

# Remote Health Advice Syndromic Surveillance System Bulletin (England) 2023 Week 52

# Key messages

#### Data reported to: 1 January

During week 52, there were increases in NHS 111 calls and online assessments for respiratory indicators, including cough and sore throat, particularly noted in adult age groups. However, activity in general remains at or below expected levels. 'Potential COVID-19' calls increased across all age groups aged 15 years and over. There were also increases noted in NHS 111 calls and online assessments for diarrhoea and vomiting in adults aged 15 years and over.

**Please note:** due to a technical issue, NHS 111 call data was not available for 22-26 and 28 December at the time of production of this bulletin. This data gap has artificially reduced 7-day moving averages and therefore call data and trends should be interpreted with some caution. This bulletin includes NHS 111 online data up to and including 1 January, including bank holidays, which are expected to result in increased use of NHS 111 services. The 7-day moving averages in all charts are adjusted to account for these bank holidays.

## Syndromic indicators at a glance

level (compared to the expected baseline), of each indicator included in this bulletin.		
Indicator	Trend <sup>1</sup>	Level
Total NHS 111 calls (Figure 1)	Increasing	No baseline
Total NHS 111 online (Figure 2)	Increasing	No baseline
Cold/flu NHS 111 calls (Figure 3)	Increasing	Below baseline
Cold/flu NHS 111 online (Figure 4)	Increasing	Below baseline
Fever NHS 111 calls (Figure 5)	No trend	Below baseline
Fever NHS 111 online (Figure 6)	No trend	Below baseline
Cough NHS 111 calls (Figure 7)	Increasing	Similar to baseline
Cough NHS 111 online (Figure 8)	Increasing	Similar to baseline
Difficulty breathing NHS 111 online (Figure 9)	Increasing	Below baseline
Sore throat NHS 111 calls (Figure 10)	Increasing	Below baseline
Sore throat NHS 111 online (Figure 11)	Increasing	Below baseline
Potential COVID-19 NHS 111 calls (Figure 12)	Increasing	No baseline
Potential COVID-19 NHS 111 online (Figure 13)	Increasing	No baseline
Diarrhoea NHS 111 calls (Figure 14)	Increasing	Above baseline
Diarrhoea NHS 111 online (Figure 15)	Increasing	Similar to baseline
Vomiting NHS 111 calls (Figure 16)	Increasing	Similar to baseline
Vomiting NHS 111 online (Figure 17)	Increasing	Similar to baseline
Eye problems NHS 111 calls (Figure 18)	Increasing	Similar to baseline
Eye problems NHS 111 online (Figure 19)	Increasing	Below baseline

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.

<sup>1</sup> trend reports on the trend seen over most recent and earlier weeks

# Contents

Key messages	2
Syndromic indicators at a glance	2
Contents	3
About this syndromic surveillance system	5
Total contacts	6
NHS 111 calls	6
NHS 111 online	8
Respiratory conditions	10
Cold/flu NHS 111 calls	10
Cold/flu NHS 111 online	12
Fever NHS 111 calls	14
Fever NHS 111 online	16
Cough NHS 111 calls	18
Cough NHS 111 online	20
Difficulty breathing NHS 111 online	22
Sore throat NHS 111 calls	24
Sore throat NHS 111 online	26
Potential COVID-19 NHS 111 calls	28
Potential COVID-19 NHS 111 online	
Gastrointestinal conditions	32
Diarrhoea NHS 111 calls	32
Diarrhoea NHS 111 online	34
Vomiting NHS 111 calls	
Vomiting NHS 111 online	
Seasonal environmental conditions	40
Eye problems NHS 111 calls	41
Eye problems NHS 111 online	43
Notes and caveats	45
COVID-19 syndromic surveillance	46

Acknowledgements	47
About the UK Health Security Agency	

## About this syndromic surveillance system

This bulletin presents data from the UK Health Security Agency (UKHSA) remote health advice 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 NHS 111 call and NHS 111 online assessment data are analysed and reported here, to identify and describe trends for a variety of syndromic indicators:

- syndromic indicators include groupings such as cold/flu, fever and diarrhoea
- syndromic indicators are based on:
  - symptoms (known as the Pathway) identified from both NHS 111 calls and NHS 111 online assessments
  - the potential COVID-19 syndromic indicator is based on the outcome (known as the Disposition), rather than the Pathway
- **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 the Notes and caveats section.

Previous weekly bulletins from this system are available here.

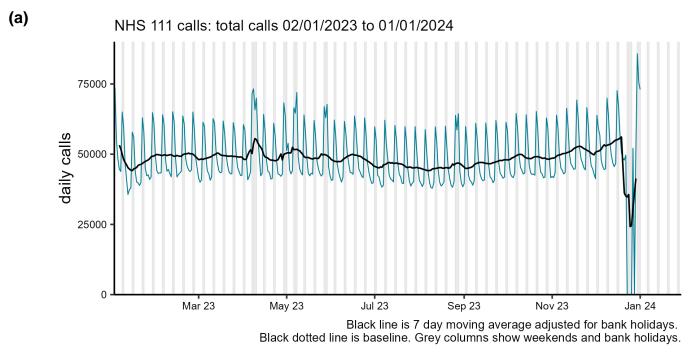
#### Data quality issues of note this week

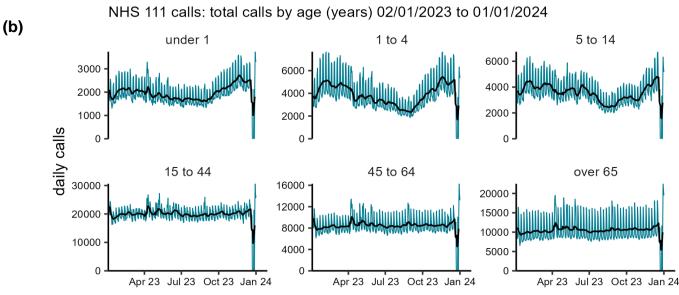
Due to a technical issue, NHS 111 call data were not available for 22-26 and 28 December at the time of production of this bulletin. This data gap has artificially reduced 7-day moving averages and therefore call data and trends should be interpreted with some caution. A new NHS Pathways Release has resulted in a change in the triage coding of 'difficulty breathing' calls. These changes are particularly in those regions where NHS 111 providers have adopted the first Pathways Releases (North East, East of England) and in age groups over 5 years old. Further national Pathways releases are planned in December 2023 and January 2024. The difficulty breathing call indicator has therefore been removed from this bulletin.

## **Total contacts**

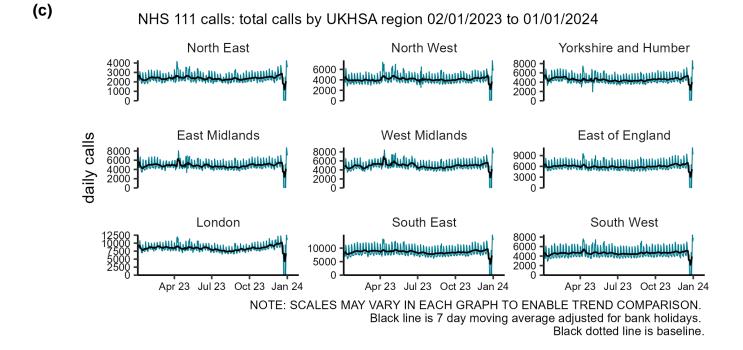
### NHS 111 calls

Figure 1: Daily number of NHS 111 calls (with 7-day moving average adjusted for bank holidays) recorded in this syndromic surveillance system in England (a) nationally, (b) by age and (c) by UKHSA Region.





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

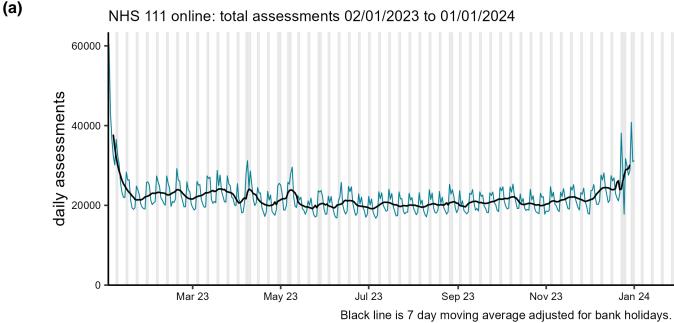


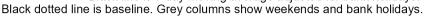
## Table 2: The number of NHS 111 calls in England recorded each day in the most recent week.

Date	Number of calls
26 December 2023	No data
27 December 2023	55,355
28 December 2023	No data
29 December 2023	54,161
30 December 2023	91,665
31 December 2023	80,988
01 January 2024	78,276

## NHS 111 online

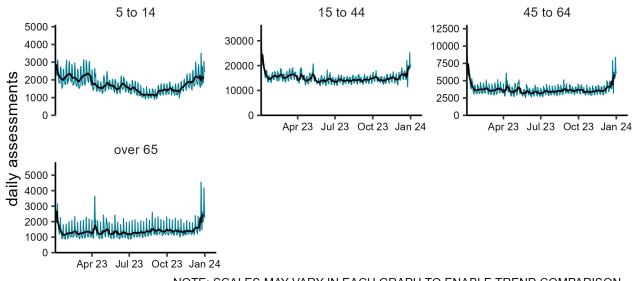
Figure 2: Daily number of completed NHS 111 online assessments (with 7-day moving average adjusted for bank holidays) recorded in this syndromic surveillance system in England (a) nationally, (b) by age and (c) by UKHSA Region.



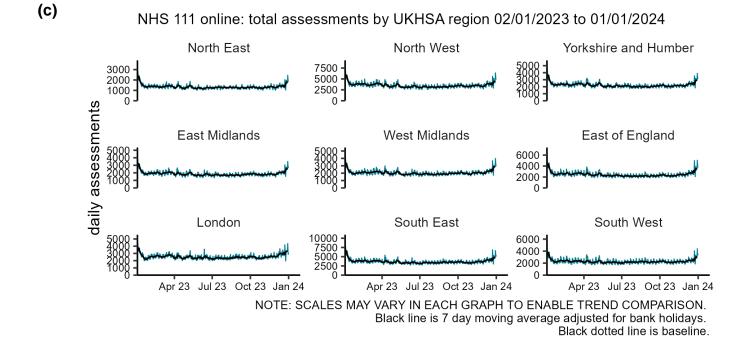




#### NHS 111 online: total assessments by age (years) 02/01/2023 to 01/01/2024



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



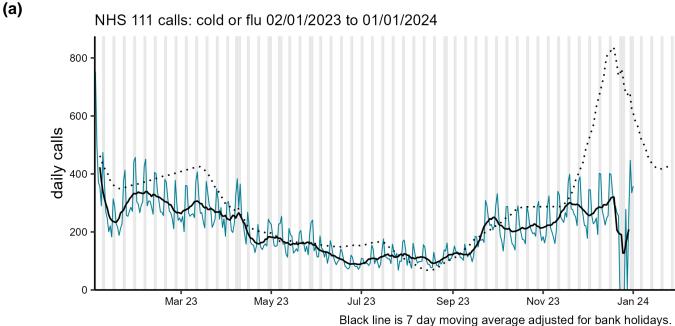
## Table 3: The number of completed NHS 111 online assessments in England recorded each day in the most recent week.

Date	Number of completed assessments
26 December 2023	31,874
27 December 2023	30,019
28 December 2023	27,656
29 December 2023	28,852
30 December 2023	41,112
31 December 2023	31,124
01 January 2024	31,349

## **Respiratory conditions**

#### Cold/flu NHS 111 calls

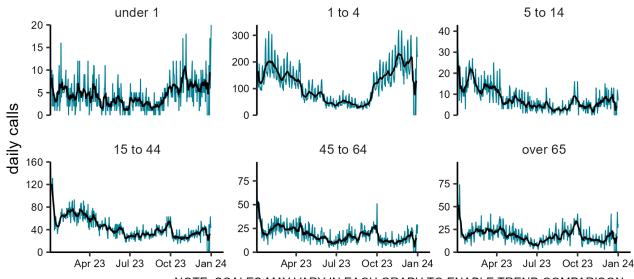
Figure 3: Daily number of NHS 111 calls (and 7-day moving average adjusted for bank holidays) for cold/flu, England (a) nationally, (b) by age and (c) by UKHSA Region.



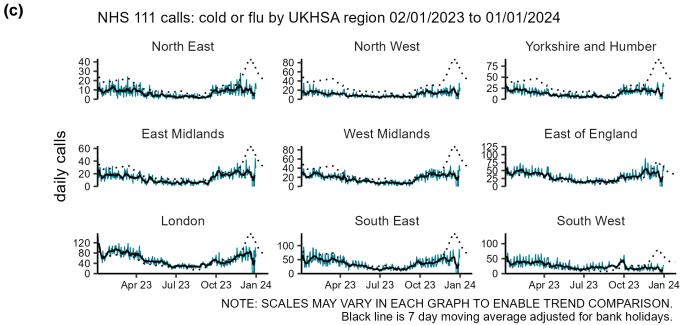
Black dotted line is baseline. Grey columns show weekends and bank holidays.

(b)

NHS 111 calls: cold or flu by age (years) 02/01/2023 to 01/01/2024



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

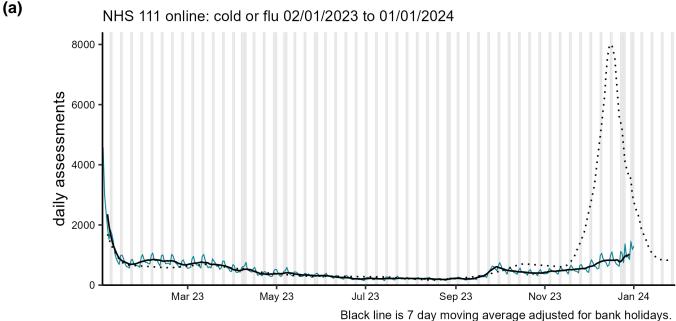


Black dotted line is baseline.

## Cold/flu NHS 111 online

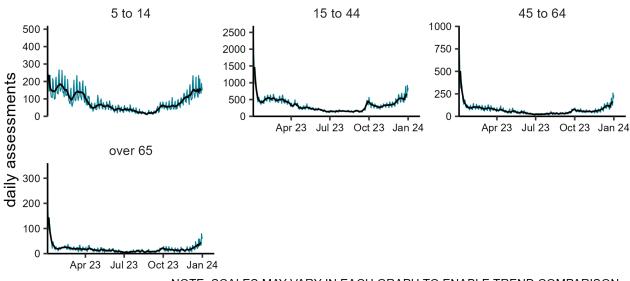
(b)

Figure 4: Daily number of completed NHS 111 online assessments (and 7-day moving average adjusted for bank holidays) for cold/flu, England (a) nationally, (b) by age and (c) by UKHSA Region.



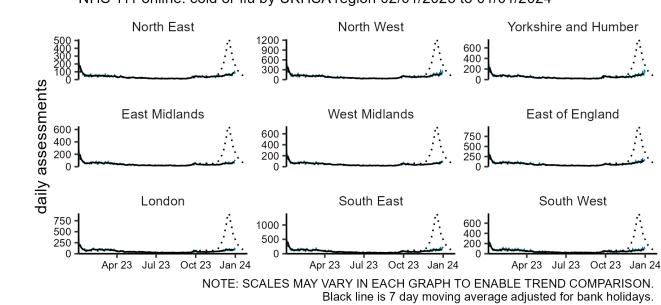


#### NHS 111 online: cold or flu by age (years) 02/01/2023 to 01/01/2024



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

(C)



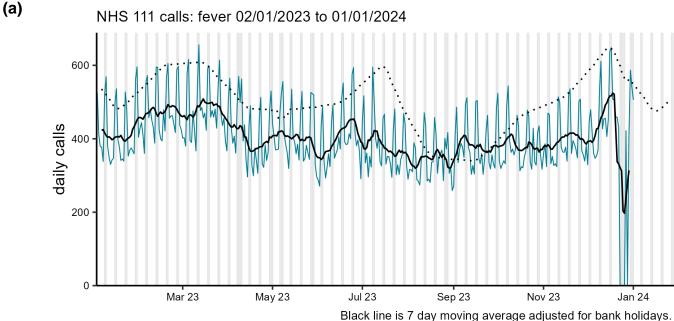
#### NHS 111 online: cold or flu by UKHSA region 02/01/2023 to 01/01/2024

Black dotted line is baseline.

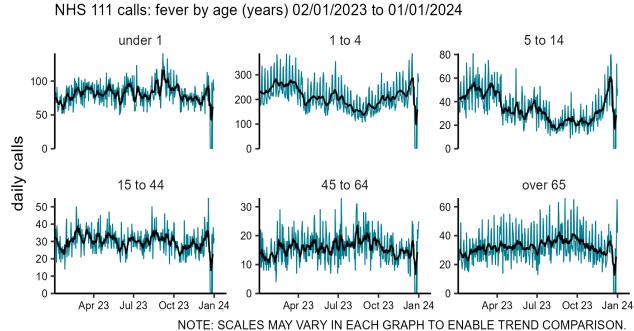
### Fever NHS 111 calls

(b)

# Figure 5: Daily number of NHS 111 calls (and 7-day moving average adjusted for bank holidays) for fever, England (a) nationally, (b) by age and (c) by UKHSA Region.

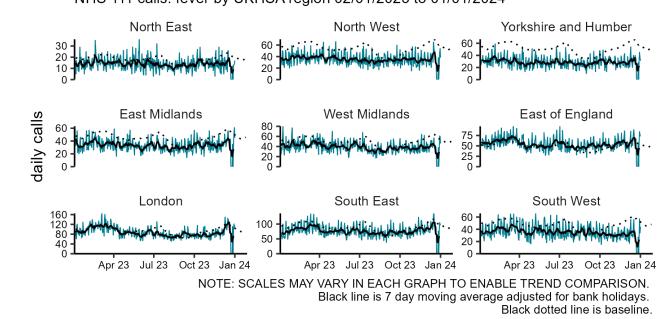


Black dotted line is baseline. Grey columns show weekends and bank holidays.



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

(C)

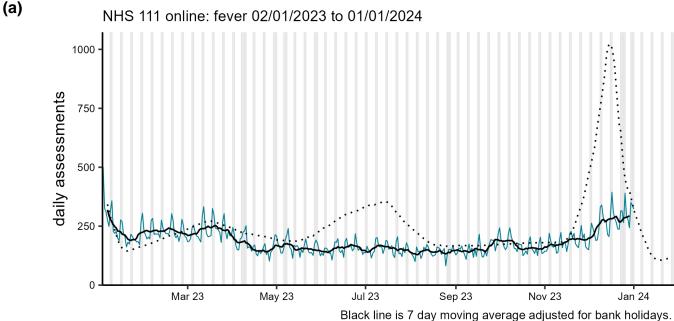


#### NHS 111 calls: fever by UKHSA region 02/01/2023 to 01/01/2024

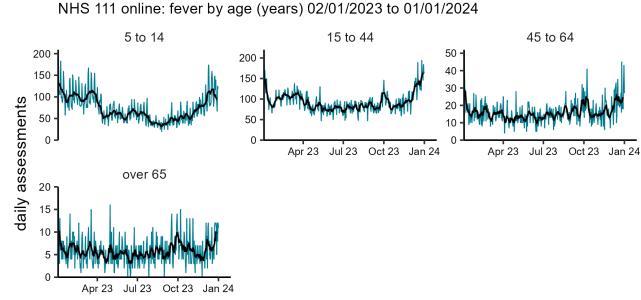
#### Fever NHS 111 online

(b)

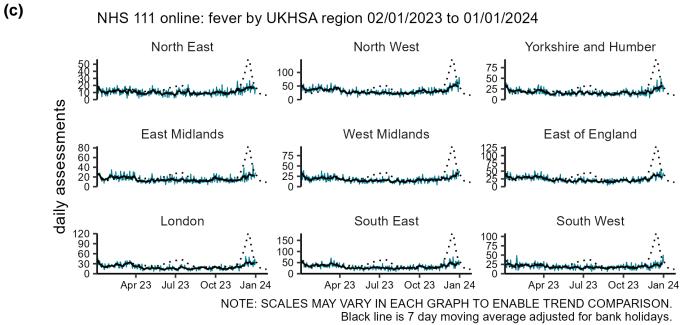
Figure 6: Daily number of completed NHS 111 online assessments (and 7-day moving average adjusted for bank holidays) for fever, England (a) nationally, (b) by age and (c) by UKHSA Region.



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.

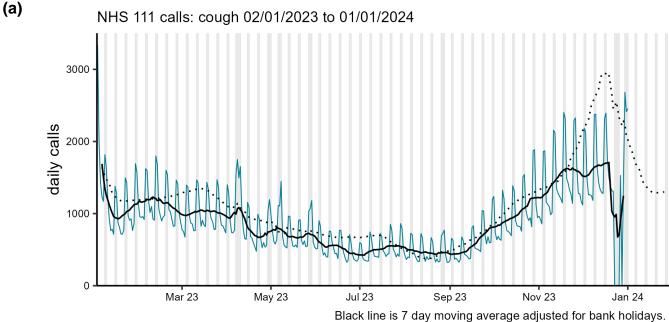


17

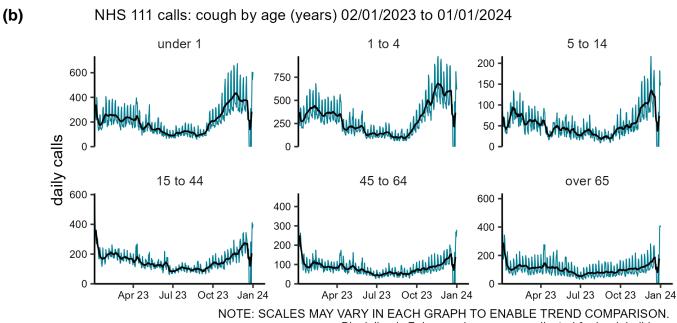
Black dotted line is baseline.

#### Cough NHS 111 calls

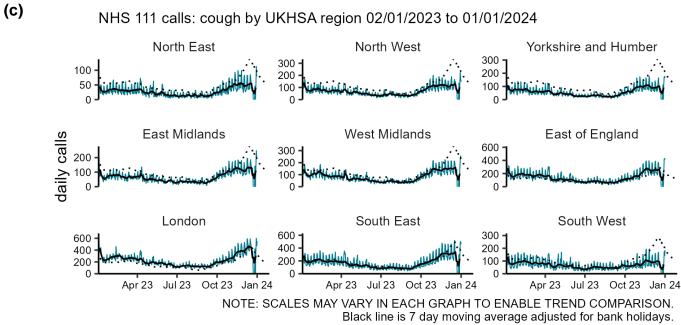
Figure 7: Daily number of NHS 111 calls (and 7-day moving average adjusted for bank holidays) for cough, England (a) nationally, (b) by age and (c) by UKHSA Region.



Black dotted line is baseline. Grey columns show weekends and bank holidays.



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

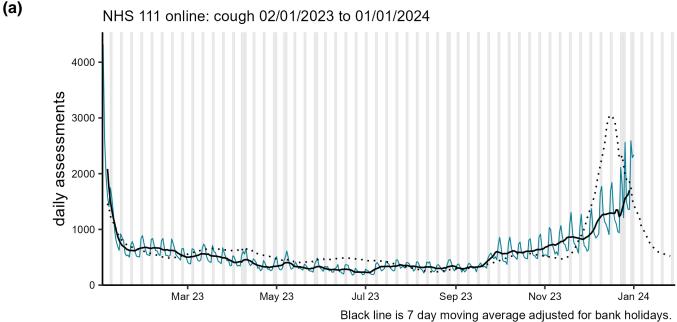


Black dotted line is baseline.

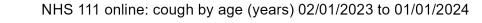
## Cough NHS 111 online

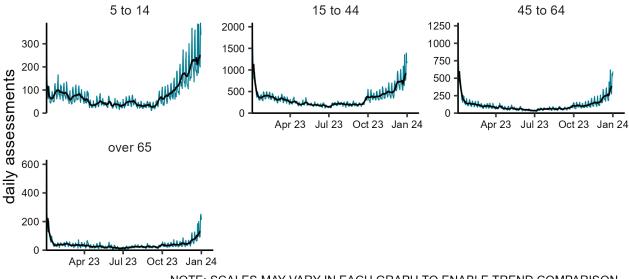
(b)

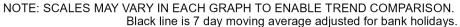
Figure 8: Daily number of completed NHS 111 online assessments (and 7-day moving average adjusted for bank holidays) for cough, England (a) nationally, (b) by age and (c) by UKHSA Region.

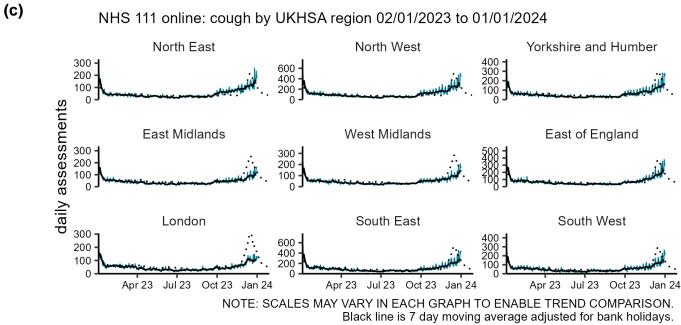


Black dotted line is baseline. Grey columns show weekends and bank holidays.









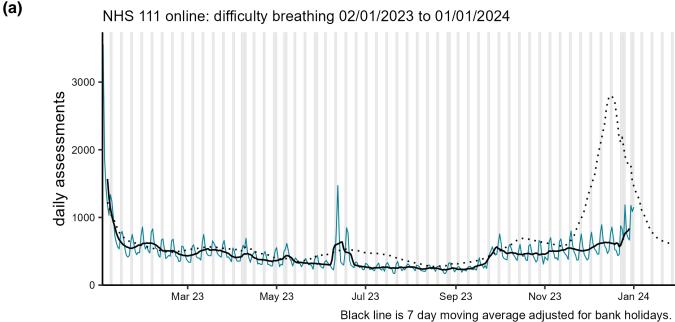
NHS 111 online: cough by UKHSA region 02/01/2023 to 01/01/2024

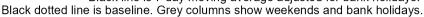
Black dotted line is baseline.

21

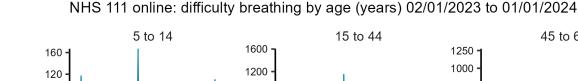
## **Difficulty breathing NHS 111 online**

#### Figure 9: Daily number of completed NHS 111 online assessments (and 7-day moving average adjusted for bank holidays) for difficulty breathing, England (a) nationally, (b) by age and (c) by UKHSA Region.

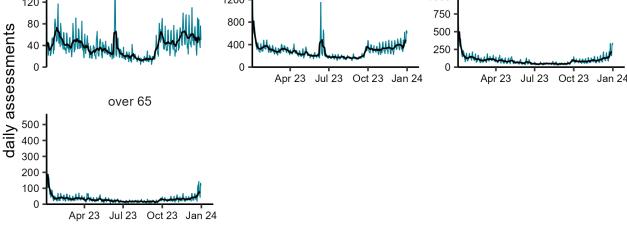


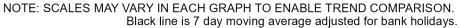


45 to 64



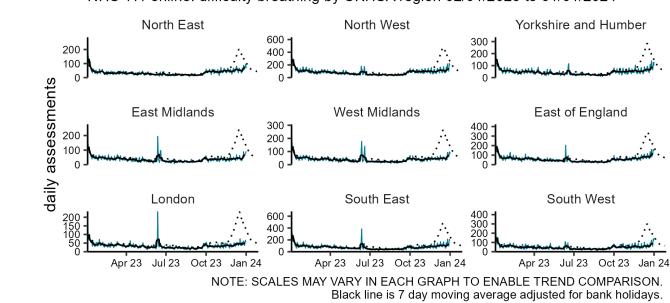
(b)





22

(C)

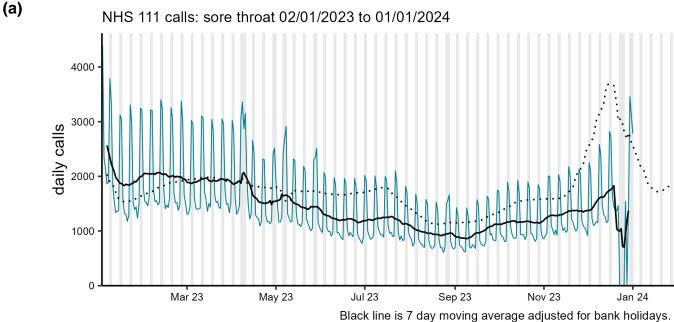


NHS 111 online: difficulty breathing by UKHSA region 02/01/2023 to 01/01/2024

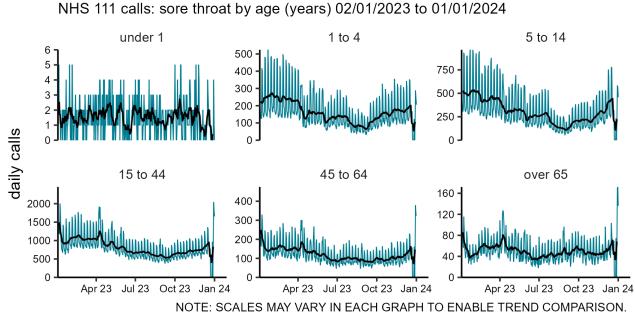
Black dotted line is baseline.

#### Sore throat NHS 111 calls

Figure 10: Daily number of NHS 111 calls (and 7-day moving average adjusted for bank holidays) for sore throat, England (a) nationally, (b) by age and (c) by UKHSA Region.

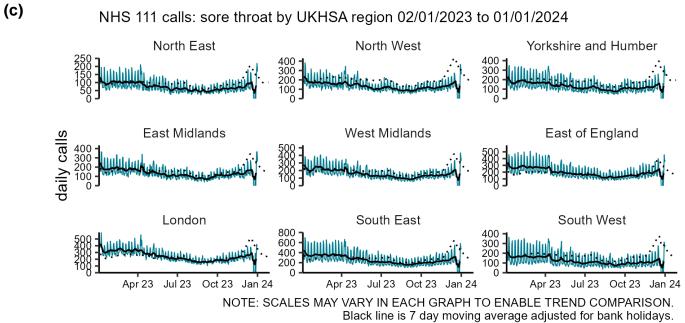


Black dotted line is baseline. Grey columns show weekends and bank holidays.



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

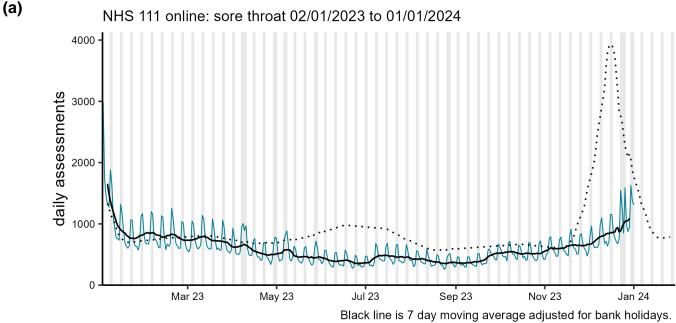
(b)

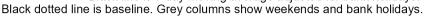


Black dotted line is baseline.

#### Sore throat NHS 111 online

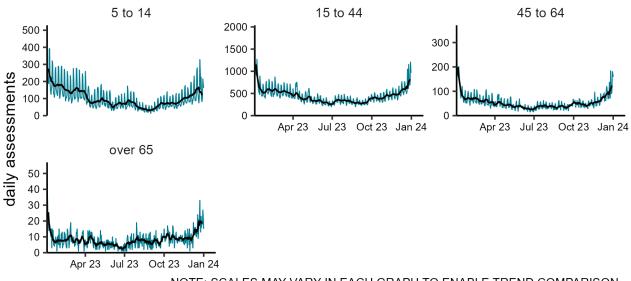
# Figure 11: Daily number of completed NHS 111 online assessments (and 7-day moving average adjusted for bank holidays) for sore throat, England (a) nationally, (b) by age and (c) by UKHSA Region.

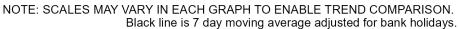


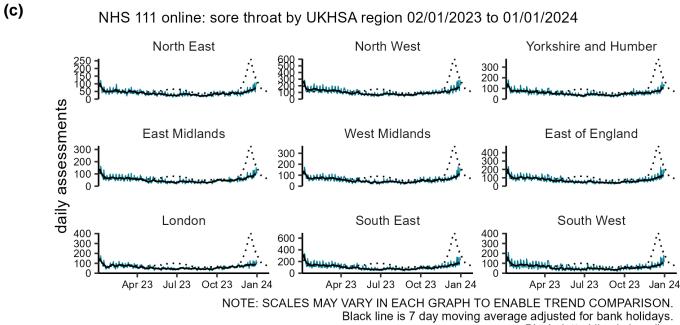




#### NHS 111 online: sore throat by age (years) 02/01/2023 to 01/01/2024





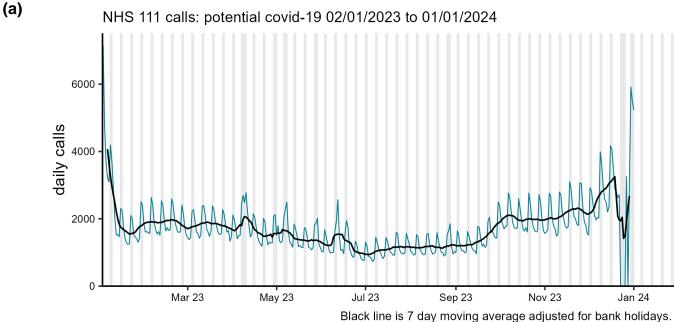


Black dotted line is baseline.

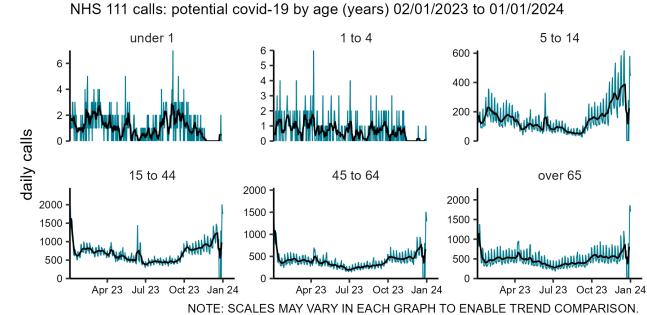
(b)

## Potential COVID-19 NHS 111 calls

# Figure 12: Daily number of NHS 111 calls (and 7-day moving average adjusted for bank holidays) for potential COVID-19, England (a) nationally, (b) by age and (c) by UKHSA Region.

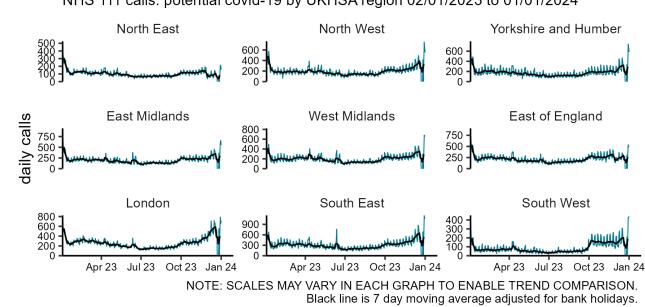


Black dotted line is baseline. Grey columns show weekends and bank holidays.



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

(C)



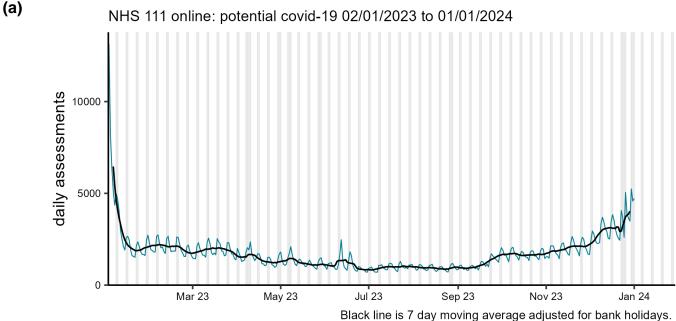
Black dotted line is baseline.

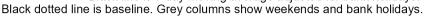
NHS 111 calls: potential covid-19 by UKHSA region 02/01/2023 to 01/01/2024

(b)

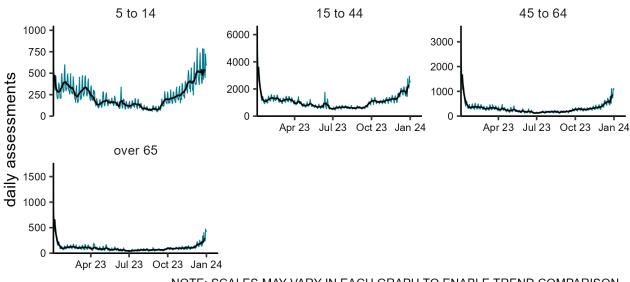
#### Potential COVID-19 NHS 111 online

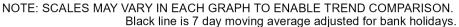
# Figure 13: Daily number of completed NHS 111 online assessments (and 7-day moving average adjusted for bank holidays) for potential COVID-19, England (a) nationally, (b) by age and (c) by UKHSA Region.

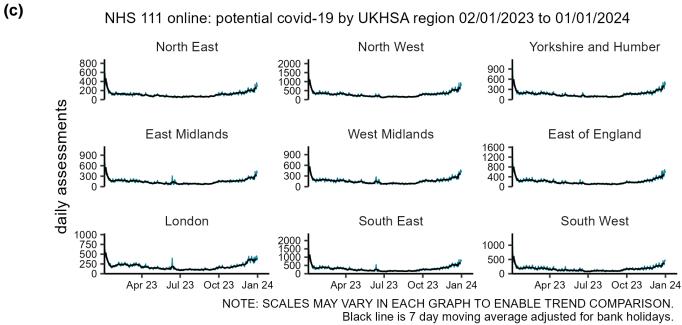




#### NHS 111 online: potential covid-19 by age (years) 02/01/2023 to 01/01/2024





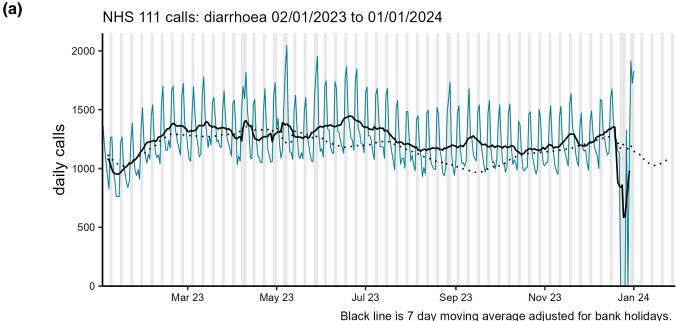


Black dotted line is baseline.

## **Gastrointestinal conditions**

#### Diarrhoea NHS 111 calls

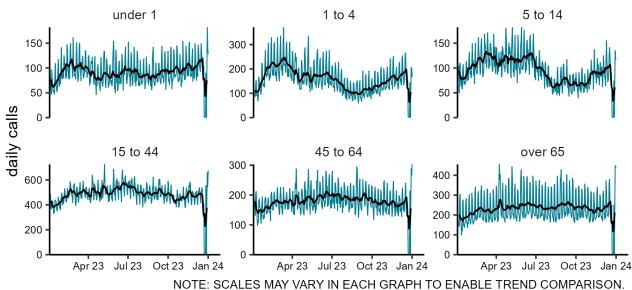
Figure 14: Daily number of NHS 111 calls (and 7-day moving average adjusted for bank holidays) for diarrhoea, England (a) nationally, (b) by age and (c) by UKHSA Region.



Black dotted line is baseline. Grey columns show weekends and bank holidays.

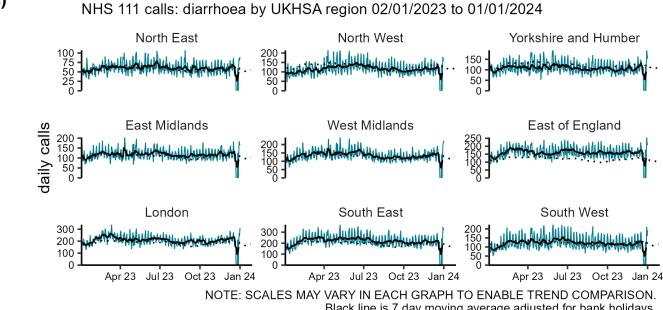
(b)

NHS 111 calls: diarrhoea by age (years) 02/01/2023 to 01/01/2024



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

(C)

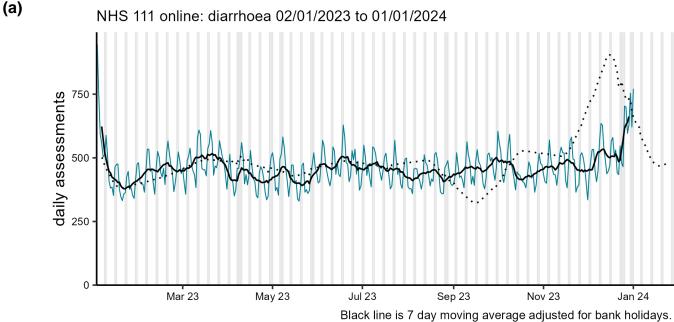


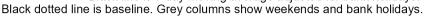
Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline.

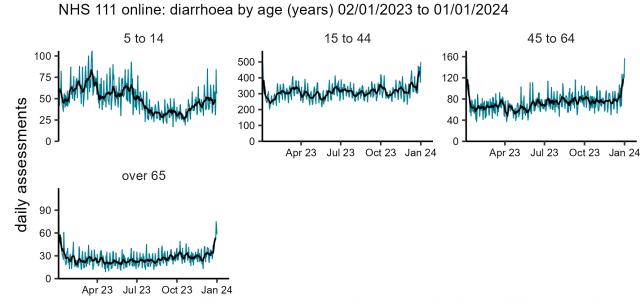
### Diarrhoea NHS 111 online

(b)

# Figure 15: Daily number of completed NHS 111 online assessments (and 7-day moving average adjusted for bank holidays) for diarrhoea, England (a) nationally, (b) by age and (c) by UKHSA Region.

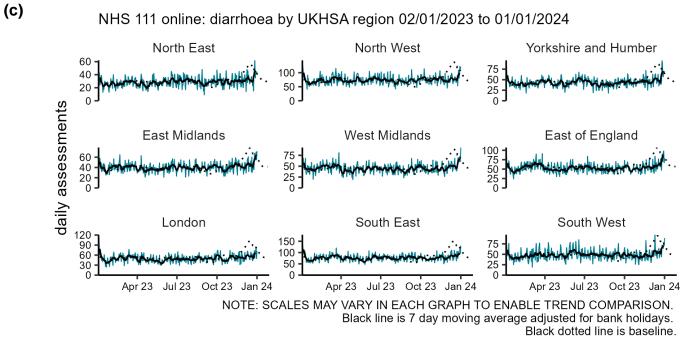






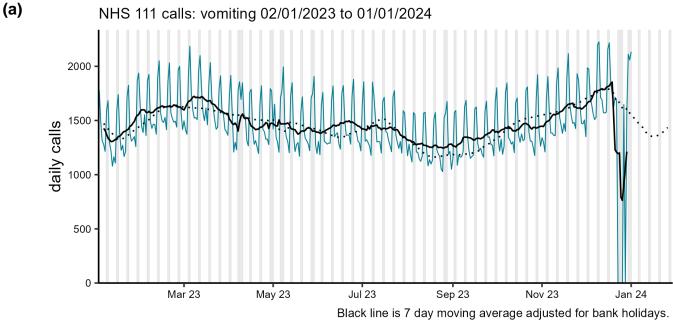
NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON. Black line is 7 day moving average adjusted for bank holidays.

34

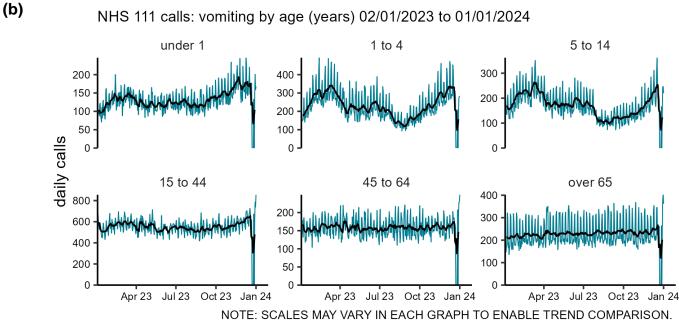


#### Vomiting NHS 111 calls

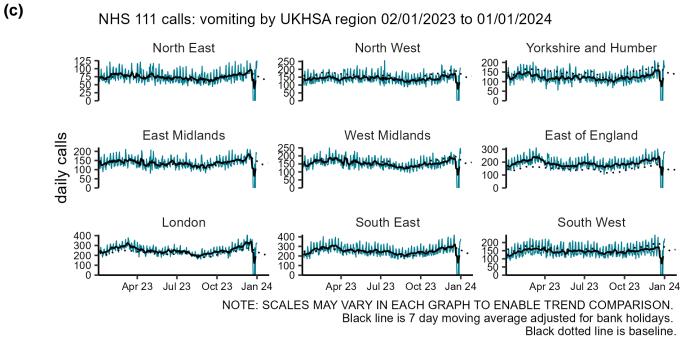
Figure 16: Daily number of NHS 111 calls (and 7-day moving average adjusted for bank holidays) for vomiting, England (a) nationally, (b) by age and (c) by UKHSA Region.



Black dotted line is baseline. Grey columns show weekends and bank holidays.



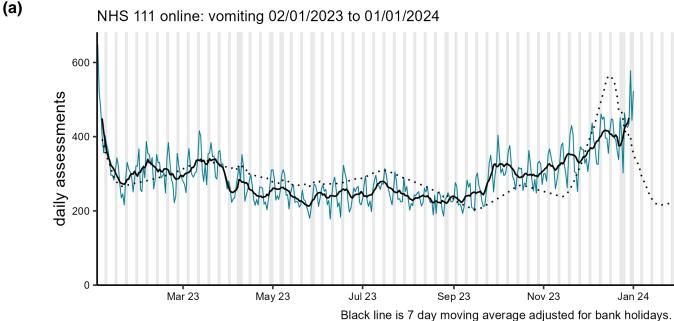
Black line is 7 day moving average adjusted for bank holidays.



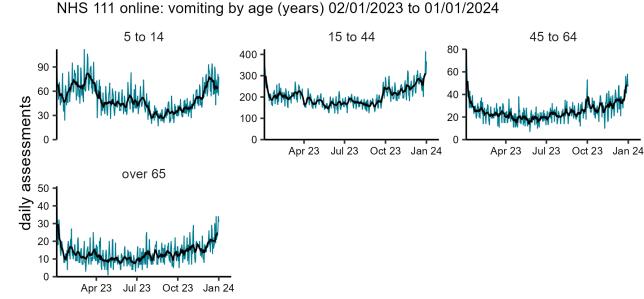
### Vomiting NHS 111 online

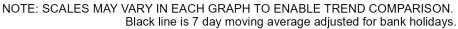
(b)

Figure 17: Daily number of completed NHS 111 online assessments (and 7-day moving average adjusted for bank holidays) for vomiting, England (a) nationally, (b) by age and (c) by UKHSA Region.

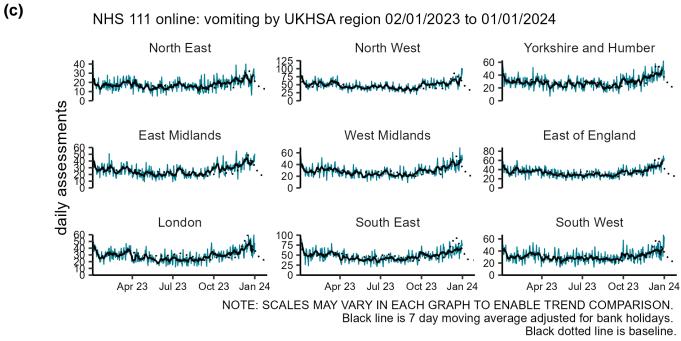


Black dotted line is baseline. Grey columns show weekends and bank holidays.





38



## **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 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

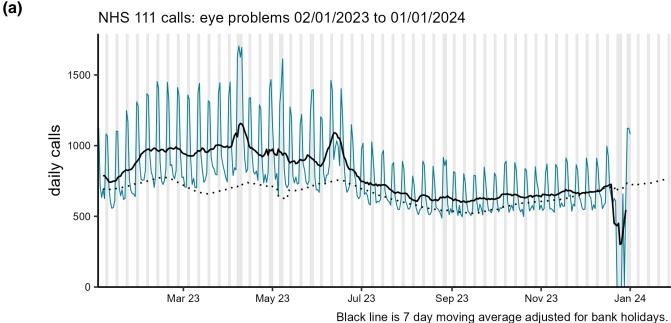
Highest weather alert level during the current reporting week:

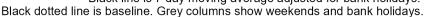
No alerts issued

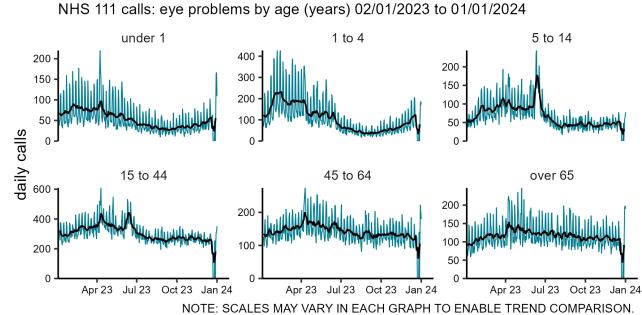
### Eye problems NHS 111 calls

(b)

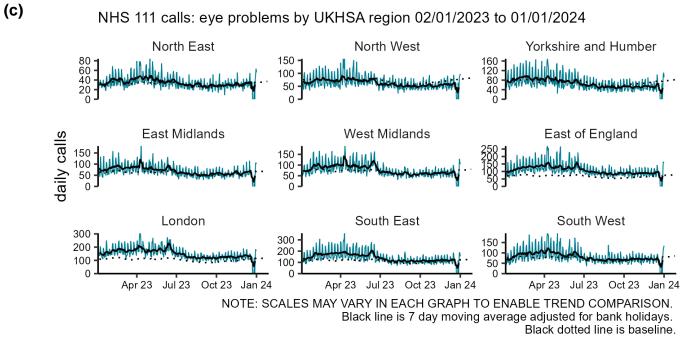
Figure 18: Daily number of NHS 111 calls (and 7-day moving average adjusted for bank holidays) for eye problems, England (a) nationally, (b) by age and (c) by UKHSA Region.sd





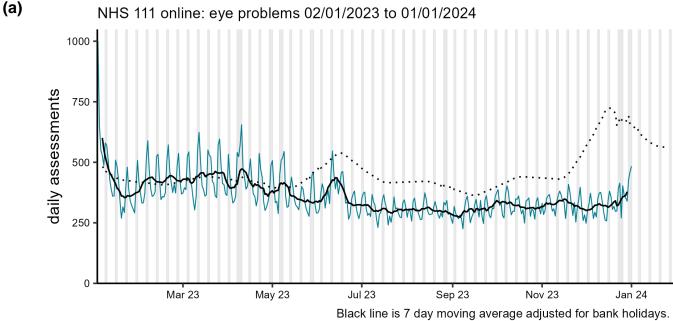


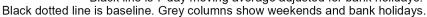
Black line is 7 day moving average adjusted for bank holidays.



### Eye problems NHS 111 online

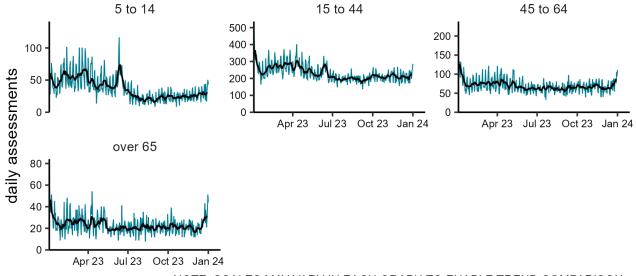
Figure 19: Daily number of completed NHS 111 online assessments (and 7-day moving average adjusted for bank holidays) for eye problems, England (a) nationally, (b) by age and (c) by UKHSA Region.



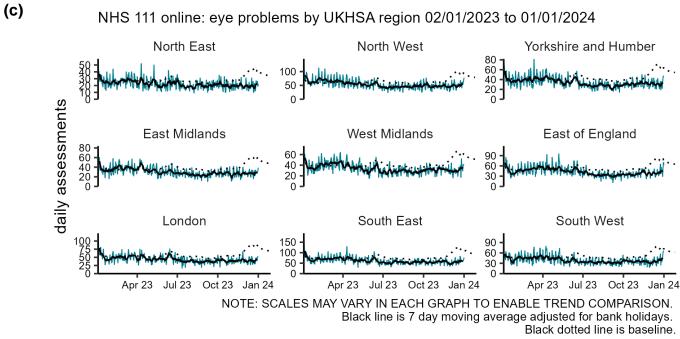




#### NHS 111 online: eye problems by age (years) 02/01/2023 to 01/01/2024



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



## **Notes and caveats**

The following additional caveats apply to the UKHSA remote health advice syndromic surveillance system:

- all NHS 111 syndromic trends should be interpreted with caution due to changes in national advice and guidance regarding access to health care services as well as updates and changes to service provision during the COVID-19 pandemic
- data presented should be used to monitor trends rather than numbers of 'cases':
  - commencing week 20 of 2023, NHS 111 calls are monitored using the NHS 111 Intelligent Data Tool, a repository of data on NHS 111 calls used by NHS England, UKHSA and service commissioners. The volume of calls for each syndromic indicator may be different to the call volumes presented in previous syndromic reports. This is because the Intelligent Data Tool records the Symptom Group allocated to each call following triage rather than the NHS Pathway. However, trends remain similar to those previously reported
  - NHS 111 calls data may not include the most urgent calls which are rapidly redirected to ambulance services
  - any user that launches an online assessment may access the service multiple times and can change their answers and follow multiple journeys through the online system: only complete assessments are included here
  - an individual may use both the NHS 111 online and NHS 111 telephony services; counts from the two services cannot be considered as distinct counts of individuals
  - NHS 111 online assessment data does not include children under 5 years of age
- baselines:
  - o were last remodelled May 2023
  - o are constructed from historical data since January 2018
  - represent seasonally expected levels of activity
  - take account of any known substantial changes in data collection, population coverage or reporting practices and consequently may vary slightly from week to week (and will rescale) if there are substantial changes in call/online activity
    - the COVID-19 pandemic period is excluded
- as NHS 111 systems evolve to meet service needs, we continue to work with NHS 111 and NHS England to ensure that:
  - changes impacting on syndromic indicators reported in this bulletin are identified and accounted for as far as possible
  - changes are described in: Data quality issues of note this week
- further information about NHS 111 can be found here

## COVID-19 syndromic surveillance

The 'potential COVID-19' syndromic indicator reported here for all NHS 111 data is based on the outcome of each call or online assessment (known as the disposition), not the symptom (Pathway) selected:

- potential COVID-19 is the only syndromic indicator which is based on disposition
- potential COVID-19 calls and online assessments may therefore also appear in other syndromic indicators based on the Pathway of each call or online assessment
- these data are based on potential COVID-19 symptoms reported and are not based on outcomes of tests for coronavirus

## Acknowledgements

We are grateful to NHS 111 and to NHS England for their assistance and support in providing the anonymised data that underpin this 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 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

© Crown copyright 2024 Version: RHA-2

Prepared by: Real-time Syndromic Surveillance Team For queries relating to this document, please contact: syndromic.surveillan@ukhsa.gov.uk

Published: January 2024



You may re-use this information (excluding logos) free of charge in any format or medium, under the terms of the Open Government Licence v3.0. To view this licence, visit <u>OGL</u>. Where we have identified any third party copyright information you will need to obtain permission from the copyright holders concerned.



UKHSA supports the UN Sustainable Development Goals

