



UK Health  
Security  
Agency

# **Ambulance syndromic surveillance system bulletin (England)**

## **2024 week 39**

## Key messages

**Data reported to: 29 September 2024**

During week 39, daily ambulance calls for difficulty breathing stabilised and are currently above expected levels.

## Syndromic indicators at a glance

**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	Level
Difficulty breathing ( <b>Figure 1</b> )	No trend	Above baseline
Chest pain ( <b>Figure 2</b> )	No trend	Above baseline
Cardiac or respiratory arrest ( <b>Figure 3</b> )	No trend	Similar to baseline
Impact of heat or cold ( <b>Figure 4</b> )	No trend	Similar to baseline
Headache ( <b>Figure 5</b> )	Increasing	Below baseline
Unconscious or passing out ( <b>Figure 6</b> )	Decreasing	Below baseline
Collapsed with unknown problem ( <b>Figure 7</b> )	No trend	Above baseline
Allergic reactions ( <b>Figure 8</b> )	Increasing	Similar to baseline
Injuries ( <b>Figure 9</b> )	No trend	Above baseline
Overdose or ingestion or poisoning ( <b>Figure 10</b> )	No trend	Below baseline

## System coverage

**Table 2: The number of ambulance Trusts included in surveillance each day during the most recent week.**

Date	Number of ambulance Trusts <sup>1</sup>
23 September 2024	8
24 September 2024	8
25 September 2024	8
26 September 2024	8
27 September 2024	8
28 September 2024	8
29 September 2024	8

<sup>1</sup> maximum 10 Trusts in England

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# About this syndromic surveillance system

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

Syndromic surveillance can be used to:

- assess current trends
- 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 ambulance call data are analysed and reported here, to identify and describe trends for a variety of syndromic indicators:

- syndromic indicators include groupings such as difficulty breathing, chest pain and injuries
- syndromic indicators are based on:
  - information gathered during the initial call
  - signs/symptoms and may not be laboratory confirmed
- **Key messages** describes any notable trends nationally (England), 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 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 the **Notes and caveats** section.

Previous weekly bulletins from this system are available [here](#).

## Data quality issues of note this week

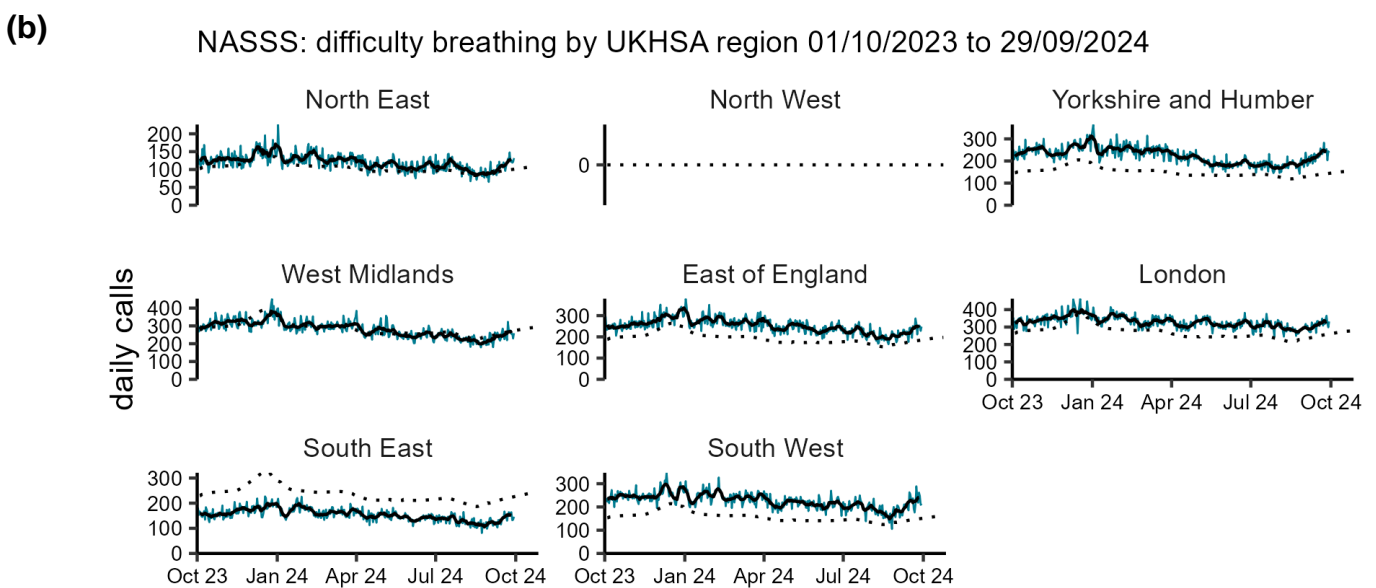
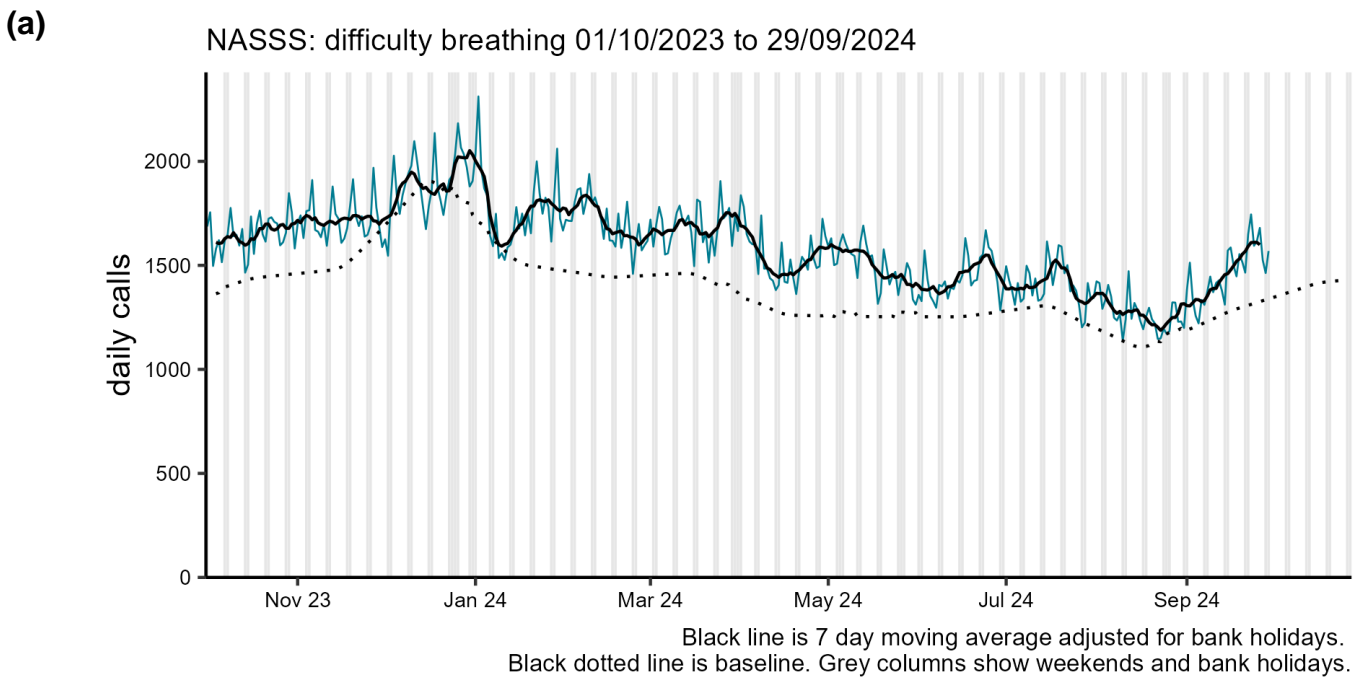
Due to ongoing technical problems call data from North West Ambulance Service and East Midlands Ambulance Service are not available for inclusion in this bulletin.

See **Table 2** for the number of Trusts included in the most recent week, indicating where data has not arrived at the time of this report production. All historical data are complete.

# Respiratory conditions

## Difficulty breathing

**Figure 1: Daily number of difficulty breathing ambulance service calls (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by UKHSA Region. Please note there is minimal usage of this syndromic indicator by the East Midlands Ambulance Service before 26<sup>th</sup> June 2023.**

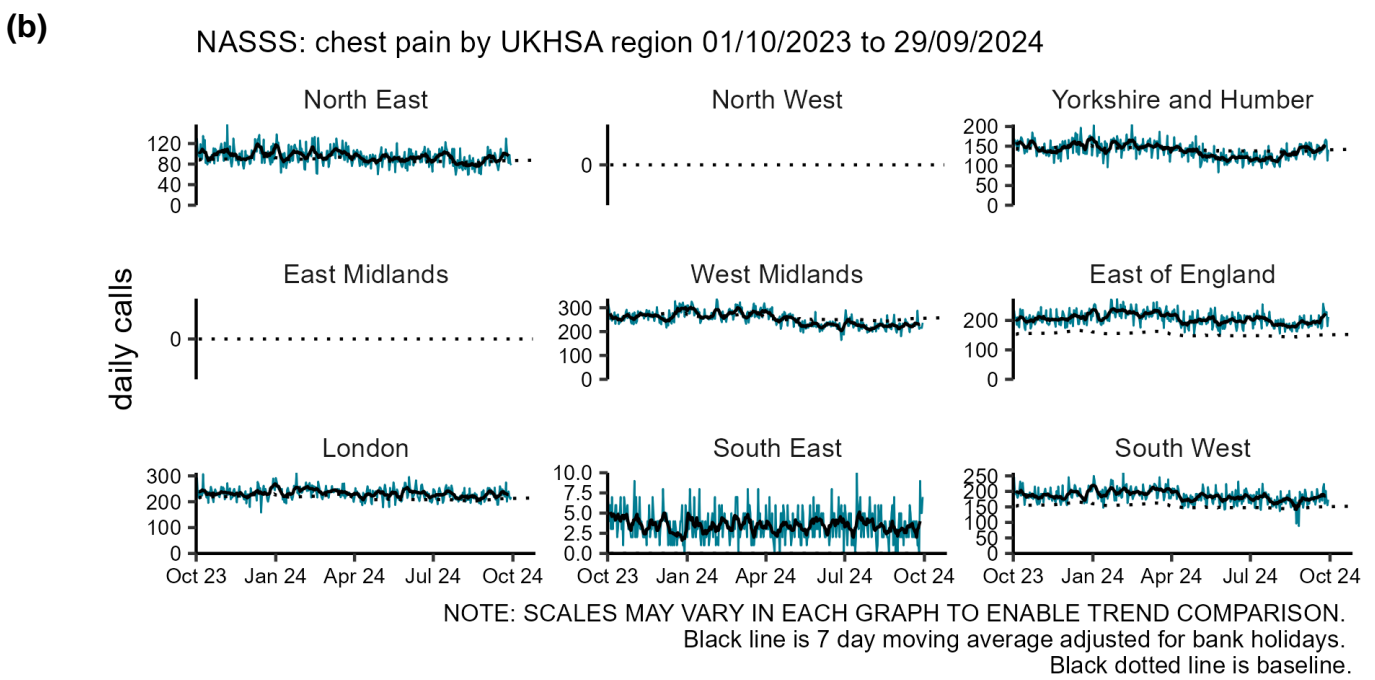
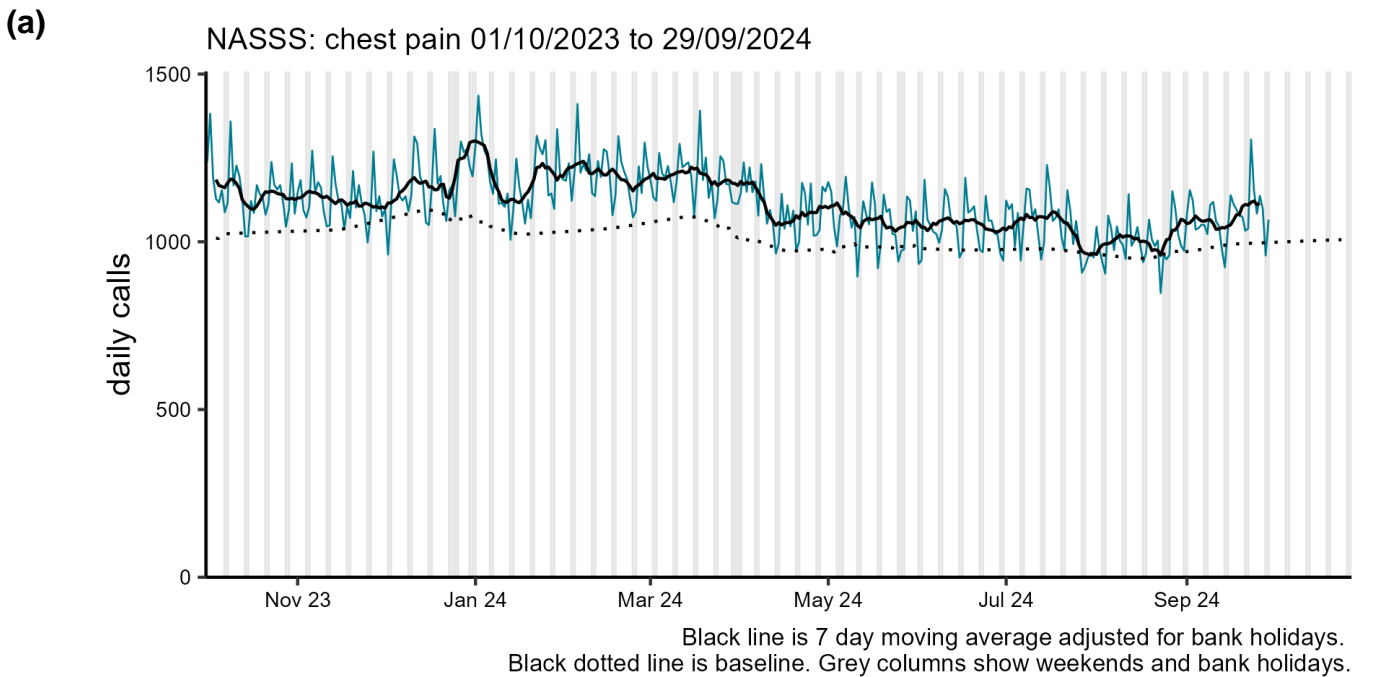


NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON.  
Black line is 7 day moving average adjusted for bank holidays.  
Black dotted line is baseline.

# Cardiac conditions

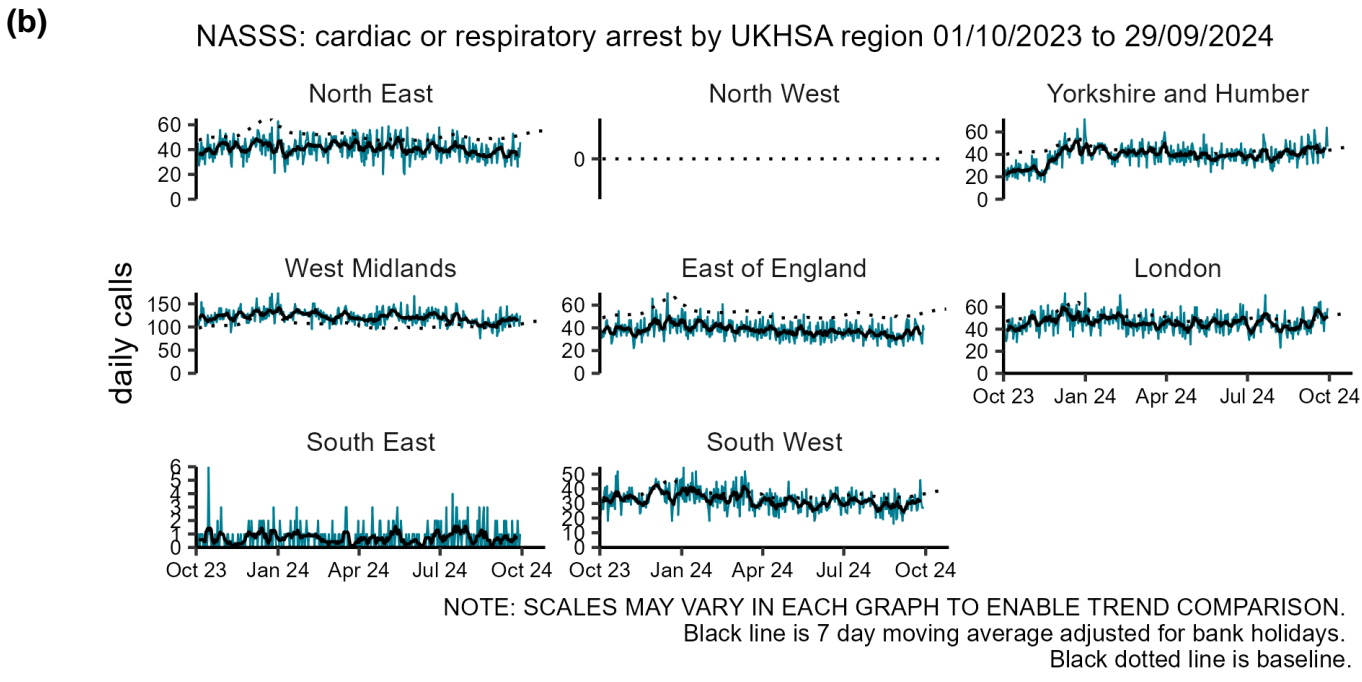
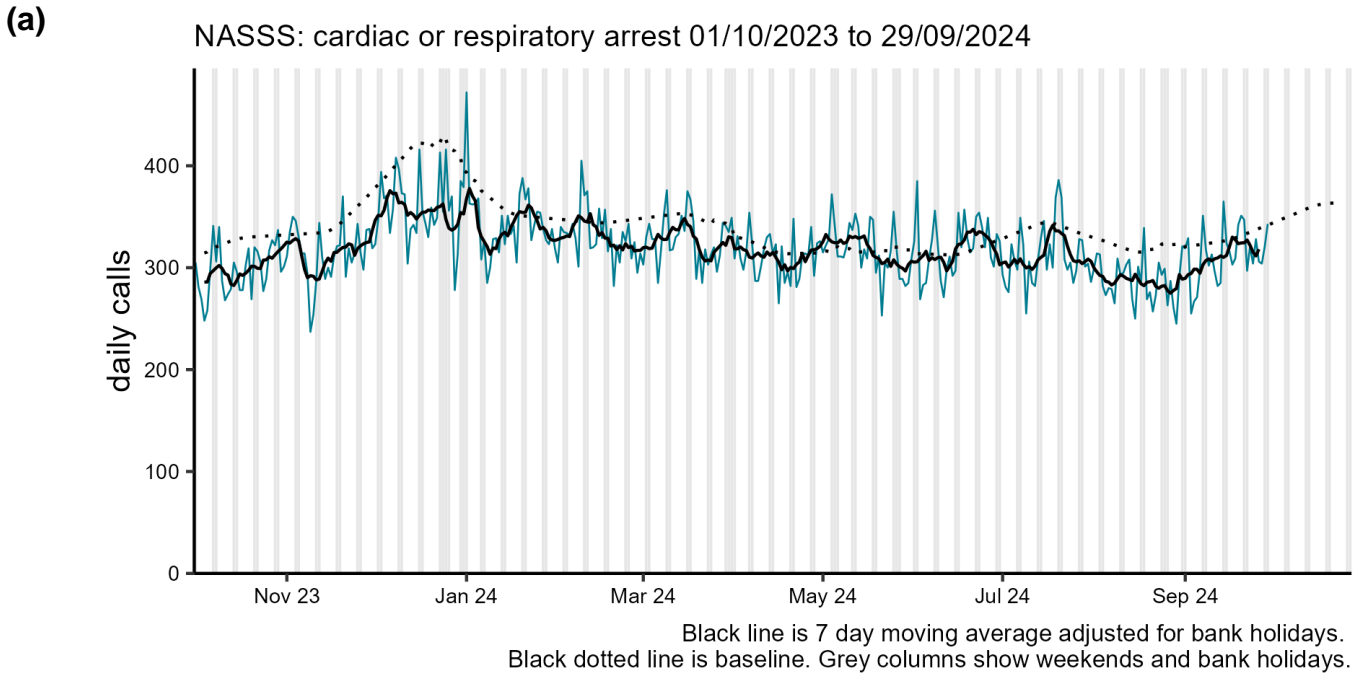
## Chest pain

**Figure 2: Daily number of chest pain ambulance service calls (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by UKHSA Region.**



# Cardiac or respiratory arrest

**Figure 3: Daily number of cardiac or respiratory arrest ambulance service calls (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by UKHSA Region. Please note there is minimal usage of this syndromic indicator by the East Midlands Ambulance Service.**



## Seasonal or 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 routinely be 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

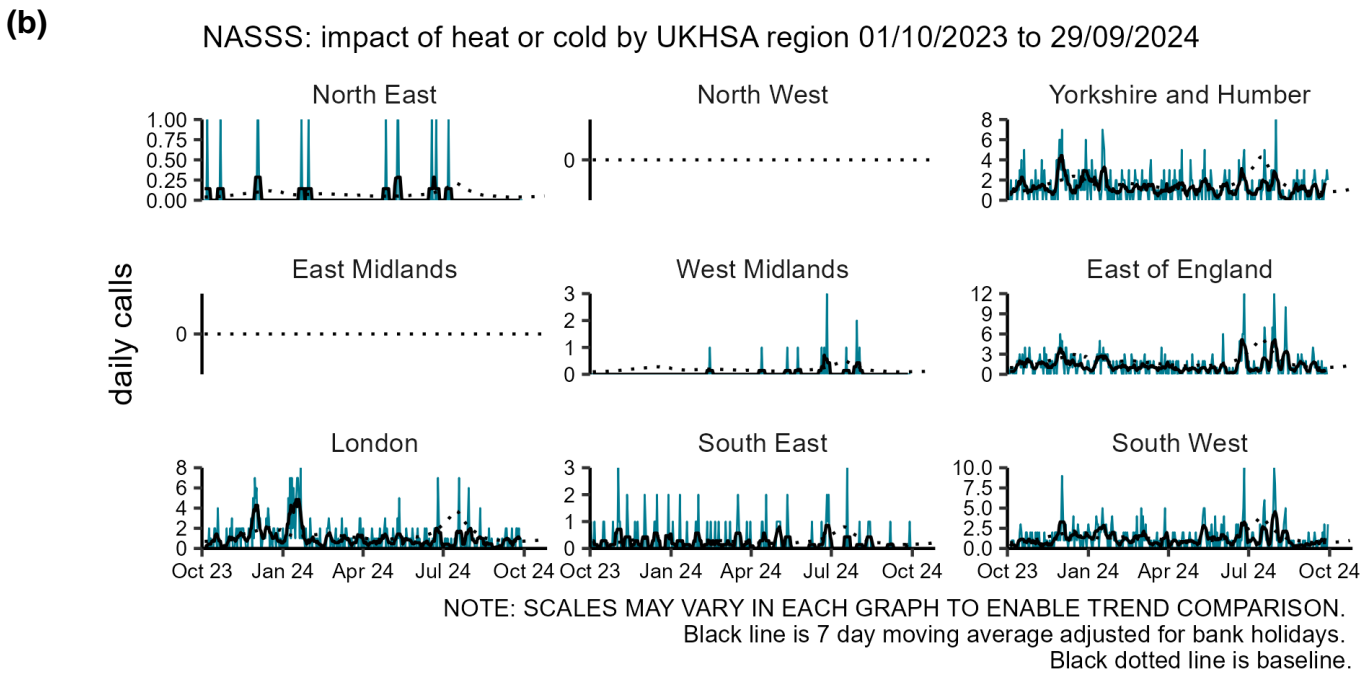
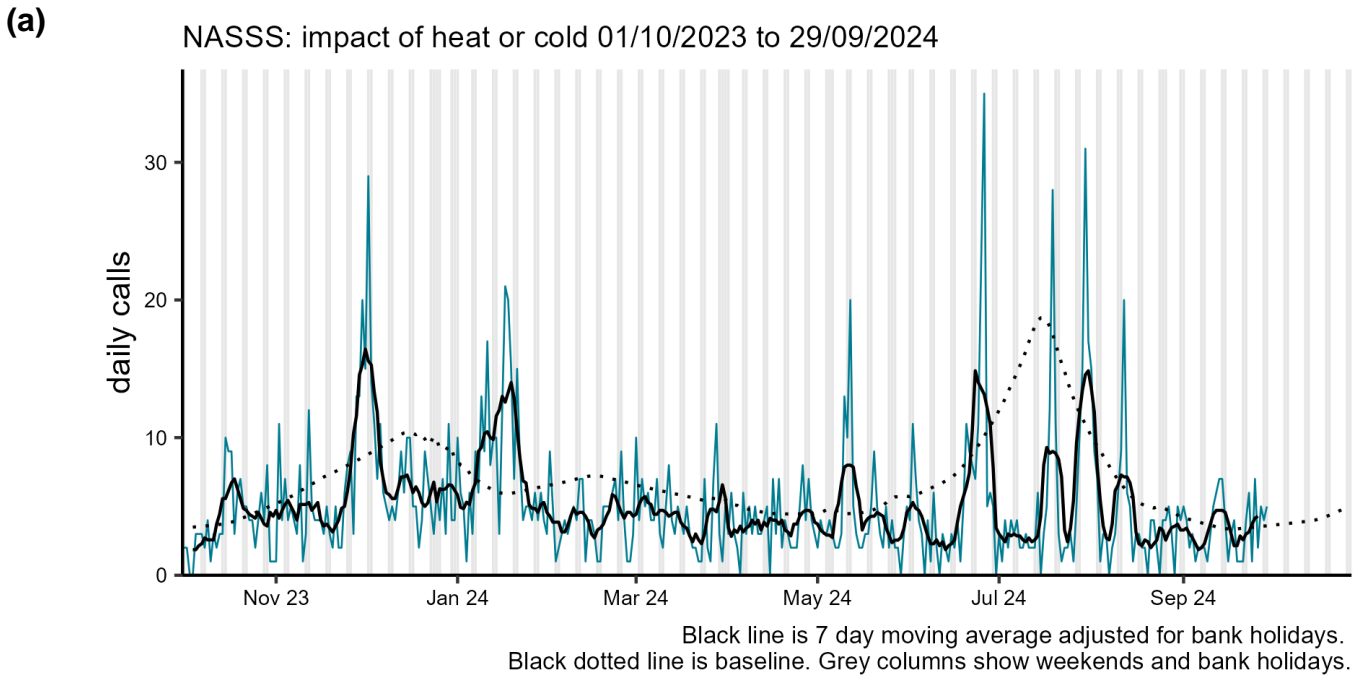
Highest weather alert during the current reporting week:

**No alerts issued.**



# Impact of heat or cold

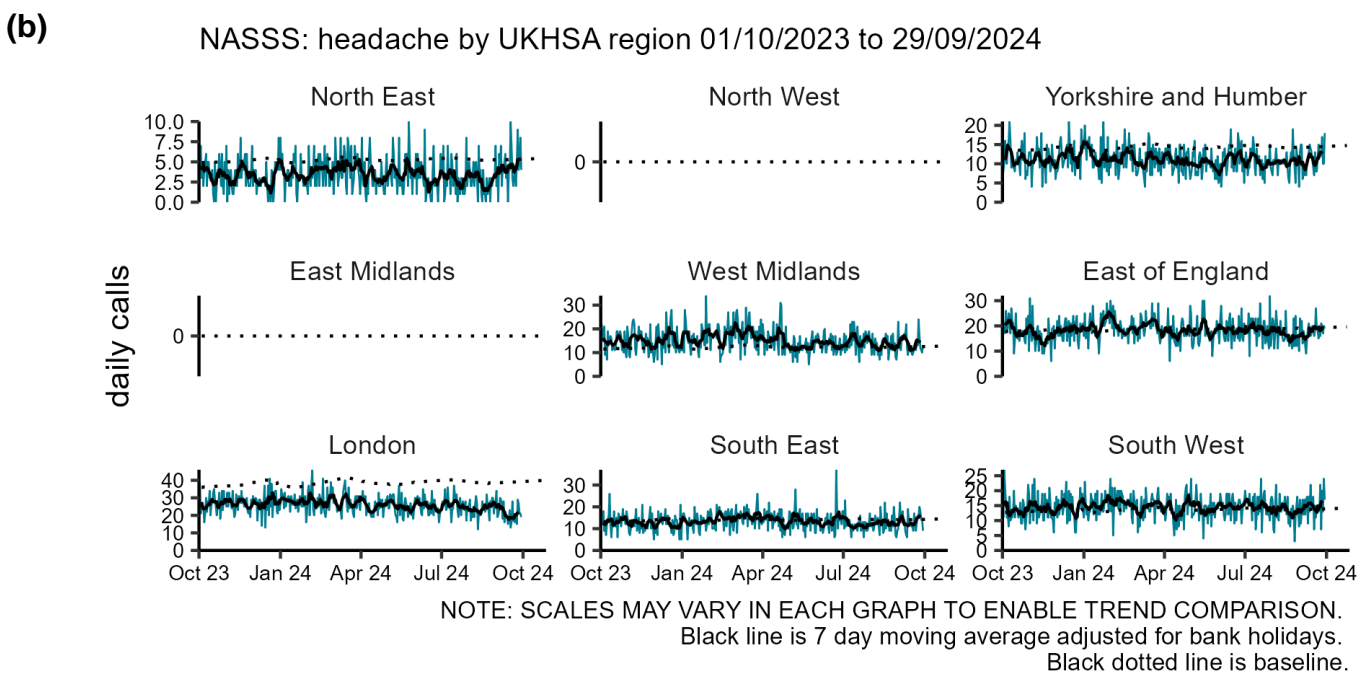
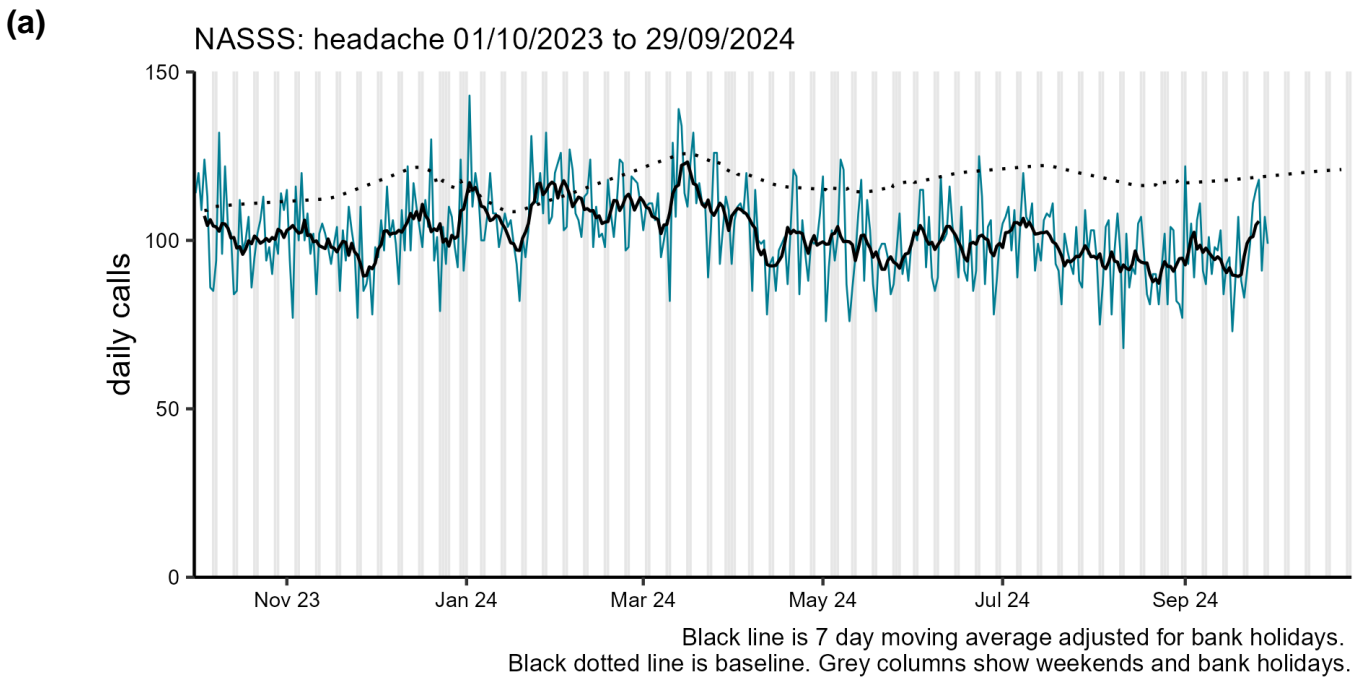
**Figure 4: Daily number of heat or cold related ambulance service calls (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by UKHSA Region.**



# Other conditions

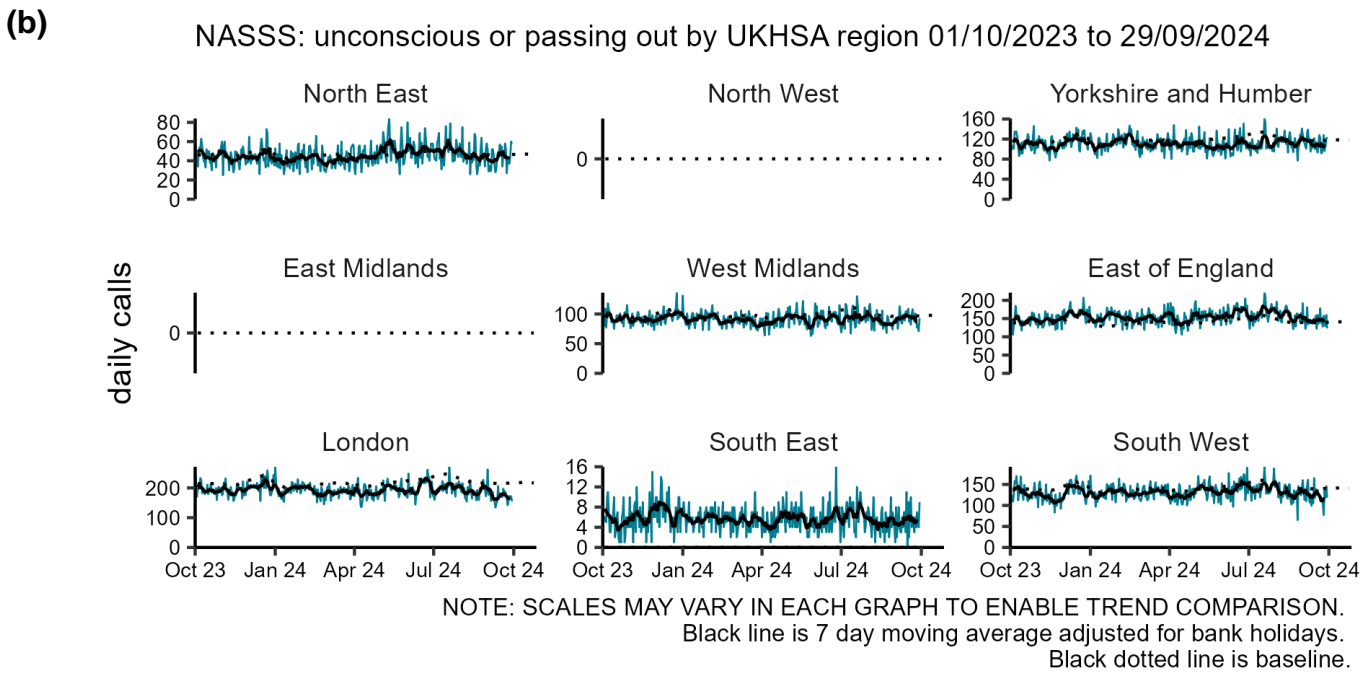
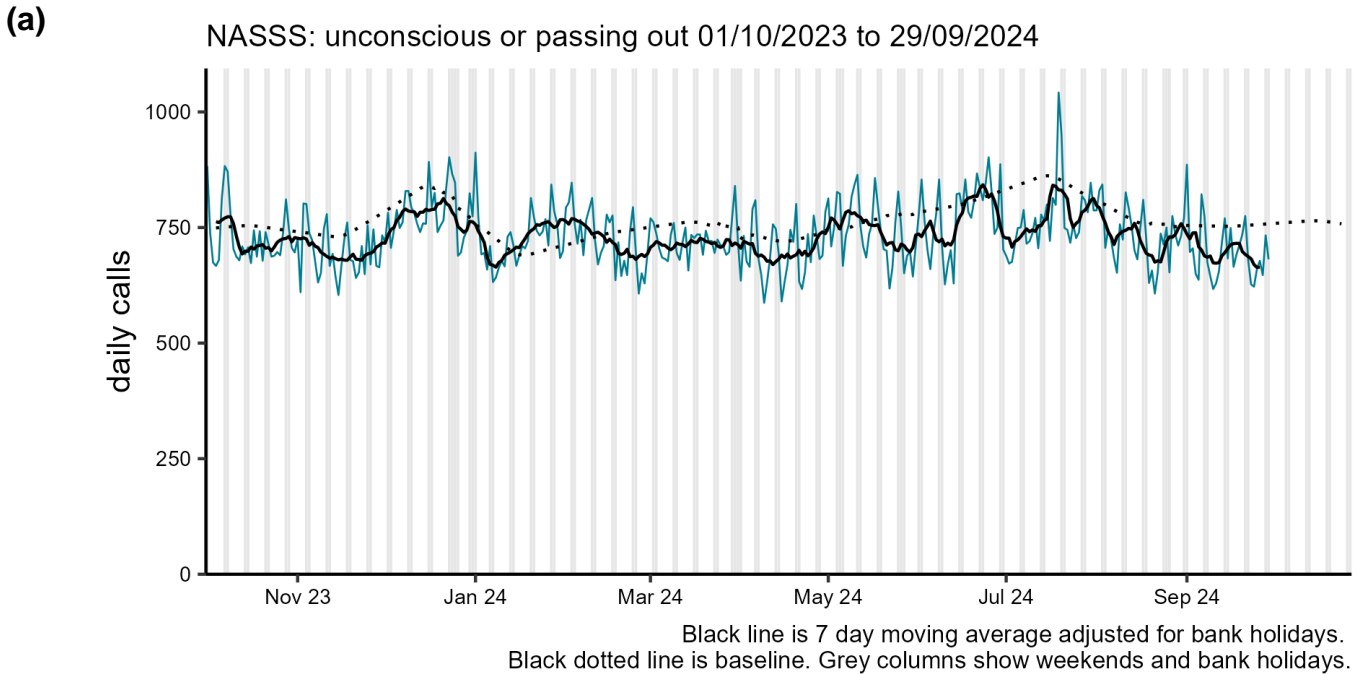
## Headache

**Figure 5: Daily number of headache ambulance service calls (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by UKHSA Region.**



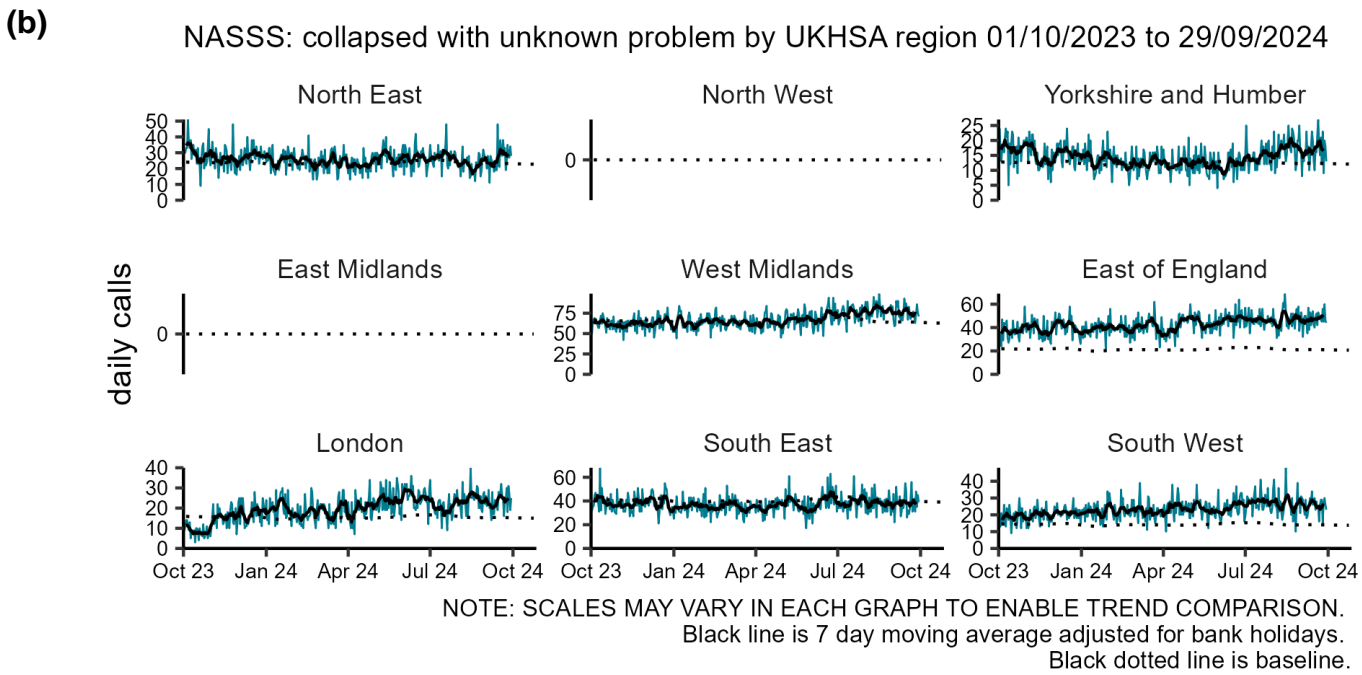
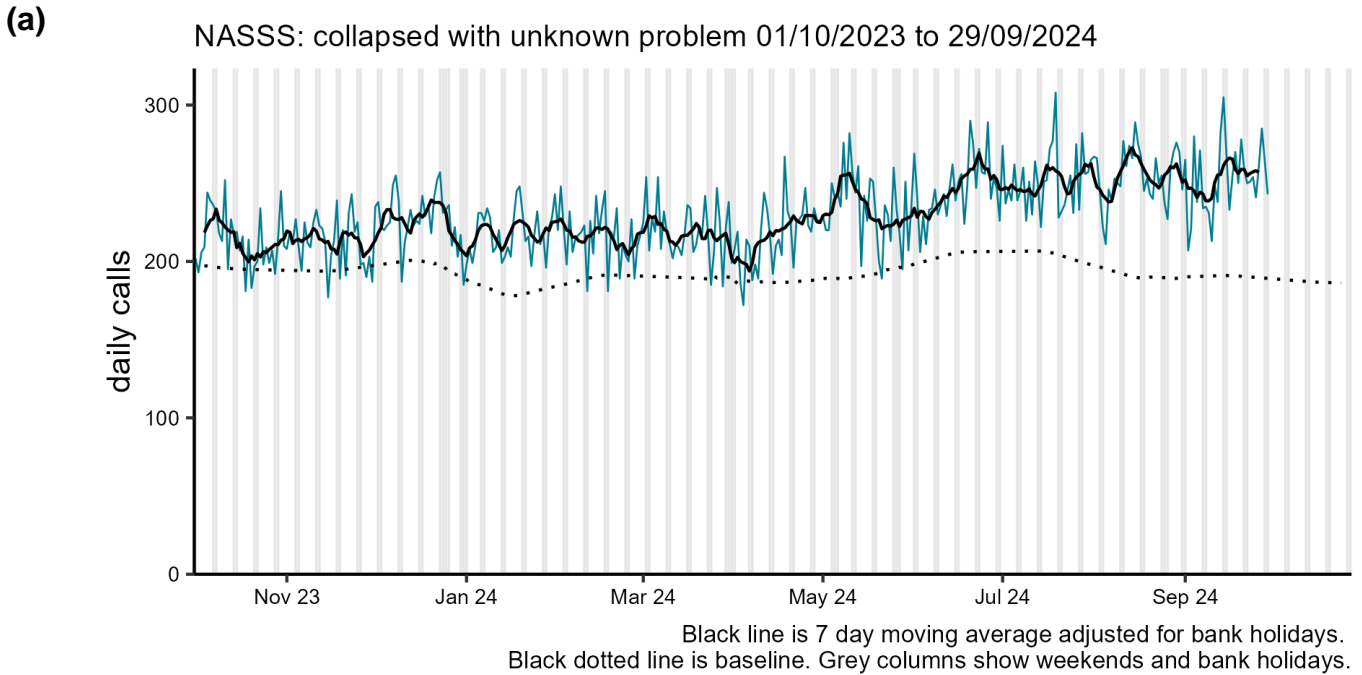
# Unconscious or passing out

**Figure 6: Daily number of unconscious or passing out ambulance service calls (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by UKHSA Region.**



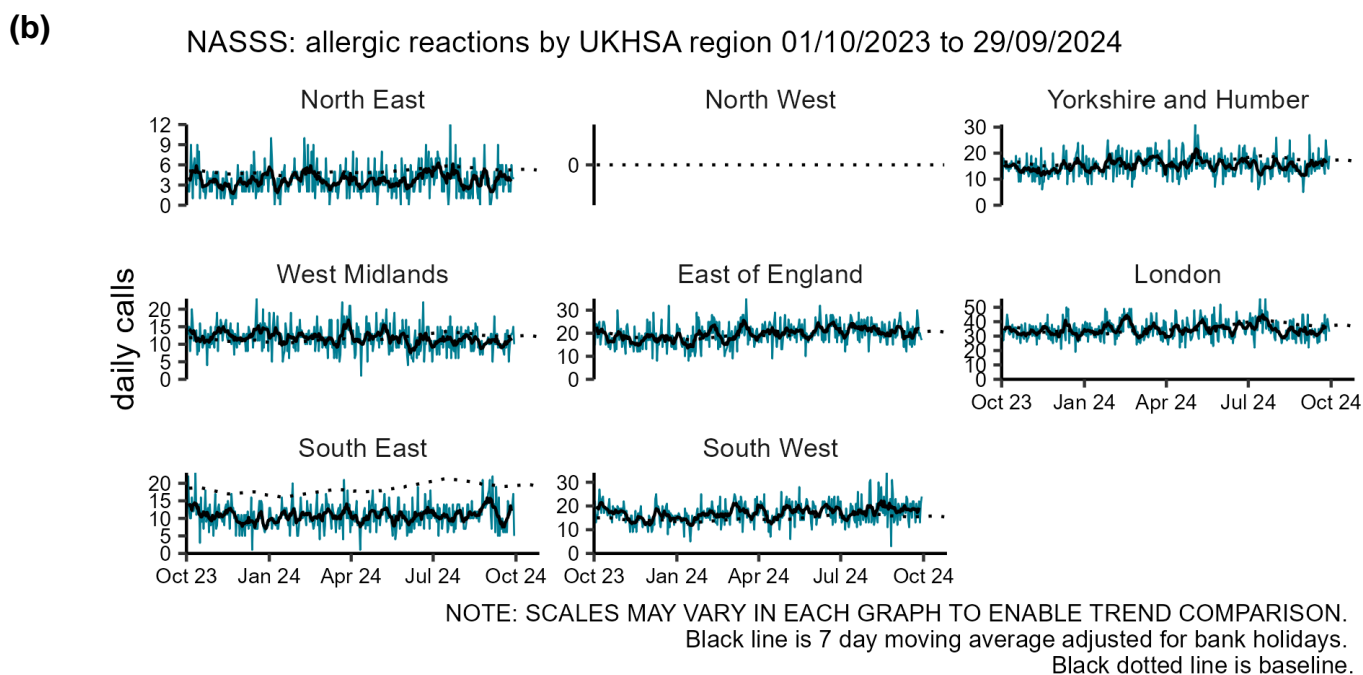
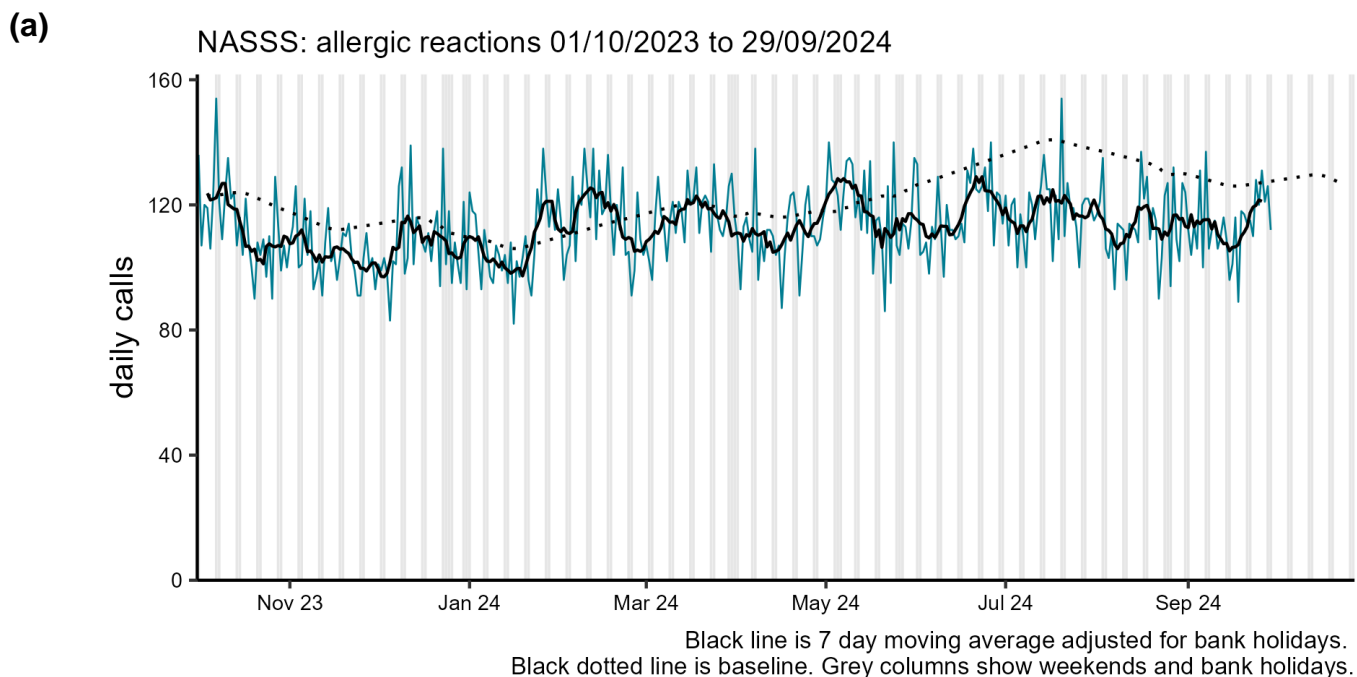
# Collapsed with unknown problem

**Figure 7: Daily number of collapsed with unknown problem ambulance service calls (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by UKHSA Region.**



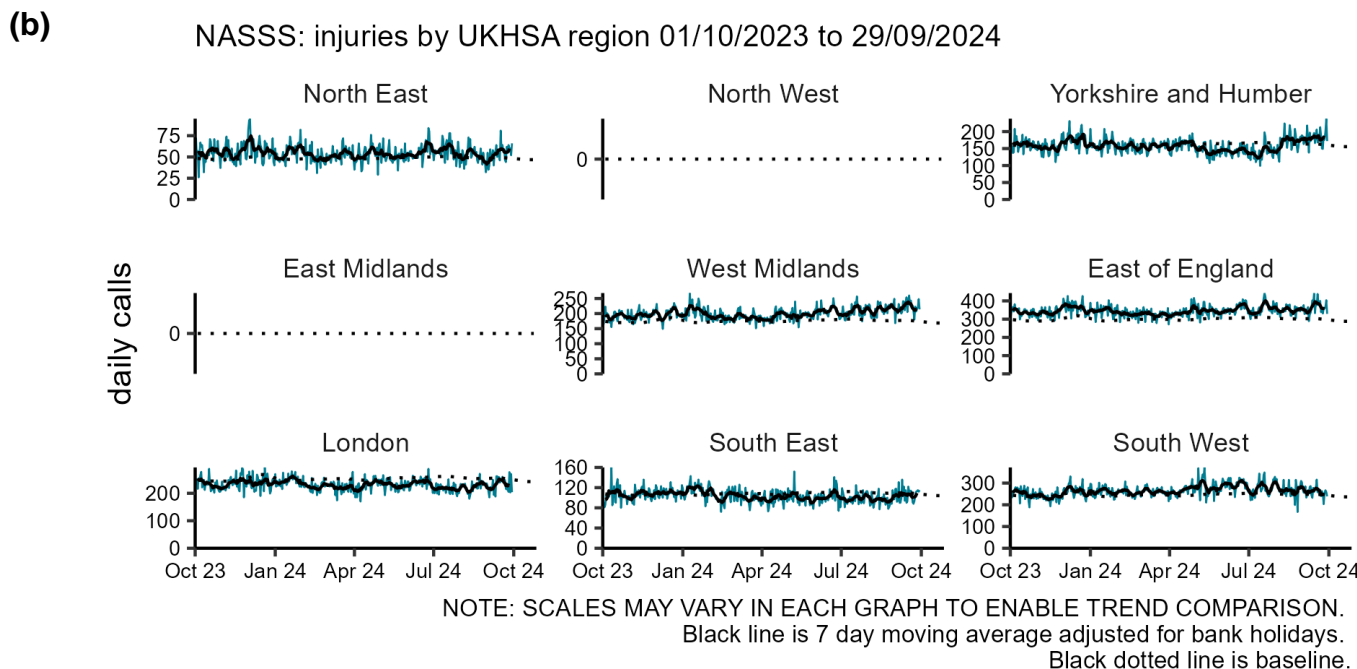
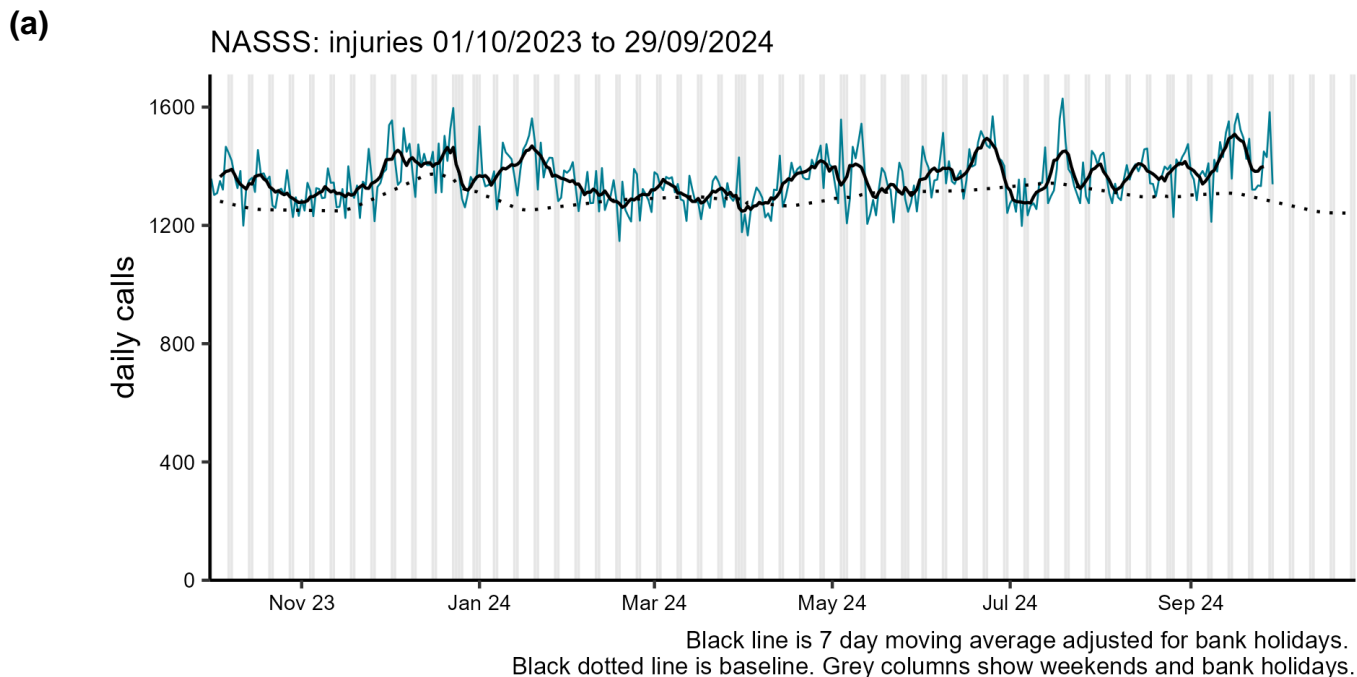
# Allergic reactions

**Figure 8: Daily number of allergic reactions ambulance service calls (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by UKHSA Region. Please note there was minimal usage of this syndromic indicator by the East Midlands Ambulance Service before 26<sup>th</sup> June 2023.**



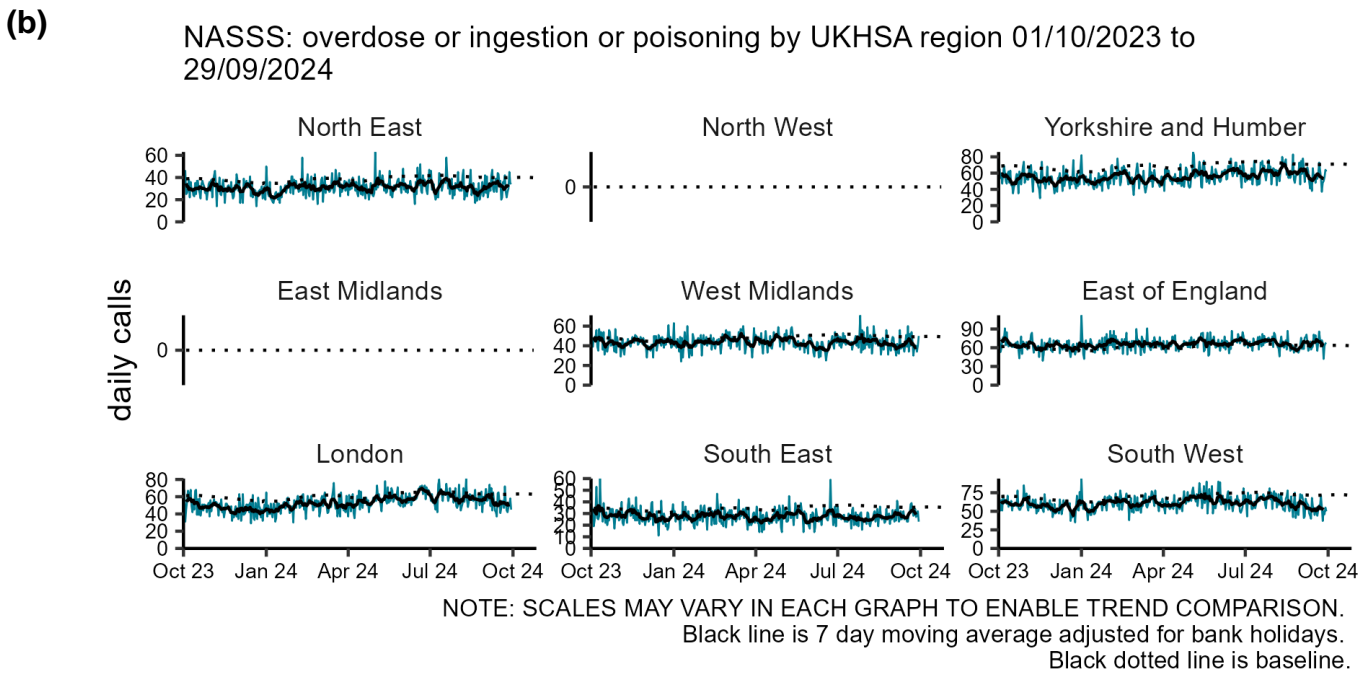
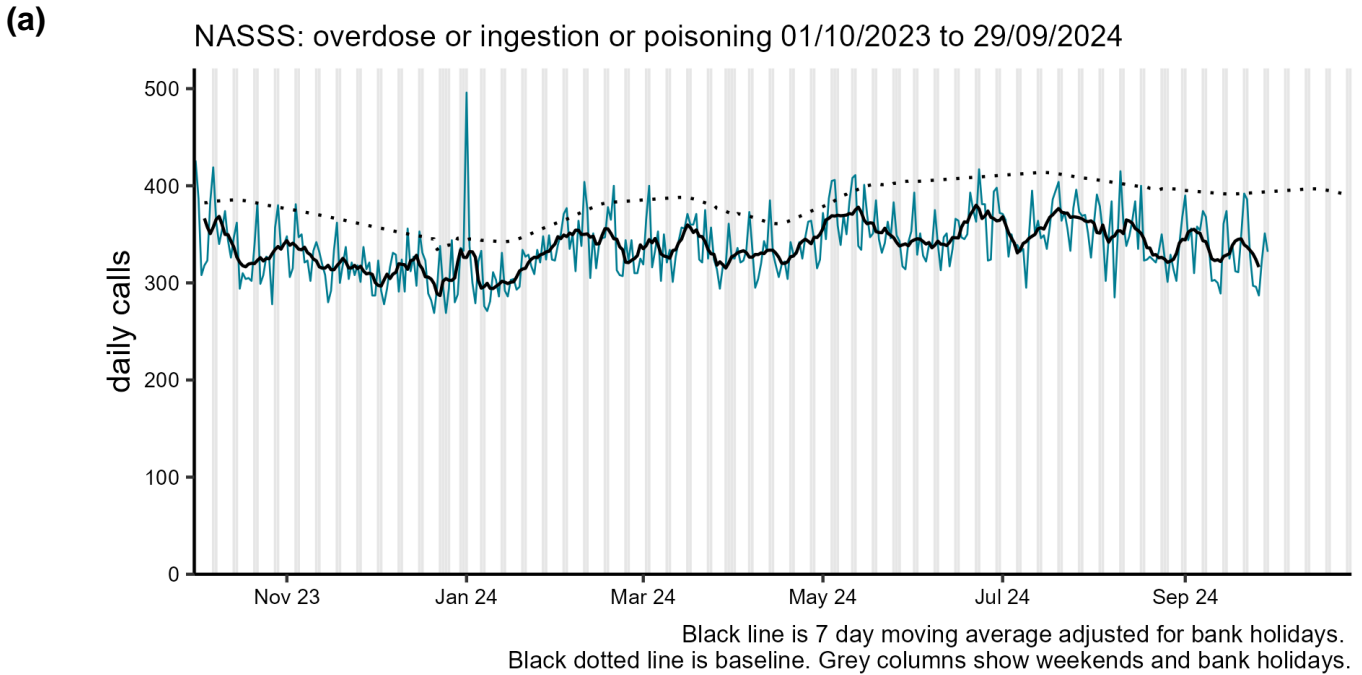
# Injuries

**Figure 9: Daily number of injury ambulance service calls (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by UKHSA Region.**



# Overdose or poisoning

**Figure 10: Daily number of overdose or poisoning ambulance service calls (and 7-day moving average adjusted for bank holidays), England (a) nationally, (b) by UKHSA Region.**



## Notes and caveats

The following additional caveats apply to the UKHSA ambulance syndromic surveillance system

- the data presented are based on a national syndromic surveillance system:
  - the 10 ambulance trusts in mainland England are included
  - the number of Trusts included each day of the most recent week is included in **Table 2**
  - indicating where data has not arrived at the time of this report production.  
All historical data is complete
- the signs/symptoms related to each call may be recorded differently by each ambulance Trust
  - there may be minimal usage of some syndromic indicators by some ambulance Trusts
  - the title for each set of syndromic indicator charts will describe which Trusts (if any) are affected
- baselines:
  - were last remodelled May 2023
  - are constructed from historical data since January 2019
  - 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



## Acknowledgements

We would like to thank:

- North East, North West, Yorkshire, East Midlands, West Midlands, East of England, London, South East Coast, South Central, and South Western NHS ambulance Trusts for submitting anonymised, daily data to this syndromic surveillance system
- the Association of Ambulance Chief Executives for their support in establishing this syndromic surveillance system

# 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 health secure.

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

[www.gov.uk/government/organisations/uk-health-security-agency](http://www.gov.uk/government/organisations/uk-health-security-agency)

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