

Emergency Department Syndromic Surveillance System Bulletin (England) 2024 Week 47

Key messages

Data reported to: 24 November 2024

During week 47, ED attendances for acute respiratory infections (ARI) increased and continued at above seasonally expected levels. Attendances for acute bronchiolitis in children aged under 1 and 1 to 4 years increased, but overall activity remained at expected levels. There was an increase in influenza-like illness attendances in adults aged 15 to 44 and 45 to 64 years, although overall activity remained largely in line with seasonal expectations. There was a sharp increase in 'impact of cold' attendances during week 47, particularly in the North and Midlands regions and 15 years and over age groups. This activity was in line with an Amber Cold Weather Alert that was in place over parts of England during the reporting week.

Syndromic indicators at a glance Decreasing

Table 1: The current trend (based on previous weeks, not only the current week) and the level (compared to the expected baseline), of each indicator included in this bulletin.

Indicator	Trend ¹	Level
Total attendances (Figure 1)	No trend	No baseline
COVID-19-like (Figure 2)	Decreasing	No baseline
Acute respiratory infections (Figure 3)	Increasing	Above baseline
Acute bronchiolitis or bronchitis (Figure 4)	Increasing	Similar to baseline
Influenza-like illness (Figure 5)	Increasing	Similar to baseline
Pneumonia (Figure 6)	Increasing	Similar to baseline
Asthma (Figure 7)	No trend	Above baseline
Gastroenteritis (Figure 8)	No trend	Similar to baseline
Cardiac (Figure 9)	No trend	Similar to baseline
Myocardial ischaemia (Figure 10)	Decreasing	Similar to baseline
Acute alcohol intoxication (Figure 11)	Decreasing	Similar to baseline
Mental health (Figure 12)	Decreasing	No baseline
Scarlet fever (Figure 13)	No trend	Similar to baseline
Impact of cold (Figure 14)	Increasing	Above baseline

¹ trend reports on the trend seen over most recent and earlier weeks

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About this syndromic surveillance system

This bulletin presents data from the UK Health Security Agency (UKHSA) emergency department syndromic surveillance system.

Syndromic surveillance can be used to:

- assess current trends and levels compared to historical baselines
- · compare trends between age groups/areas

Syndromic surveillance should not be used to:

- estimate total burden or number of 'cases' of a condition (see Notes and caveats)
- compare levels between age groups/areas

Fully anonymised, daily ED data are analysed and reported here, to identify and describe trends for a variety of syndromic indicators:

- syndromic indicators include groupings such as acute respiratory tract infections, gastroenteritis and myocardial ischaemia
- syndromic indicators are based on:
 - o the primary diagnosis for each attendance
 - o other diagnoses may be recorded, but are not used for indicator grouping
 - o diagnoses are based on signs/symptoms (not laboratory confirmed)
- Key messages describes any notable trends nationally (England), by age group and/or by geographical area (based on UKHSA Regions)
- the full list of syndromic indicators reported here, along with their current level and trend, are summarised in Table 1
- charts are provided for each syndromic indicator, on a national basis, by age group and by geographical area (UKHSA Region). Each chart includes a year of data with:
 - 7-day moving averages (adjusted for weekends and bank holidays) to aid in the identification of trend
 - statistical baselines (where available) to aid in the assessment of level compared to historical expectations

For further information please see Notes and caveats

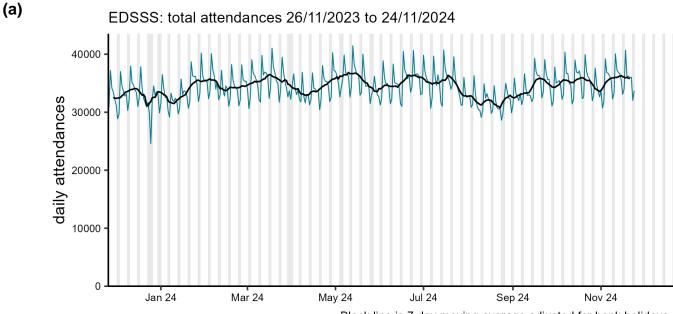
Previous weekly bulletins from this system are available <u>here</u>.

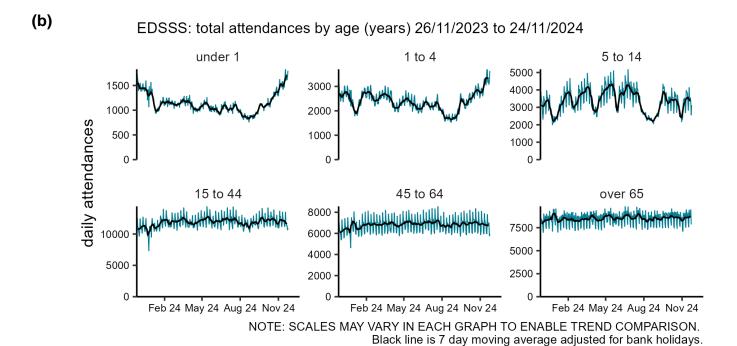
Data quality issues of note this week

See Table 2 and Table 3 for the numbers of EDs included this week.

Total attendances

Figure 1: Daily number of ED attendances (and 7-day moving average adjusted for bank holidays) recorded in this sentinel syndromic surveillance system in England (a) nationally, (b) by age and (c) by UKHSA Region.





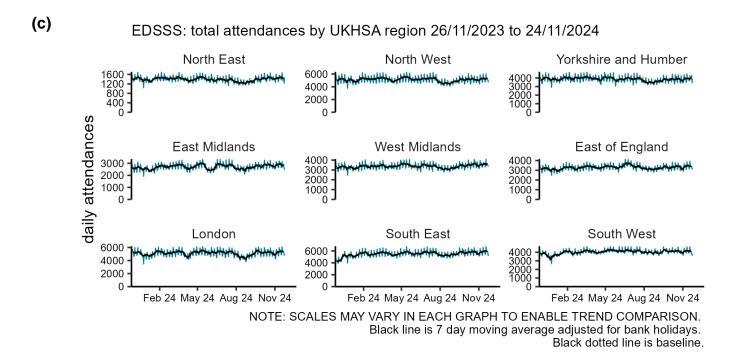


Table 2: The number of emergency department (ED) attendances and number with a diagnosis code included in surveillance each day during the most recent week.

Date	Total attendances ²	Diagnoses included ²
18 November 2024	40,689	24,663
19 November 2024	36,077	22,091
20 November 2024	36,237	22,417
21 November 2024	36,236	22,284
22 November 2024	36,156	21,965
23 November 2024	32,105	19,161
24 November 2024	33,760	20,316

Table 3: The number of EDs in total and in each UKHSA Region included in surveillance each day during the most recent week.

UKHSA Region	Number of EDs ²
North East	5
North West	23
Yorkshire and Humber	15
West Midlands	12
East Midlands	9
East of England	12
London	19
South West	19
South East	20
Total	134

² only attendances from Type 01 EDs meeting the weekly reporting criteria are included in this report, for further details see **Notes and caveats**

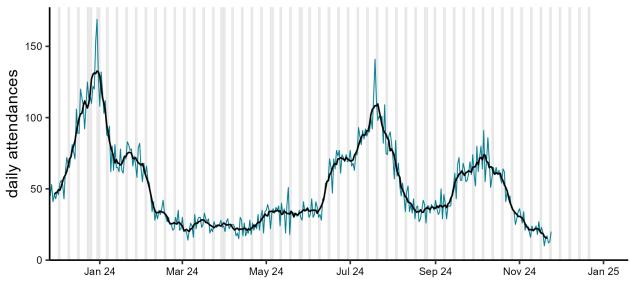
Respiratory conditions

Feb 24 May 24

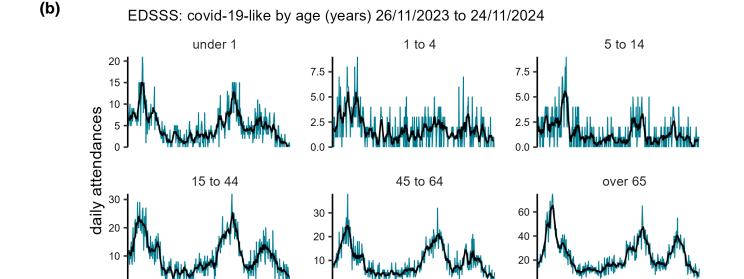
COVID-19-like

Figure 2: Daily number of COVID-19-like ED attendances (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by age and (c) by UKHSA Region.

(a) EDSSS: covid-19-like 26/11/2023 to 24/11/2024



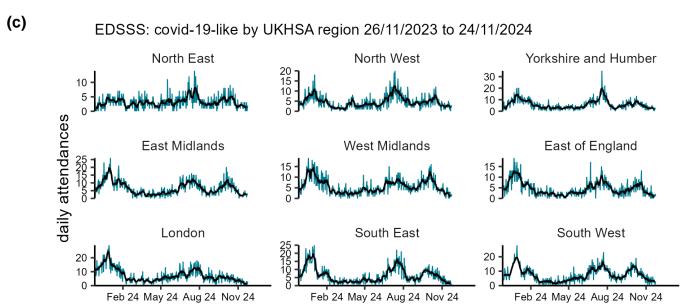
Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.



NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON.

Black line is 7 day moving average adjusted for bank holidays.

Feb 24 May 24 Aug 24 Nov 24



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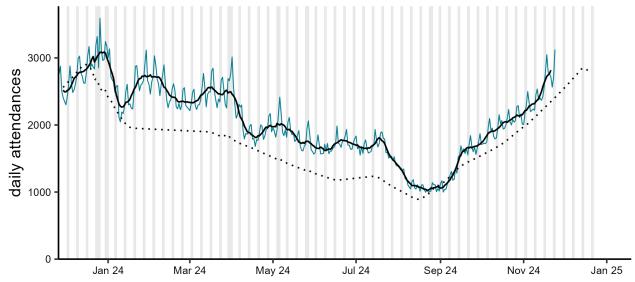
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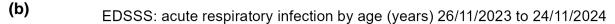
Acute respiratory infections

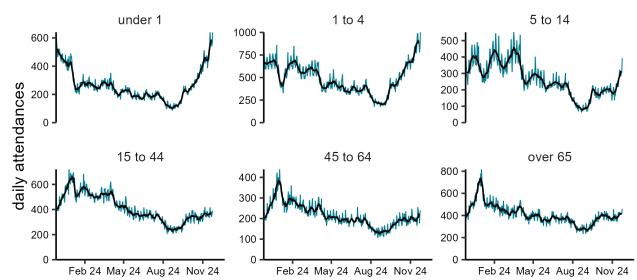
Figure 3: Daily number of acute respiratory infection ED attendances (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by age and (c) by UKHSA Region.





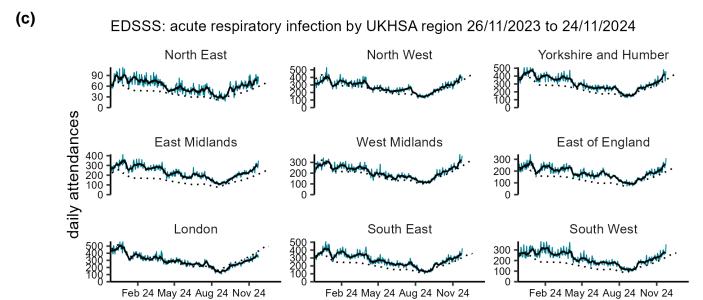
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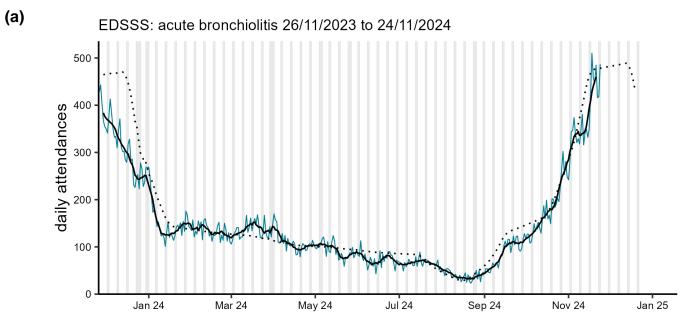
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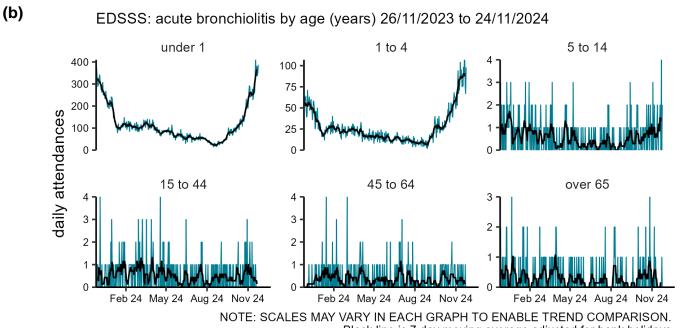
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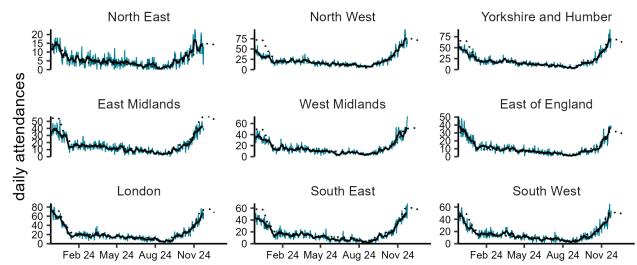
Acute bronchiolitis/bronchitis

Figure 4: Daily number of acute bronchiolitis/bronchitis ED attendances (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by age and (c) by UKHSA Region.





(c) EDSSS: acute bronchiolitis by UKHSA region 26/11/2023 to 24/11/2024



NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON.

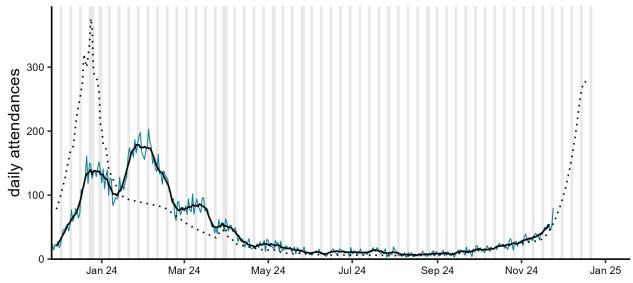
Black line is 7 day moving average adjusted for bank holidays.

Black dotted line is baseline.

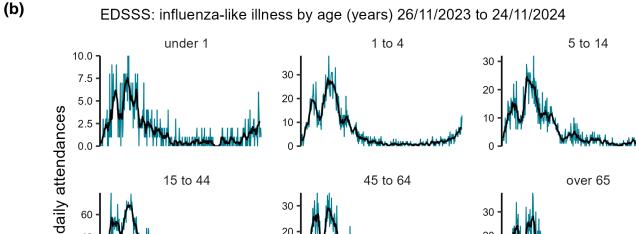
Influenza-like illness

Figure 5: Daily number of influenza-like illness ED attendances (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by age and (c) by UKHSA Region.





Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.



15 to 44 45 to 64 over 65

30 20 10 Feb 24 May 24 Aug 24 Nov 24

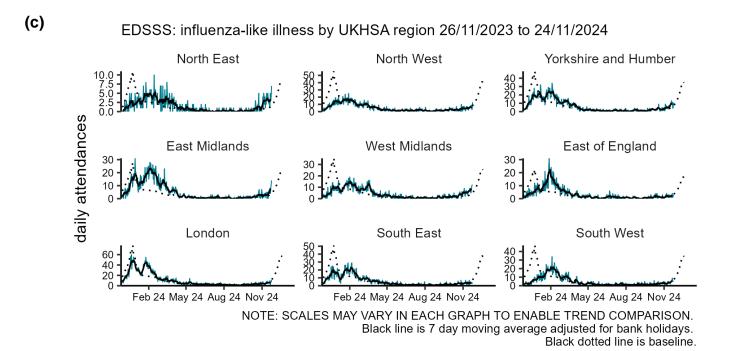
Feb 24 May 24 Aug 24 Nov 24

Aug 24 Nov 24

Feb 24 May 24 Aug 24 Nov 24

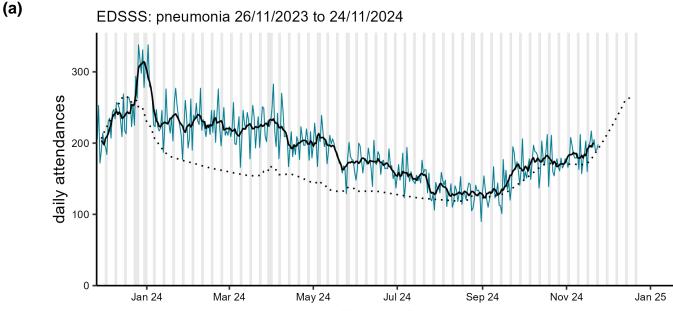
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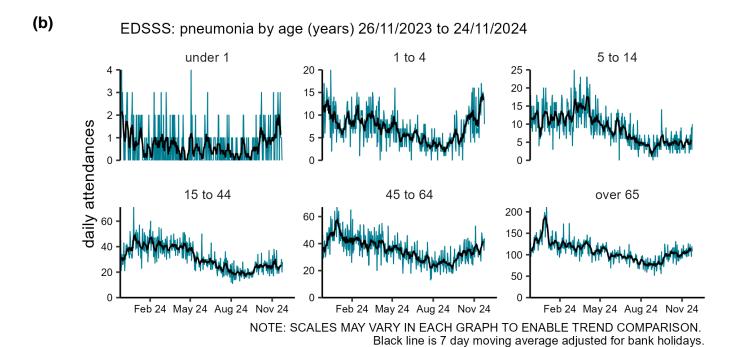
Black line is 7 day moving average adjusted for bank holidays.

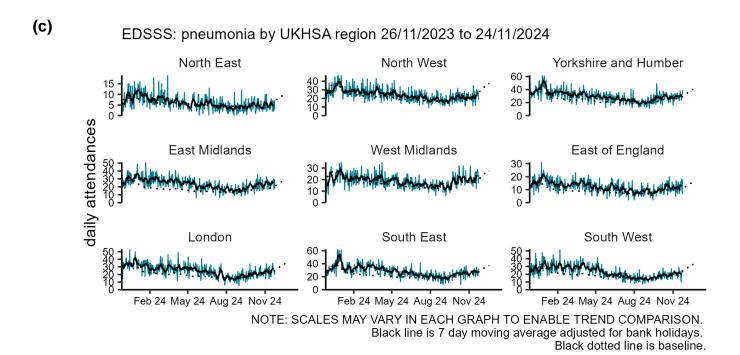


Pneumonia

Figure 6: Daily number of pneumonia ED attendances (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by age and (c) by UKHSA Region.

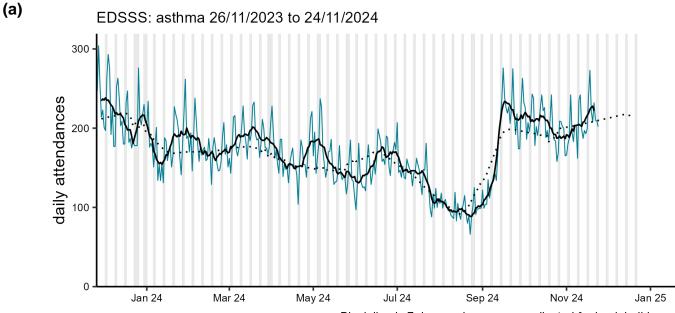


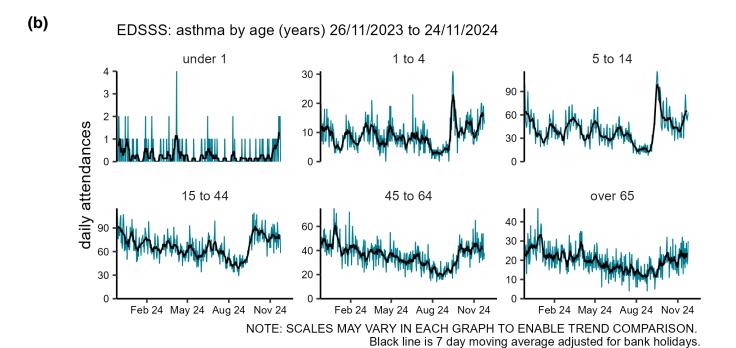


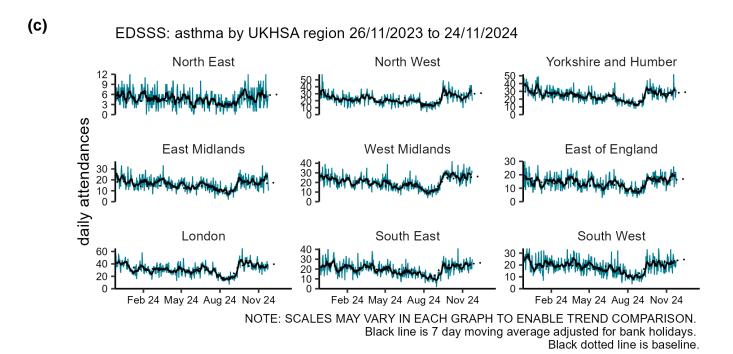


Asthma

Figure 7: Daily number of asthma ED attendances (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by age and (c) by UKHSA Region.







Gastrointestinal conditions

Gastroenteritis

Jan 24

Mar 24

Figure 8: Daily number of gastroenteritis ED attendances (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by age and (c) by UKHSA Region.

EDSSS: gastroenteritis 26/11/2023 to 24/11/2024

May 24

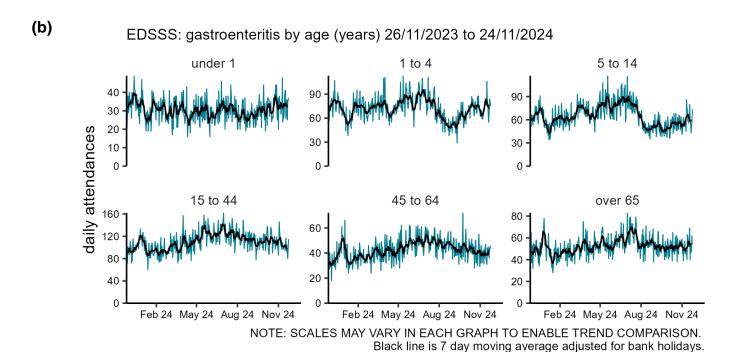
Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.

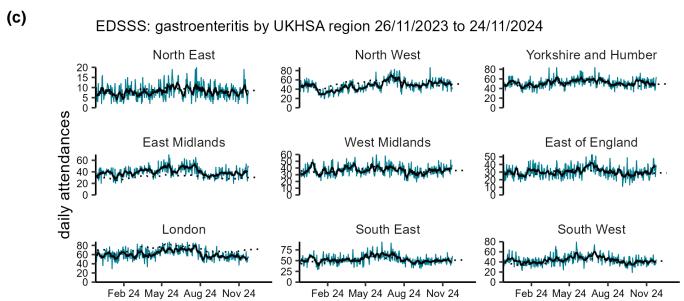
Sep 24

Nov 24

Jan 25

Jul 24



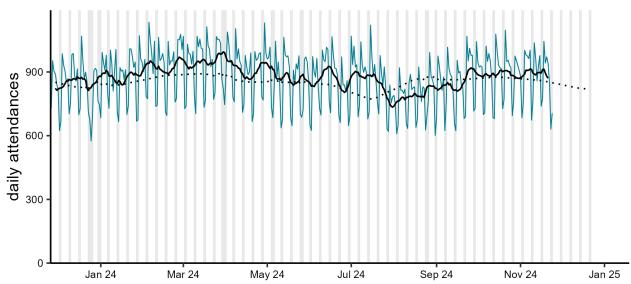


Cardiac conditions

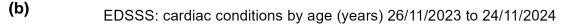
Cardiac

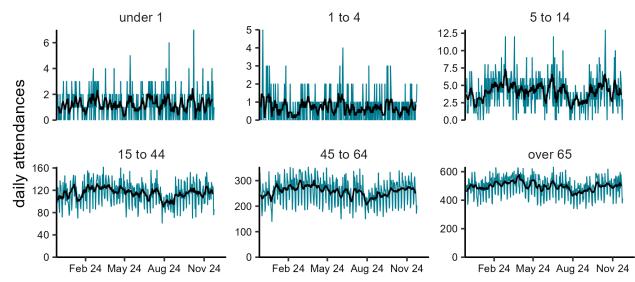
Figure 9: Daily number of cardiac ED attendances (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by age and (c) by UKHSA Region.





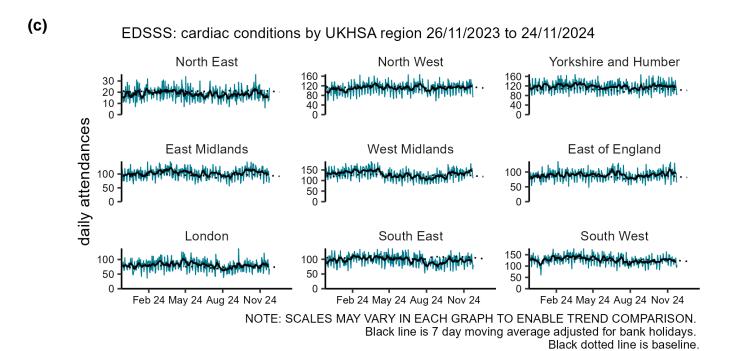
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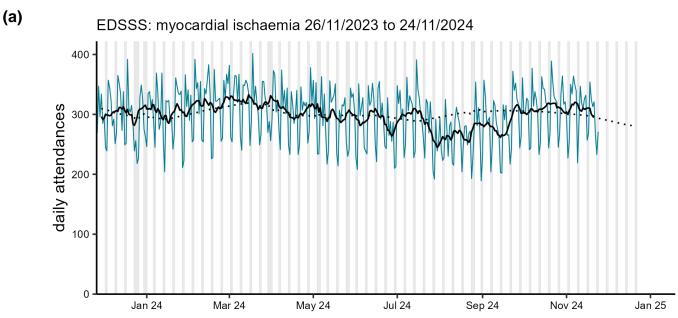
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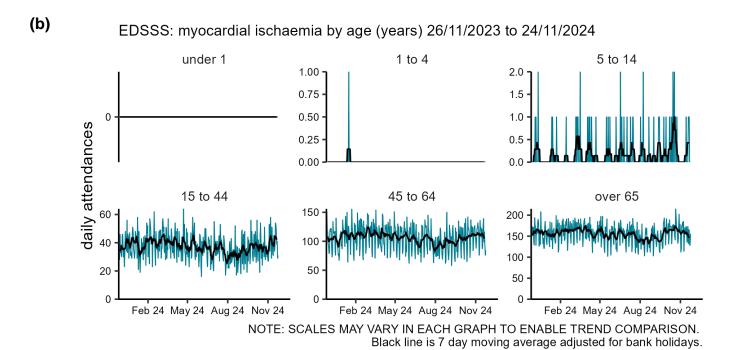
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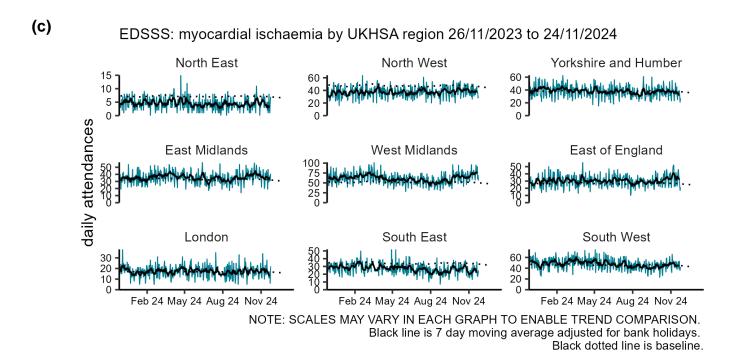


Myocardial ischaemia

Figure 10: Daily number of myocardial ischaemia ED attendances (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by age and (c) by UKHSA Region.







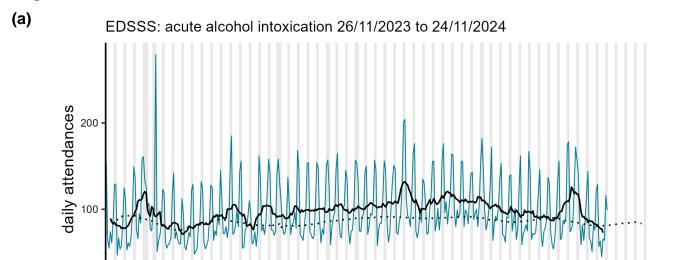
. Mar 24

Jan 24

Other conditions

Acute alcohol intoxication

Figure 11: Daily number of acute alcohol intoxication ED attendances (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by age and (c) by UKHSA Region.



May 24

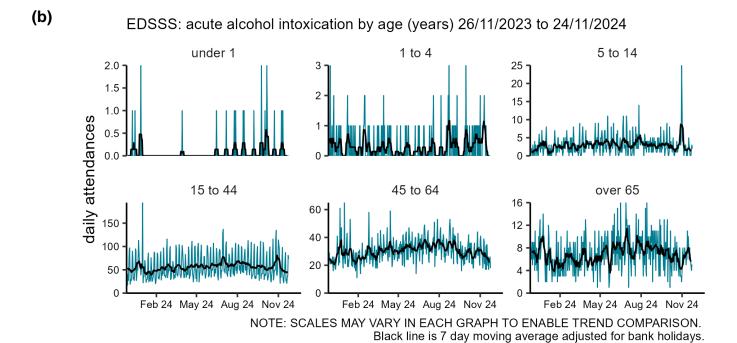
Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.

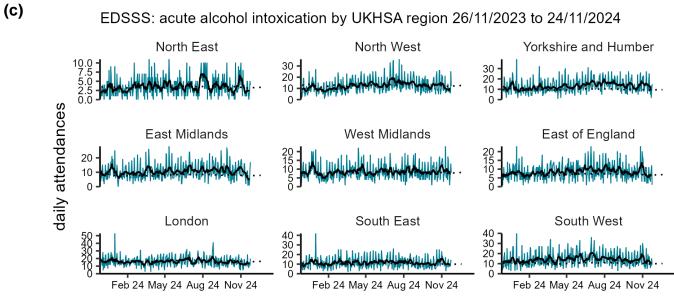
Sep 24

Nov 24

Jan 25

Jul 24



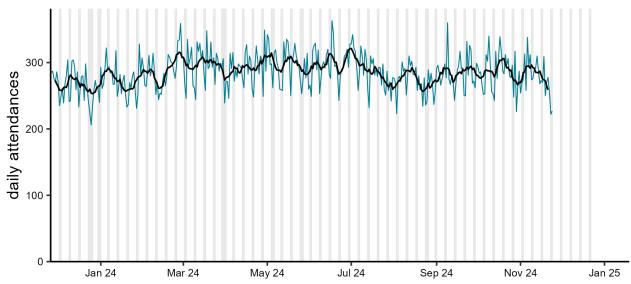


Mental health

Figure 12: Daily number of mental health³ ED attendances (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by age and (c) by UKHSA Region.

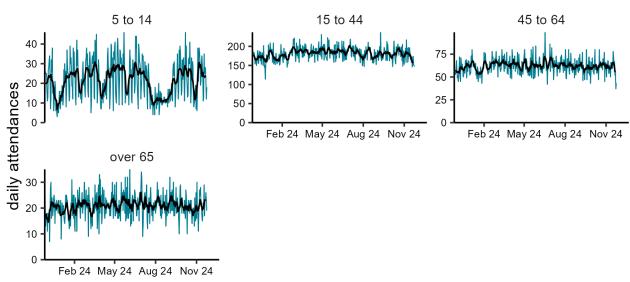
³ mental health attendances reported here are those with a primary diagnosis in the ECDS mental health diagnosis grouping. Attendances where the primary diagnosis relates to overdose, alcohol use or self harm are not included.





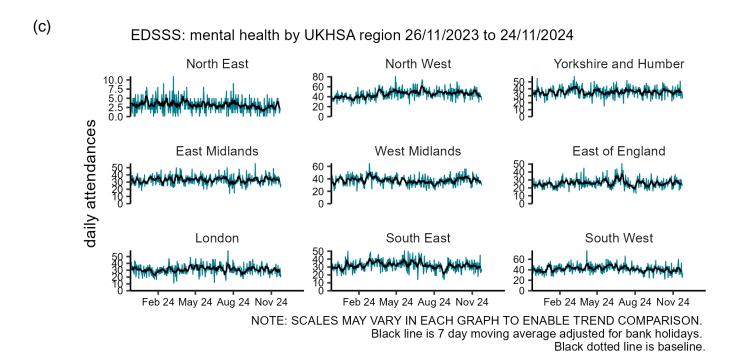
Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.

(b) EDSSS: mental health by age (years) 26/11/2023 to 24/11/2024



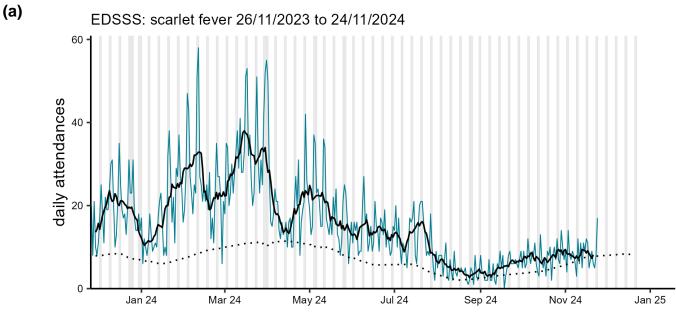
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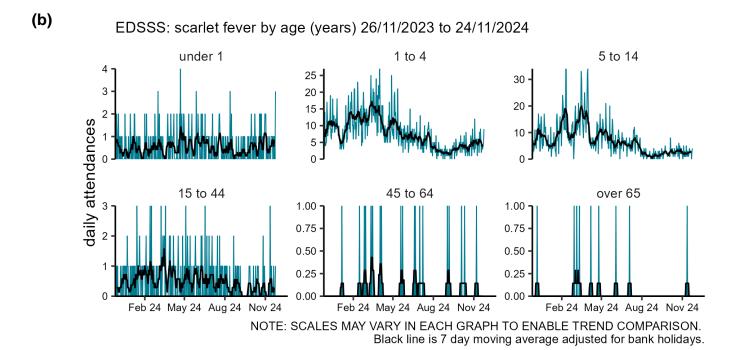
Black line is 7 day moving average adjusted for bank holidays.

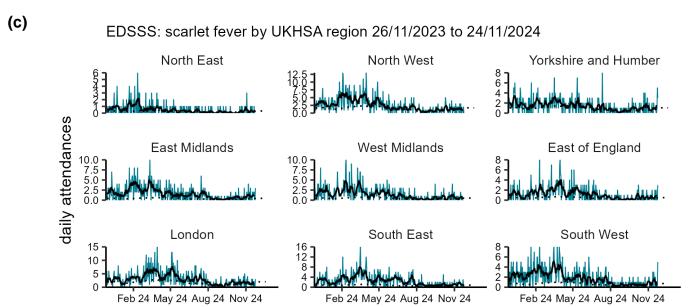


Scarlet fever

Figure 13: Daily number of scarlet fever ED attendances (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by age and (c) by UKHSA Region.







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Black line is 7 day moving average adjusted for bank holidays.

Black dotted line is baseline.

Seasonal environmental conditions

UKHSA and the Met Office operate a weather-health alert system that includes both heat and cold weather alert periods. Syndromic indicators are used to monitor the impact of both extreme hot and cold weather in England during these periods and will be routinely included below (where an appropriate syndromic indicator is available).

Cold weather alert period: 1 November to 31 March

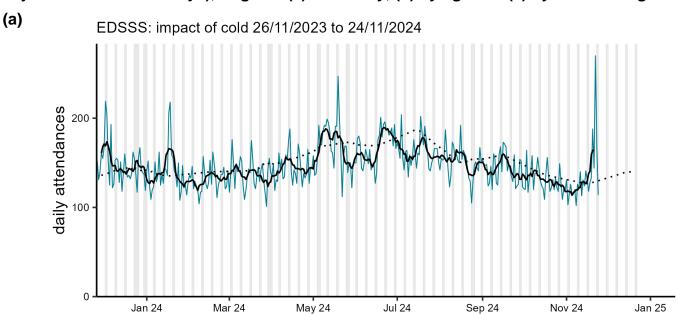
Heat-Health Alert period: 1 June to 30 September

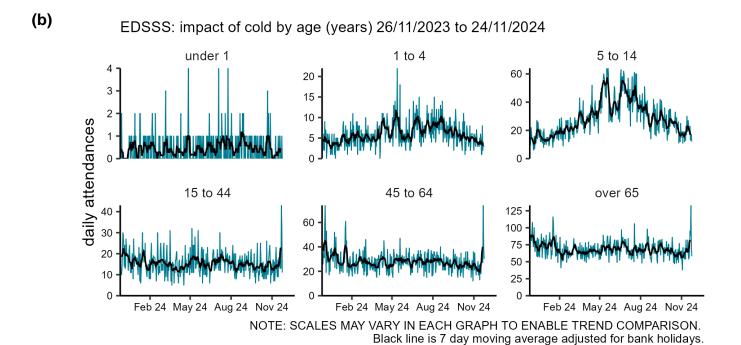
Highest weather alert level during the current reporting week:

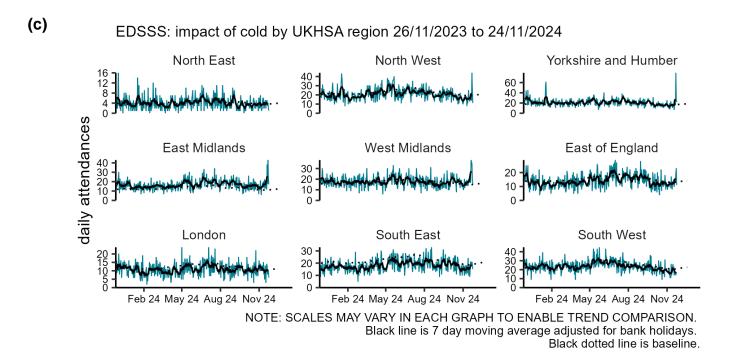
Amber alert (enhanced cold weather response).

Impact of cold

Figure 14: Daily number of impact of cold ED attendances (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by age and (c) by UKHSA Region.







Notes and caveats

The following additional caveats apply to the UKHSA emergency department syndromic surveillance system:

- the data presented are based on a national syndromic surveillance system:
 - o should be used to monitor trends not to estimate numbers of 'cases'
 - an automated daily transfer of anonymised ED data is received from NHS Digital, from the <u>Emergency Care Data Set</u> (ECDS)
 - not all EDs currently provide data on a daily basis, EDs are eligible for inclusion in this report only where:
 - data relates to attendances at a type 01 ED
 - data for 7 of the 7 most recent days was received
 - data for those days was received within 2 calendar days of the patient arrival
 - when an ED meets these criteria, all historical data from that ED is included
 - EDs included each week is likely to change, which will affect the historical data inclusion
 - o national coverage each week is included in Table 2,
 - o the number of EDs in each region area is described in Table 3
- individual EDs will not be identified in these bulletins.
- some syndromic indicators are hierarchical:
 - acute respiratory infections includes:
 - COVID-19-like

- influenza-like illness
- acute bronchitis or bronchiolitis
- pneumonia
- other and non-specific acute respiratory infections
- o cardiac conditions includes:
 - myocardial ischaemia
 - other and non-specific cardiac conditions
- baselines:
 - were last remodelled January 2023 (influenza-like illness baselines were refitted to influenza-like illness surveillance data during December 2023 to account for post-COVID-19 changes in health care seeking behaviour)
 - o for asthma were last remodelled October 2024
 - are constructed from historical data since April 2018
 - represent seasonally expected levels of activity
 - take account of any known substantial changes in data collection, population coverage or reporting practices:
 - the COVID-19 pandemic period is excluded, to show seasonally expected levels if COVID-19 had not occurred

 may be remodelled to include the impacts seen during periods of the COVID-19 pandemic if/when appropriate due to introduction of large scale public health interventions which may affect ED attendance levels

Acknowledgements

We are grateful to the clinicians in each ED and other staff within each Trust for their continued involvement in the EDSSS.

We thank the Royal College of Emergency Medicine, NHS Digital and NHS England for their support in the development of national EDSSS, using anonymised data collection from ECDS.

About the UK Health Security Agency

UKHSA is responsible for protecting every member of every community from the impact of infectious diseases, chemical, biological, radiological and nuclear incidents and other health threats. We provide intellectual, scientific and operational leadership at national and local level, as well as on the global stage, to make the nation heath secure.

UKHSA is an executive agency, sponsored by the Department of Health and Social Care.

www.gov.uk/government/organisations/uk-health-security-agency

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