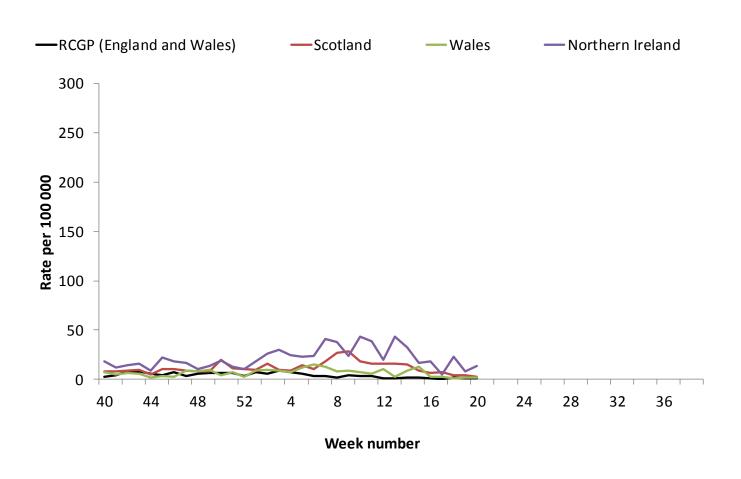
Sentinel GP systems operate in each of the four countries of the UK, there are differences between all schemes, so data are not directly comparable. See <u>sources</u> of flu data for further information.

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



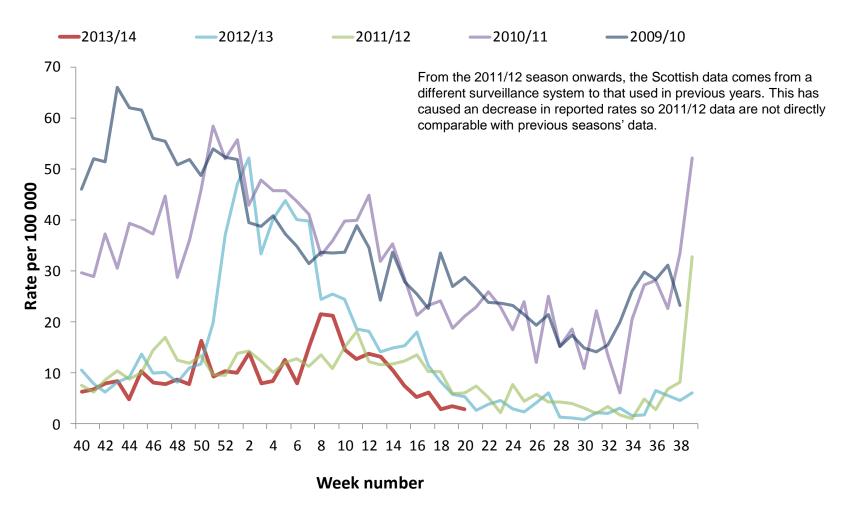
ILI/influenza – RCGP (England and Wales), Scotland, Wales and Northern Ireland



NB. Scottish rates are weekly averages of daily data.



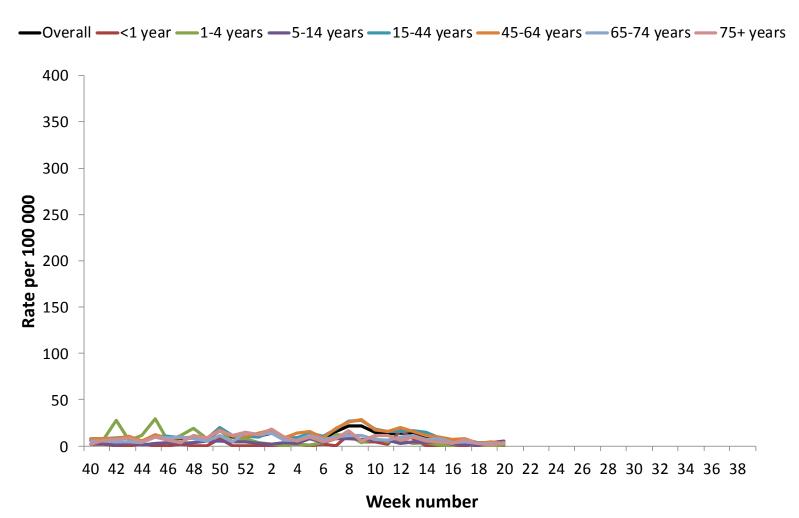
Scotland: ILI, current and recent seasons



NB. Scottish rates are weekly averages of daily data.



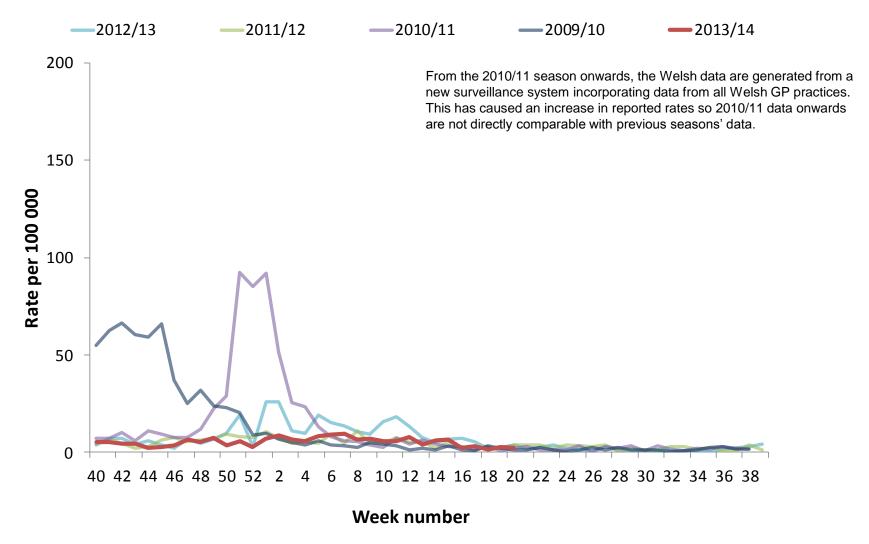
Scotland: ILI current season, by age group



NB. Scottish rates are weekly averages of daily data.

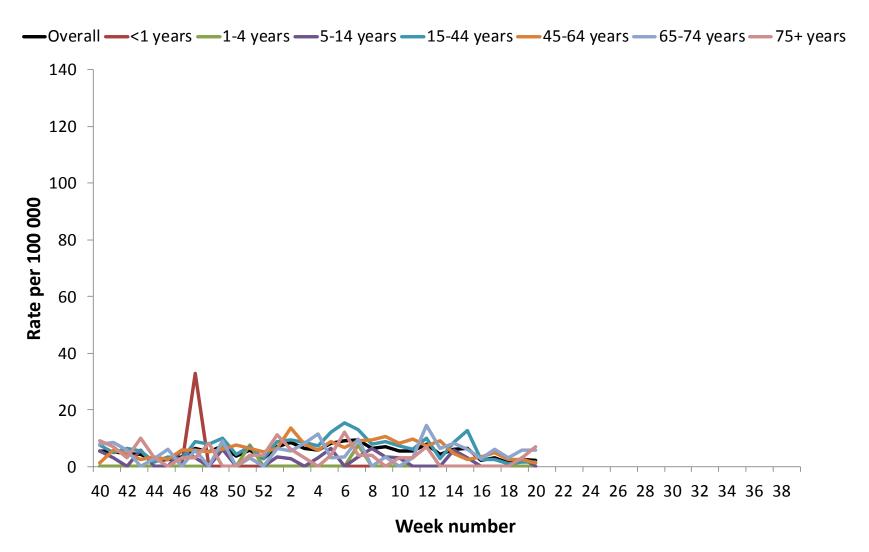


Wales: influenza, current and recent seasons



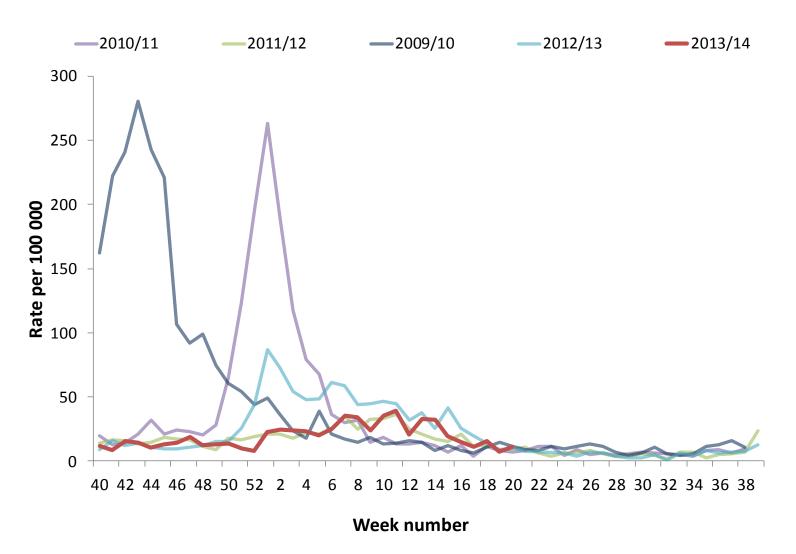


Wales: influenza current season, by age group



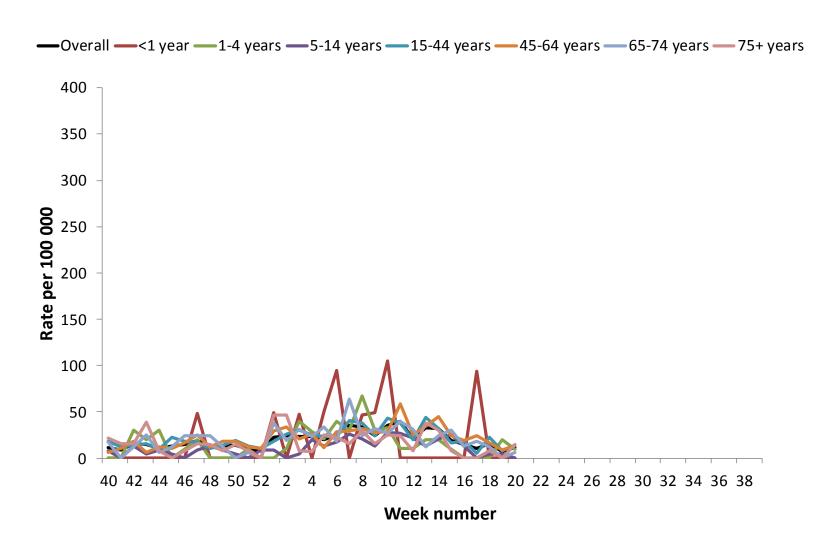


Northern Ireland: influenza/ILI, current and recent seasons



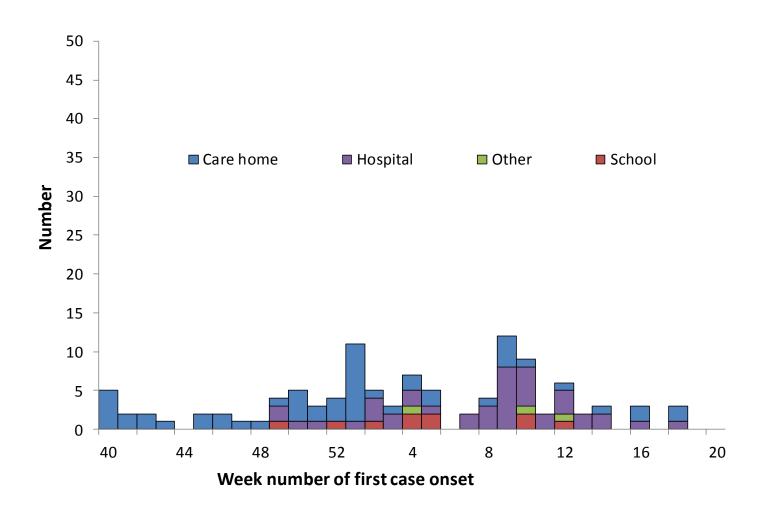


Northern Ireland: influenza/ILI current season, by age group





Number of acute respiratory outbreaks by institution, UK





Outbreaks (table by PHE region)

	Outbreaks reported in Week 21	Cumulative since Week 40
PHE North of England	0	16
PHE Midlands and East of England	0	37
PHE London	0	13
PHE South of England	0	33



Laboratory Figures

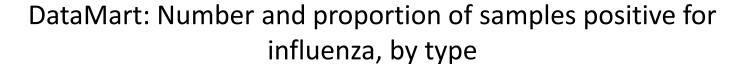
- Data on the influenza viruses circulating comes from a number of sources. Samples can be taken from patients for diagnostic tests or for surveillance purposes.
- Select an option from below:
- Datamart postive and negative results for respiratory viruses reported by regional labs
- Sentinel virological surveillance GP-based systems



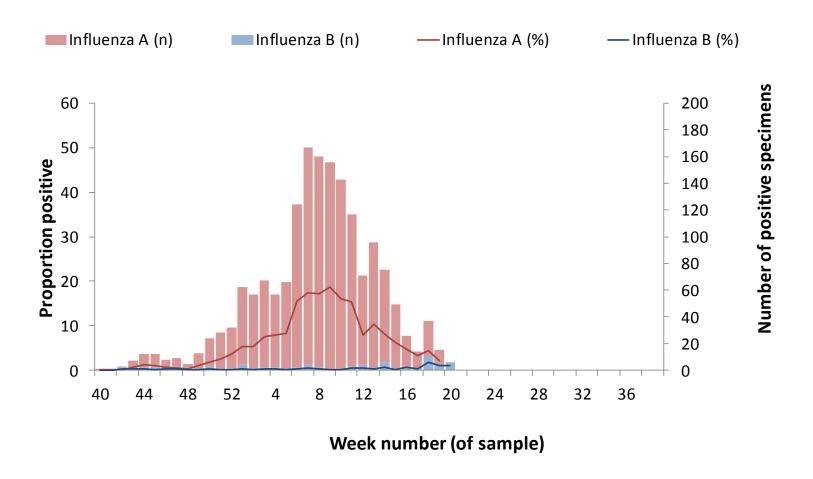
Datamart

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
- Number and proportion of samples positive for influenza, by PHE region
- Proportion of samples positive for influenza H1N1 (2009), by age group
- Proportion of samples positive for influenza A, by age group
- Proportion of samples positive for influenza B, by age group
- Number and proportion of samples positive for other viruses
- Proportion of samples positive for RSV, by age group







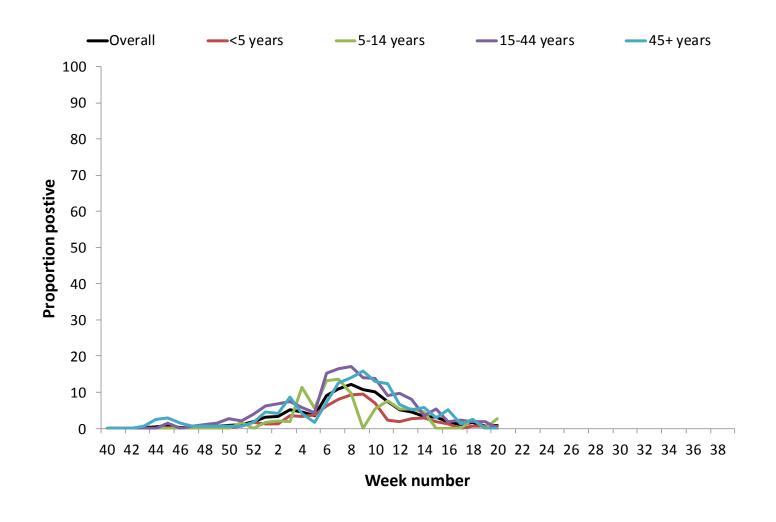


DataMart: Number and proportion of samples positive for influenza, by PHE region, week 19

	Number of samples	Influenza A(H1N1)pdm09	Influenza A(H3)	Influenza A(unsubtyped)	Influenza B	% positivity
PHE North of England	136	0	0	1	0	0.74
PHE Midlands and East of England	219	5	1	0	4	4.57
PHE London	122	0	0	1	2	2.46
PHE South of England	122	0	5	0	0	4.10

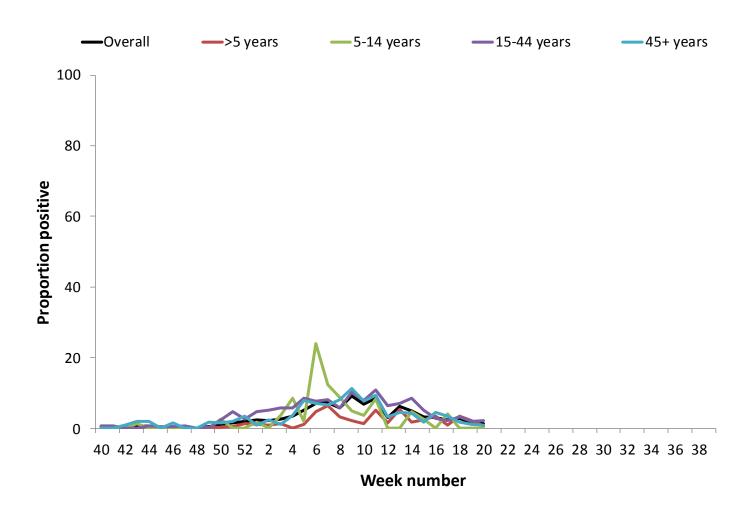


DataMart: Proportion of samples positive for pandemic (H1N1) influenza, by age group



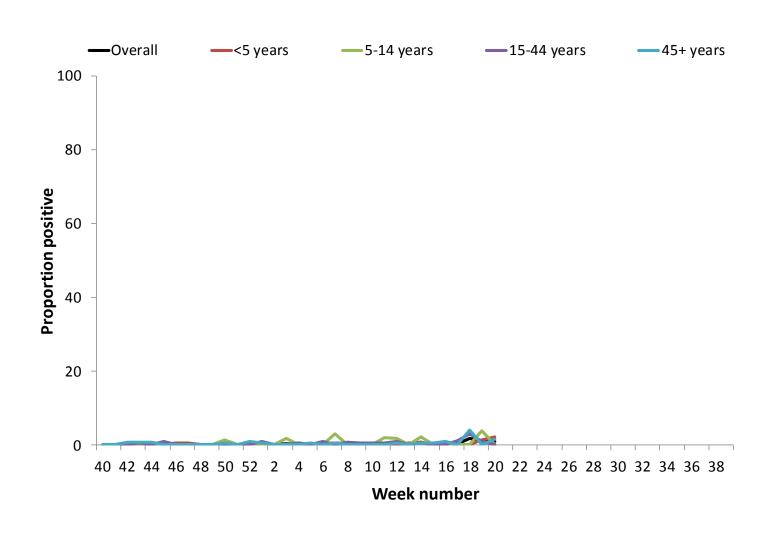


DataMart: Proportion of samples positive for influenza A (A(H3) and A(not subtyped)), by age group



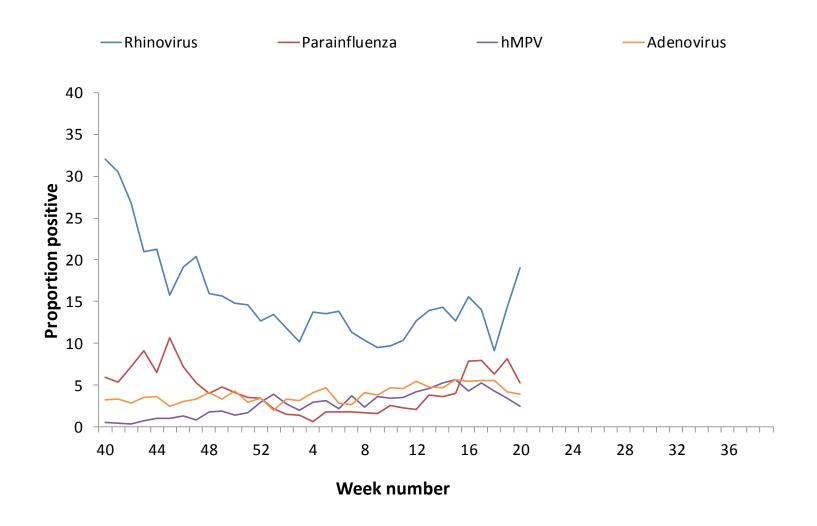


DataMart: Proportion of samples positive for influenza B, by age group



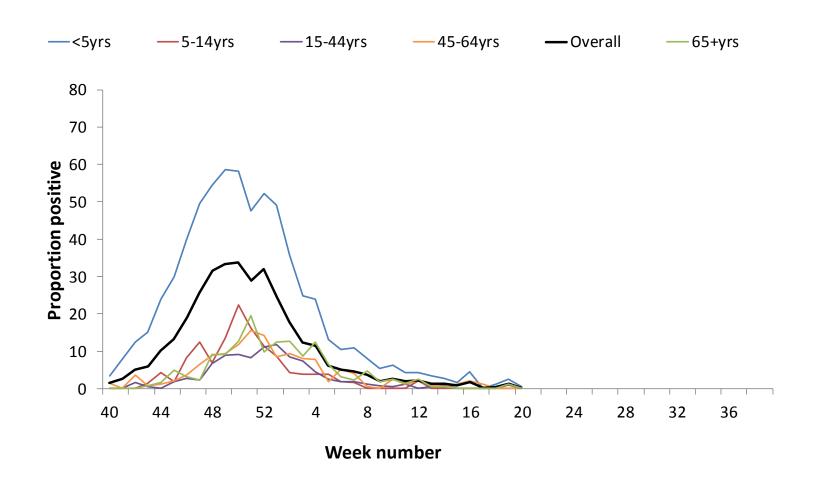


DataMart: Number and proportion of samples positive for other viruses



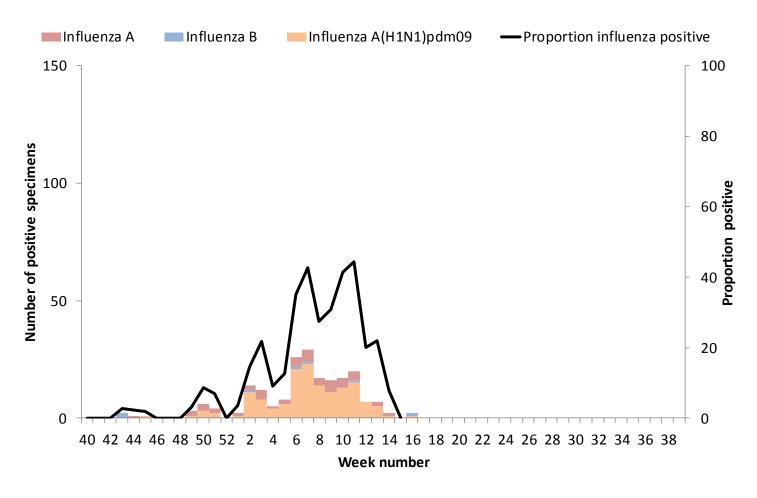


DataMart: Proportion of samples positive for RSV, by age group





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





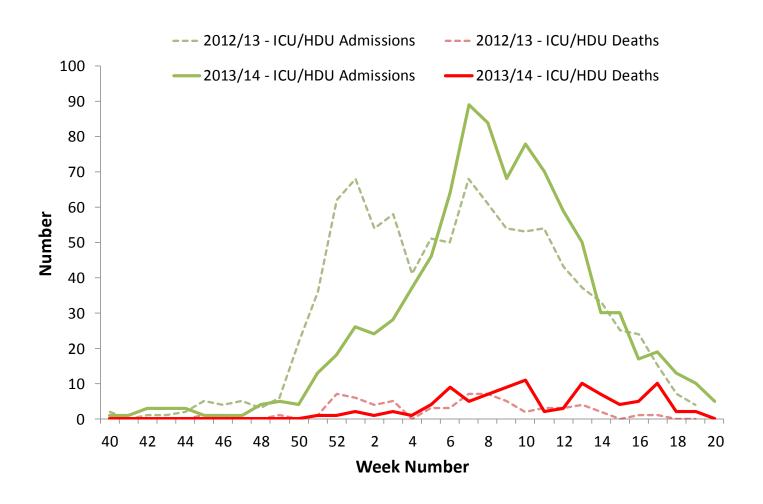
Morbidity and mortality

- USISS mandatory ICU admissions by week
- USISS mandatory ICU admissions by PHE region
- USISS mandatory ICU admissions by age
- USISS sentinel hospital admissions by week
- * Excess mortality (all causes) by week of registration
- * Excess mortality (all causes) by week of death
- Excess mortality (all causes) by PHE region

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Influenza confirmed ICU admissions and fatalities (USISS mandatory)



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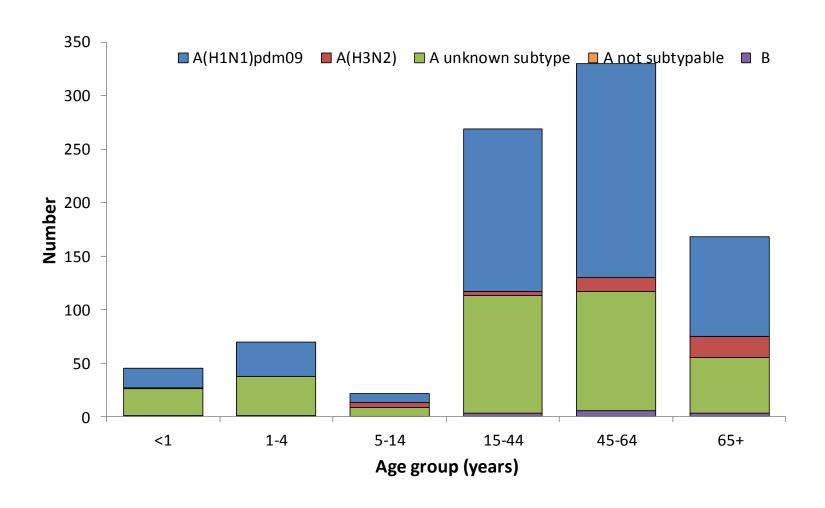
Cumulative influenza confirmed ICU admissions and fatalities (USISS mandatory) by influenza subtype and PHE region

		PHE North of England	PHE Midlands and East of England	PHE London	PHE South of England
S	Influenza A(H1N1)pdm09	98	139	51	89
Admissions	Influenza A(H3)	4	14	2	9
	Influenza A(unsubtyped)	76	36	210	18
	Influenza B	2	1	10	1
	Influenza A(H1N1)pdm09	11	11	9	15
Deaths	Influenza A(H3)	0	1	1	1
	Influenza A(unsubtyped)	7	1	3	1
	Influenza B	0	0	0	0

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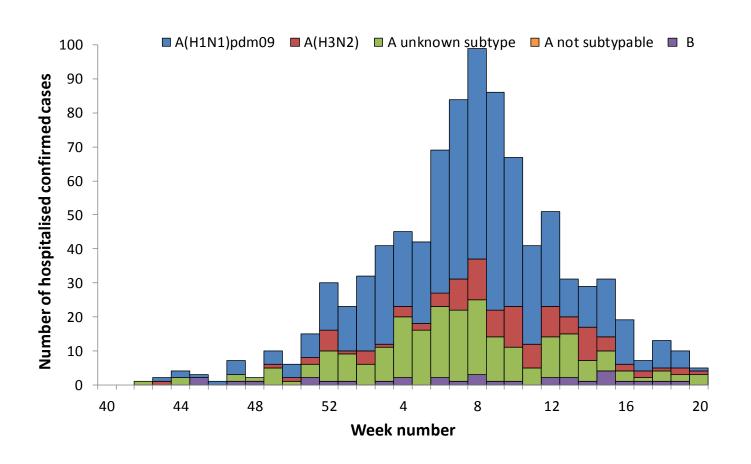
Influenza confirmed ICU admissions (USISS mandatory) by age and influenza subtype



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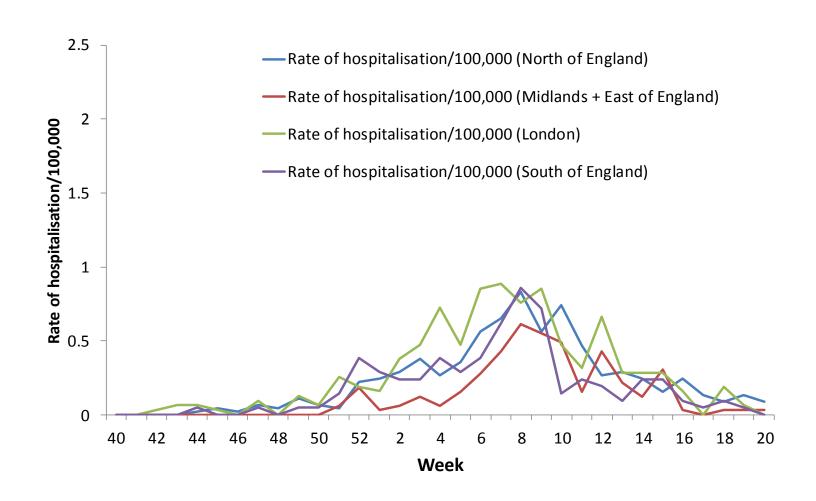
Influenza confirmed hospital admissions (USISS sentinel) by influenza subtype



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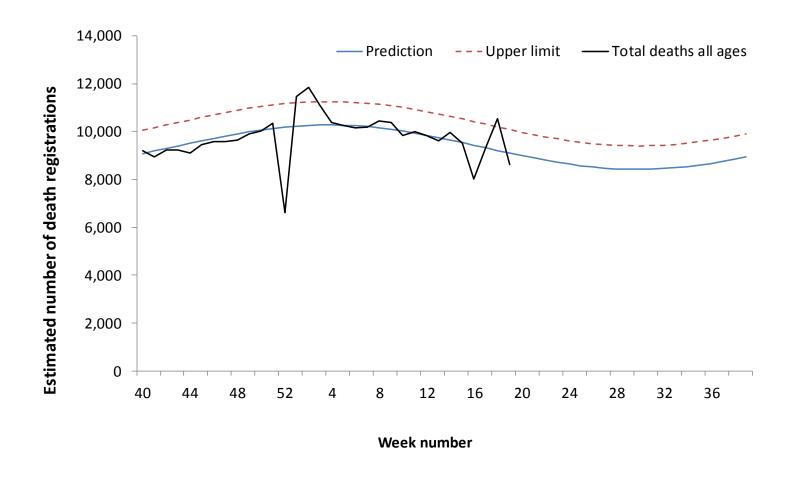


Influenza confirmed hospital admissions (USISS sentinel) per 100,000 trust catchment population by influenza subtype and PHE region



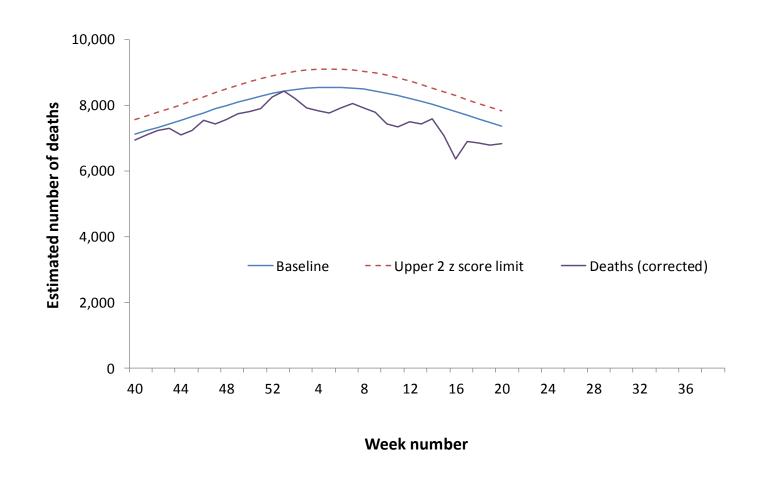


Excess mortality (all causes) by week of registration, all ages, England and Wales





Excess mortality (all causes) by week of death through the EuroMOMO algorithm in 65+year olds, England



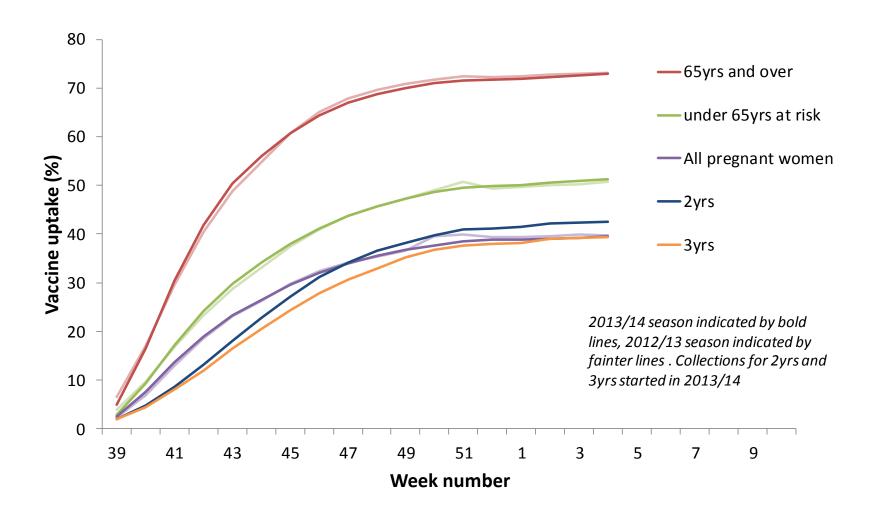


Excess mortality (all causes) through the EuroMOMO algorithm by PHE region

	Excess seen in week 20?	Weeks with excess seen since week 40
PHE North of England	X	NA
PHE Midlands and East of England	X	NA
PHE London	X	NA
PHE South of England	X	NA



Seasonal influenza vaccine uptake in targeted groups, 2013/14, England





Links

Sources of UK flu surveillance data:

http://www.hpa.org.uk/Topics/InfectiousDiseas es/InfectionsAZ/SeasonalInfluenza/Epidemiologi calData/30influsSourcesofUKfludata/

Weekly flu report

http://www.hpa.org.uk/web/HPAweb&Page&HPAwebAutoListName/Page/1243928258560