PHE Influenza Surveillance graphs

- 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.

- National and subnational outputs from the various surveillance systems are grouped according to the following categories:
  - Community influenza surveillance
  - Influenza-like illness GP consultation rates
  - Influenza-confirmed hospitalisations
  - All-cause mortality
  - Microbiological surveillance
  - Influenza vaccination

Respiratory Diseases Department

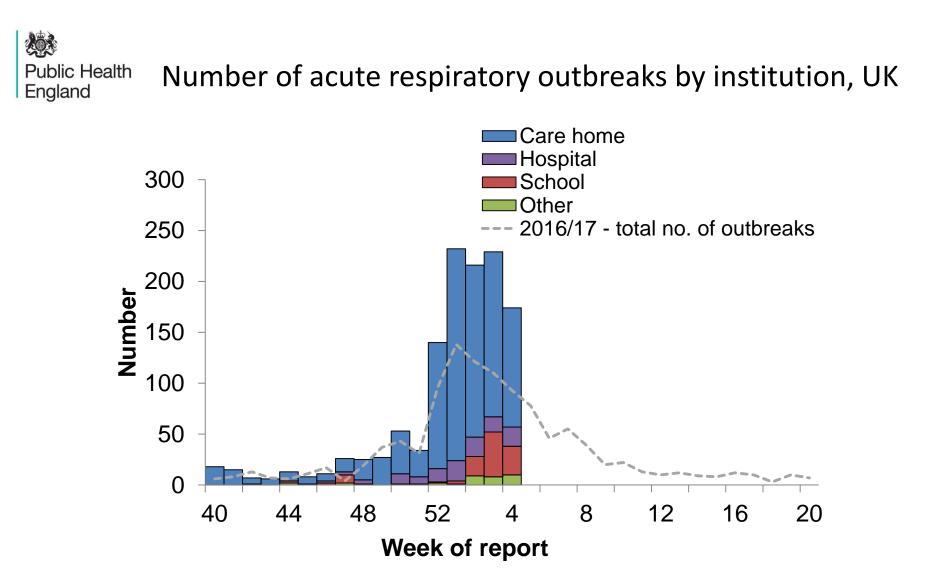Centre for Infectious Disease Surveillance and Control

Public Health England

respscidsc@phe.gov.uk

Community influenza surveillance

Number of acute respiratory outbreaks by institution, UK

Legend:
- Care home
- Hospital
- School
- Other
- 2016/17 - total no. of outbreaks

Y-axis: Number (0, 50, 100, 150, 200, 250, 300)

X-axis: Week of report (40, 44, 48, 52, 4, 8, 12, 16, 20)

Number of acute respiratory outbreaks by PHE Region

	Outbreaks reported in week 04	Cumulative number of outbreaks since week 40
PHE North of England	41	311
PHE Midlands and East of England	56	348
PHE London	5	43
PHE South of England	62	390

Influenza-like illness GP consultation rates

RCGP ILI consultation rate, England

GP ILI consultations in the UK for all ages with MEM thresholds applied

GP ILI consultation rates (all ages)	Week number																
	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4
England (RCGP)	6.8	5.4	5.9	6.1	5.0	6.4	5.9	7.3	7.6	8.5	11.4	18.9	21.0	37.3	53.1	54.1	52.1
Wales	5.7	6.5	6.6	5.4	5.0	5.4	6.2	6.4	5.9	6.4	8.7	13.2	16.7	36.4	62.1	74.7	53.0
Scotland	10.0	15.3	8.3	10.8	12.4	11.7	10.3	9.1	9.4	18.4	32.5	40.3	44.9	107.2	113.9	102.1	82.3
Northern Ireland	3.4	3.9	3.7	3.3	4.0	3.6	4.5	5.3	4.0	8.2	10.1	20.7	22.7	52.6	65.2	52.1	44.2

The Moving Epidemic Method (MEM) has been adopted by the European Centre for Disease Prevention and Control to calculate thresholds for GP ILI consultations for the start of influenza activity (based on 10 seasons excluding 2009/10), in a standardised approach across Europe. For MEM threshold values for each country, please visit: https://www.gov.uk/guidance/sources-of-uk-flu-data-influenza-surveillance-in-the-uk#clinical-surveillance-through-primary-care .
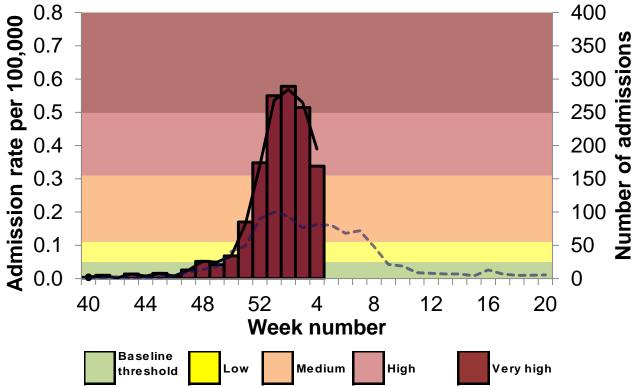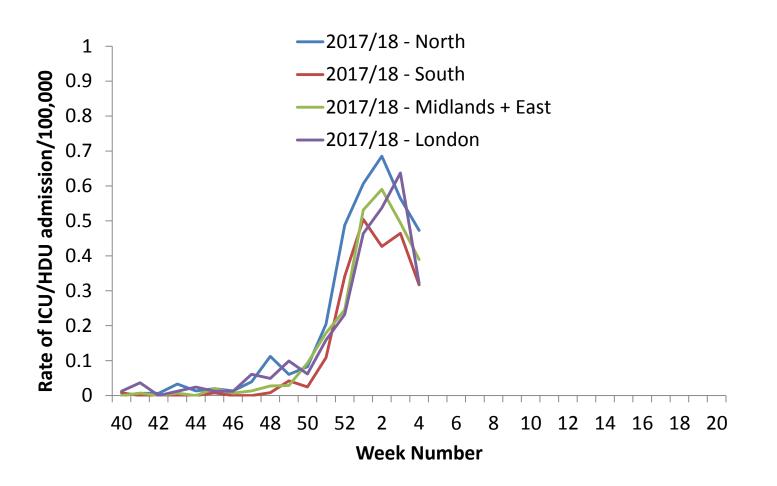
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Public Health
England

Influenza-confirmed hospitalisations

Weekly ICU/HDU influenza admission rate per 100,000 trust catchment population , England, since week 40 2017

Public Health England

Legend:
- Number of cases
- Rate of hospital admission/100,000 (2017/18)
- Rate of hospital admission/100,000 (2016/17)

Threshold categories:
- Baseline threshold
- Low
- Medium
- High
- Very high

The Moving Epidemic Method (MEM) has been adopted by the European Centre for Disease Prevention and Control to calculate thresholds for ICU/HDU admission rates for the start of influenza activity (based on 6 seasons) in a standardised approach across Europe. For MEM threshold values, please visit: https://www.gov.uk/guidance/sources-of-uk-flu-data-influenza-surveillance-in-the-uk#disease-severity-and-mortality-data
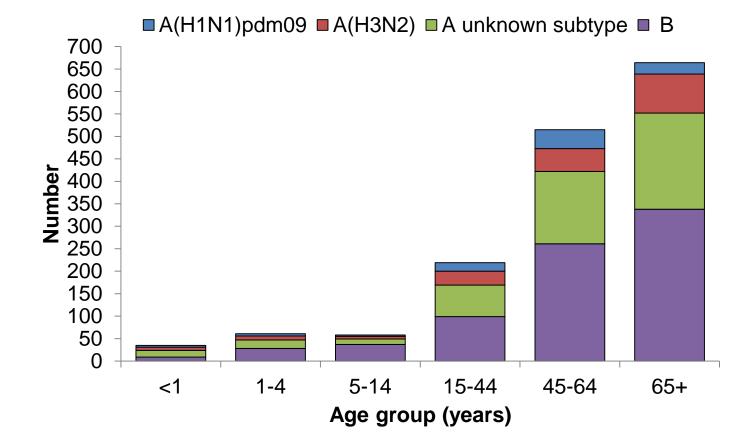
1 February 2018

Weekly ICU/HDU influenza admission rate per 100,000 trust catchment population by PHE region, since week 40 2017

Influenza confirmed ICU admissions (USISS mandatory) by age and influenza subtype, since week 40 2017

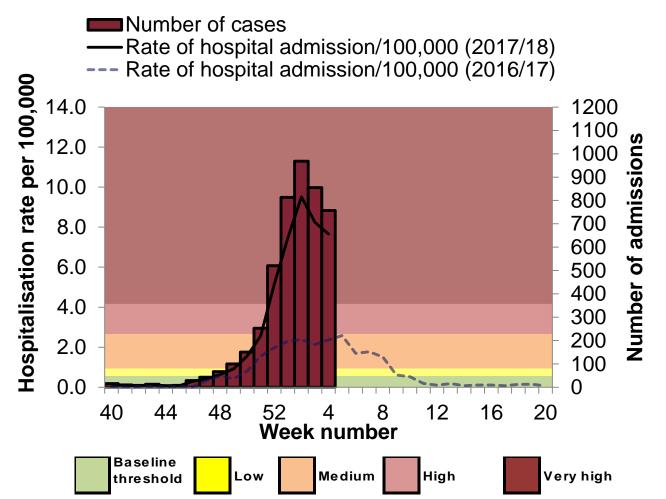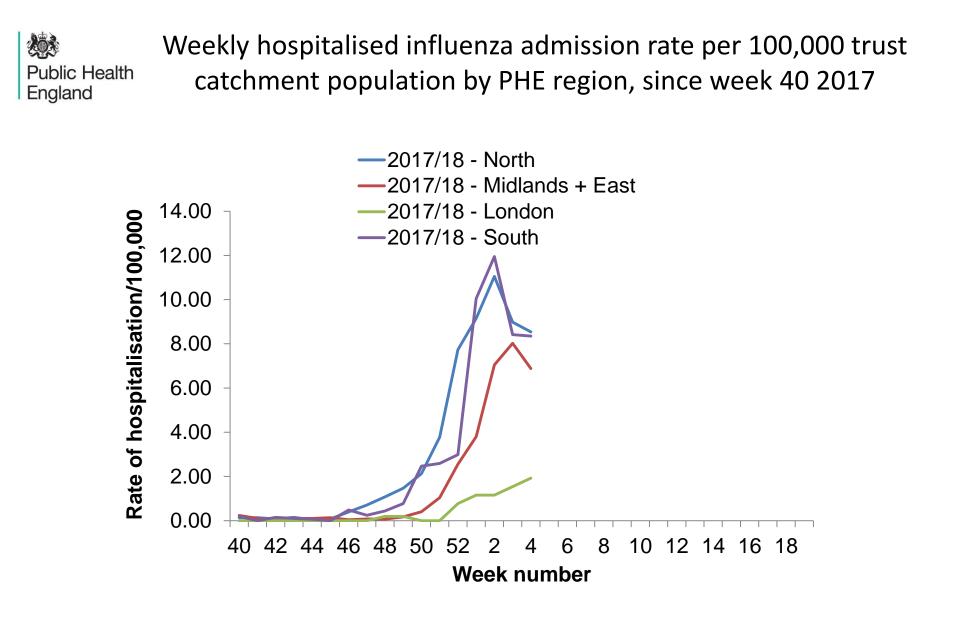# Weekly hospitalised influenza case rate per 100,000 trust catchment population , England, since week 40 2017

Legend:
- Number of cases
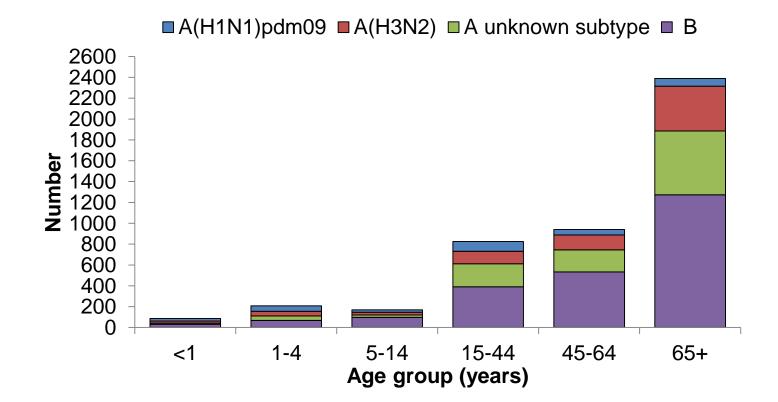- Rate of hospital admission/100,000 (2017/18)
- Rate of hospital admission/100,000 (2016/17)

Left axis: Hospitalisation rate per 100,000
Right axis: Number of admissions
X-axis: Week number

Baseline threshold | Low | Medium | High | Very high

The Moving Epidemic Method (MEM) has been adopted by the European Centre for Disease Prevention and Control to calculate thresholds for ICU/HDU admission rates for the start of influenza activity (based on 6 seasons) in a standardised approach across Europe. For MEM threshold values, please visit: https://www.gov.uk/guidance/sources-of-uk-flu-data-influenza-surveillance-in-the-uk#disease-severity-and-mortality-data

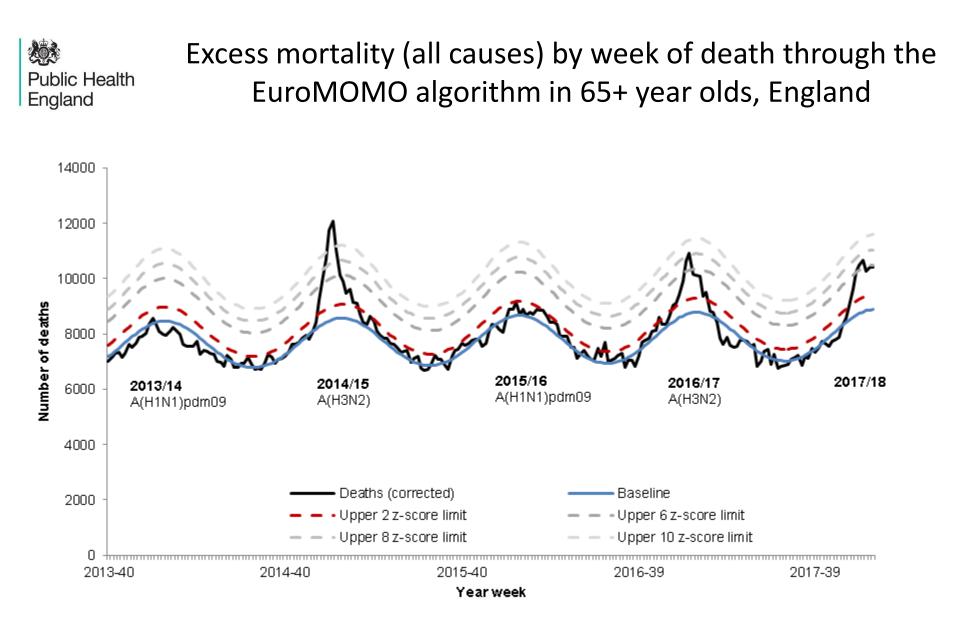# Weekly hospitalised influenza admission rate per 100,000 trust catchment population by PHE region, since week 40 2017

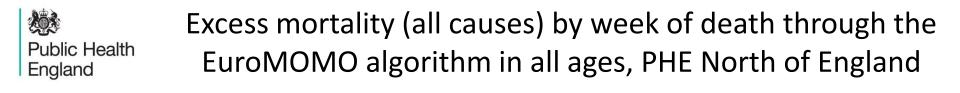Influenza confirmed hospital admissions (USISS sentinel) by age and influenza subtype, since week 40 2017

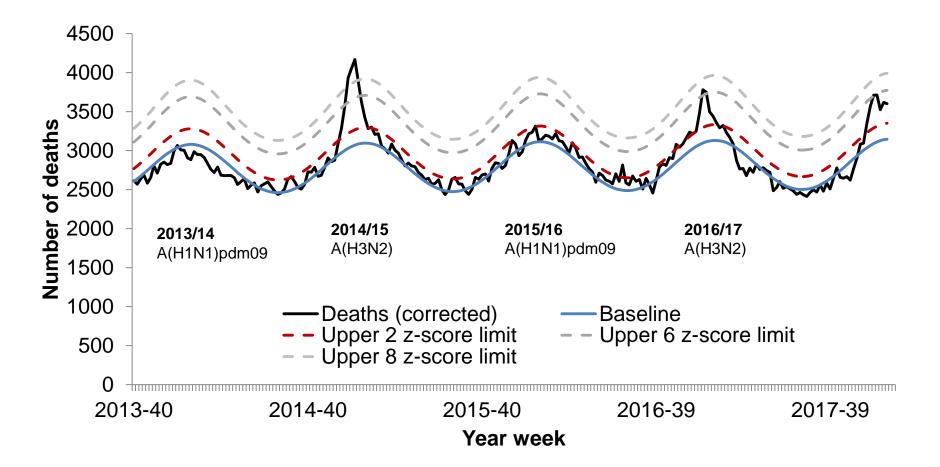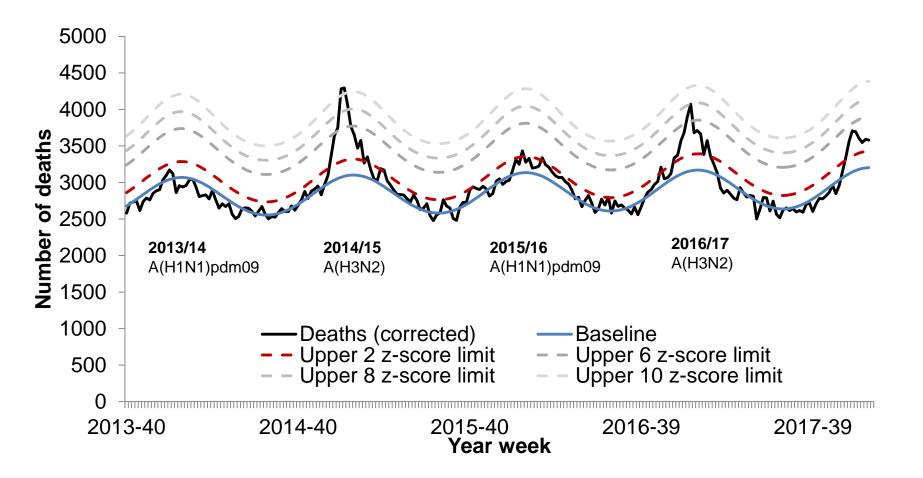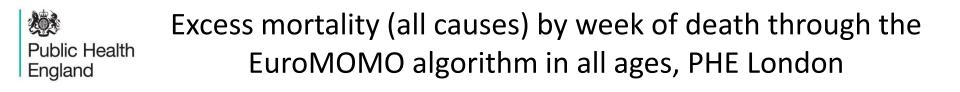# All-cause mortality

1 February 2018

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

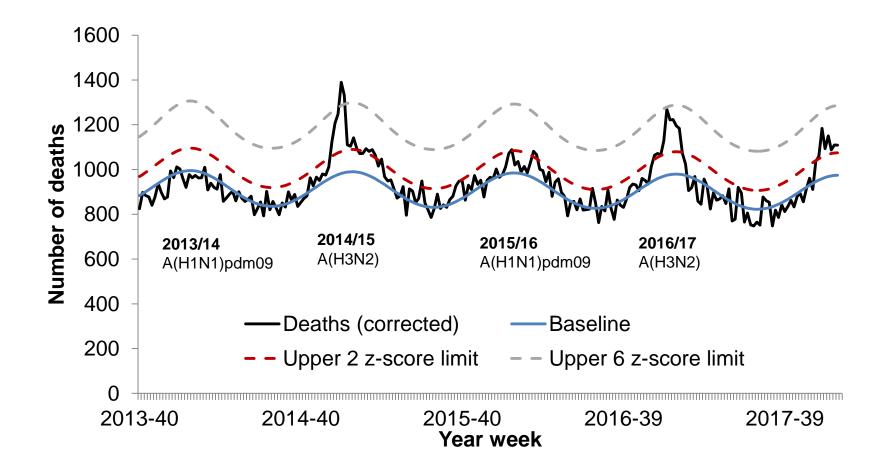# Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE North of England

Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE Midlands and East of England

Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE London
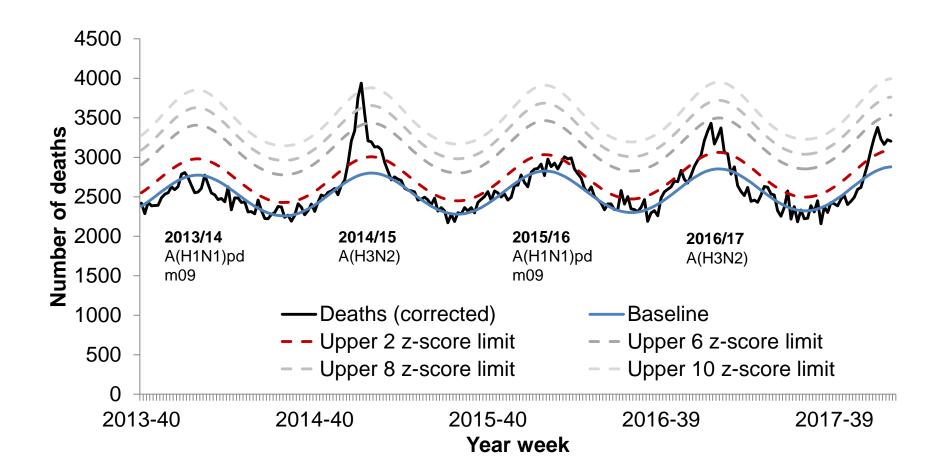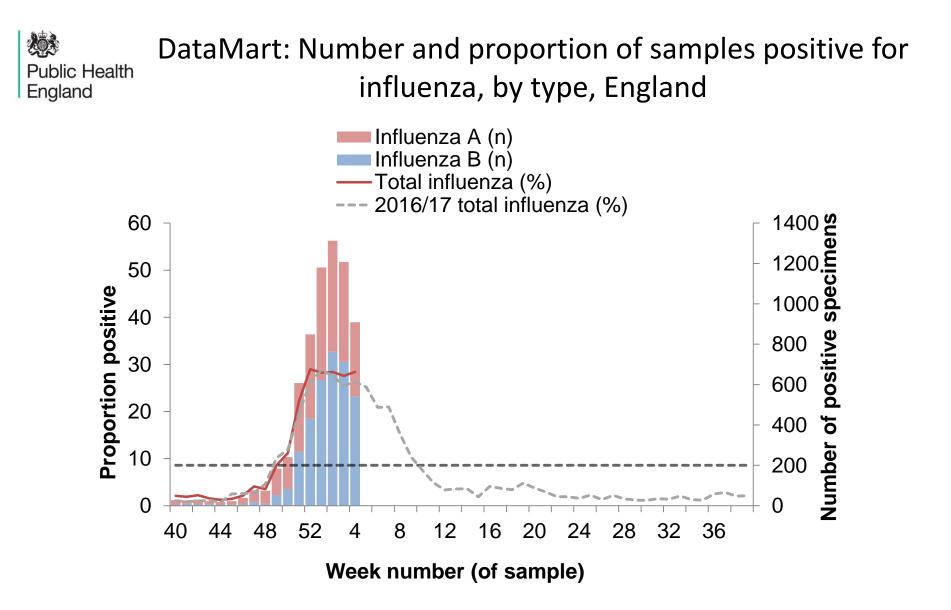
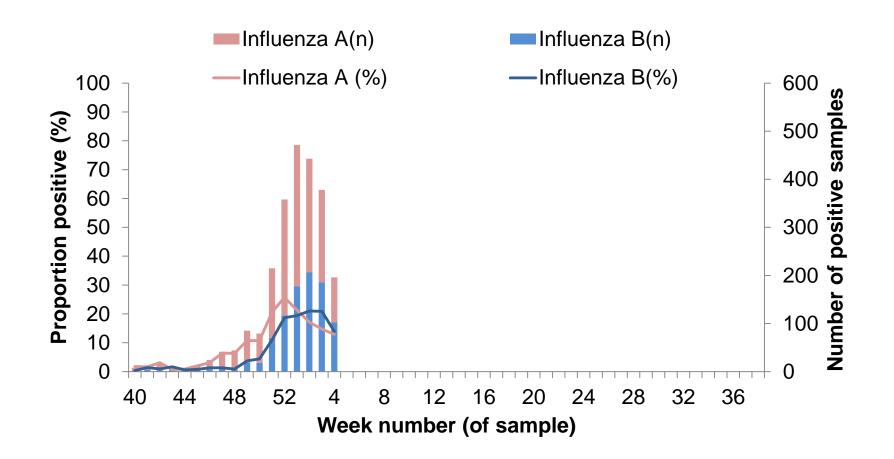Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE South of England

Microbiological surveillance

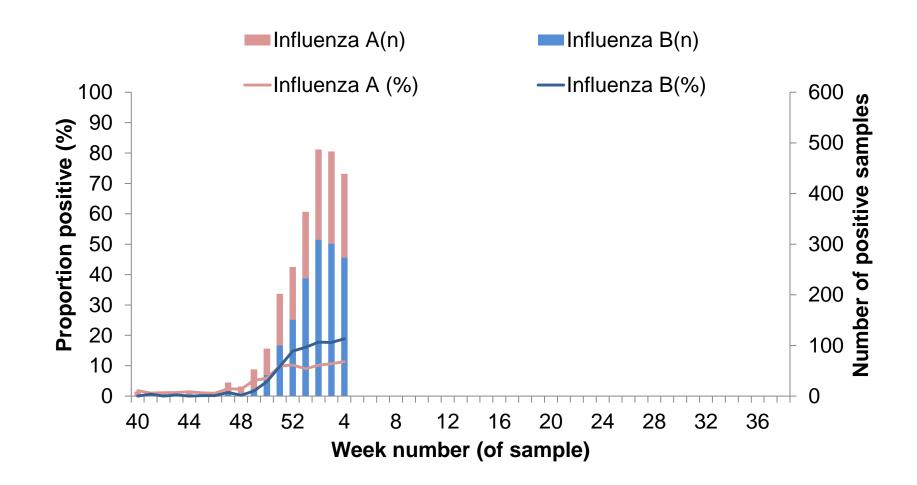DataMart: Number and proportion of samples positive for influenza, by type, England

Public Health England

- Influenza A (n)
- Influenza B (n)
- Total influenza (%)
- 2016/17 total influenza (%)

Week number (of sample)

1 February 2018
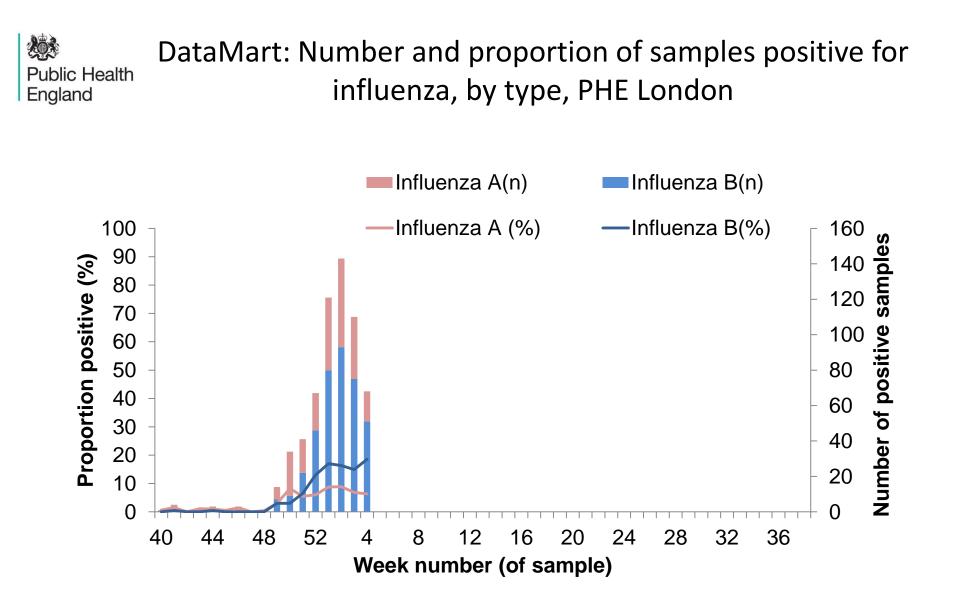
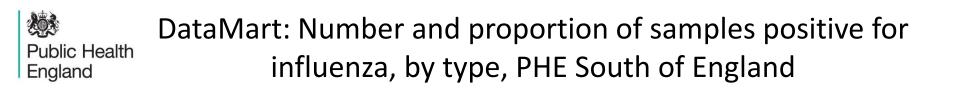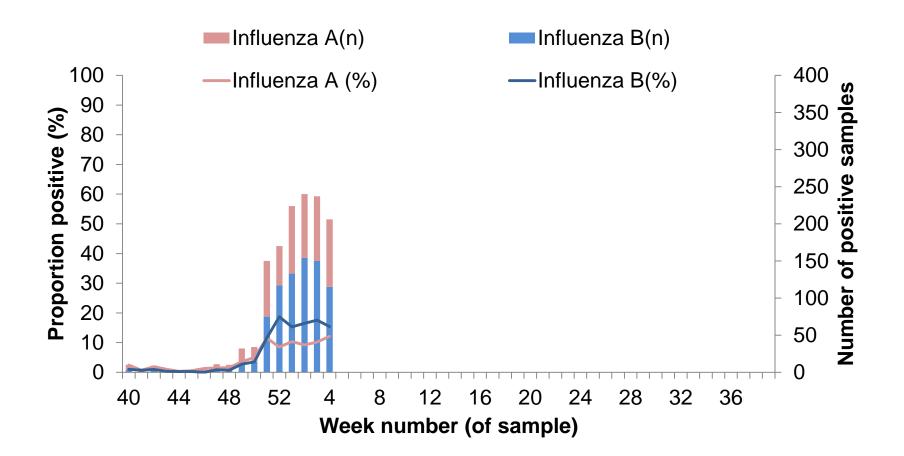DataMart: Number and proportion of samples positive for influenza, by type, PHE North of England

DataMart: Number and proportion of samples positive for influenza, by type, PHE Midlands and East of England

Public Health England

Influenza A(n) Influenza B(n) Influenza A (%) Influenza B(%)

1 February 2018

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

Public Health England

Influenza A(n)   Influenza B(n)
Influenza A (%)   Influenza B(%)

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

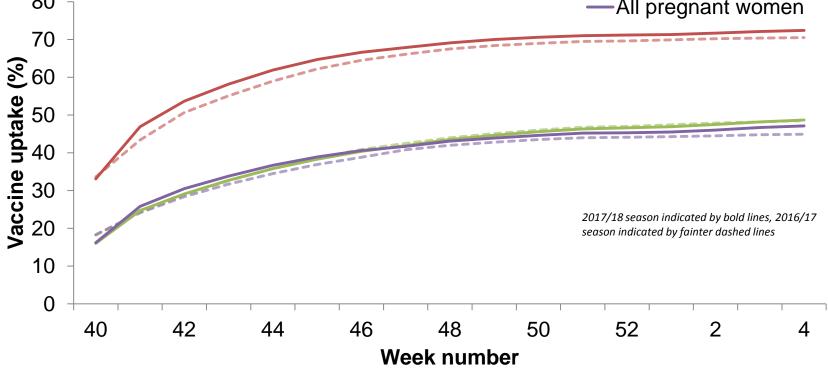DataMart: Proportion of samples positive for influenza, by age group

DataMart: Proportion of samples positive for other viruses

Influenza vaccination

Seasonal influenza vaccine uptake in targeted groups, 2017/18, England

Legend:
- 65+yrs
- <65yrs at risk
- All pregnant women

2017/18 season indicated by bold lines, 2016/17 season indicated by fainter dashed lines

Y-axis: Vaccine uptake (%)

X-axis: Week number

Seasonal influenza vaccine uptake in targeted groups, 2017/18, England

Public Health England

2017/18 season indicated by bold lines, 2016/17 season indicated by fainter dashed lines

Legend: 2 years, 3 years

X-axis: Week number

Y-axis: Vaccine uptake (%)

Links

- Sources of UK flu surveillance data:

https://www.gov.uk/sources-of-uk-flu-data-influenza-surveillance-in-the-uk

- Weekly flu report

https://www.gov.uk/government/statistics/weekly-national-flu-reports