

# Remote Health Advice Syndromic Surveillance System Bulletin (England) 2023 Week 35

## Key messages

Data reported to: 03 September 2023

NHS 111 calls and online assessments for 'heat exposure or sunburn' decreased throughout week 35 however there was an increase in activity over the weekend of 2/3 September. Calls and assessments for insect bites also increased over the weekend and are currently above seasonally expected levels. NHS 111 cold/flu calls increased during week 35 but are in line with seasonally 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.

level (compared to the expected baseline), of each indicator included in this bulletin.			
Indicator	Trend <sup>1</sup>	Level	
Total NHS 111 calls ( <b>Figure 1</b> )	No trend	No baseline	
Total NHS 111 online (Figure 2)	No trend	No baseline	
Cold/flu NHS 111 calls (Figure 3)	Increasing	Similar to baseline	
Cold/flu NHS 111 online (Figure 4)	No trend	Similar to baseline	
Fever NHS 111 calls (Figure 5)	No trend	Similar to baseline	
Fever NHS 111 online (Figure 6)	No trend	Similar to baseline	
Cough NHS 111 calls (Figure 7)	No trend	Similar to baseline	
Cough NHS 111 online (Figure 8)	No trend	Similar to baseline	
Difficulty breathing NHS 111 calls (Figure 9)	No trend	Below baseline	
Difficulty breathing NHS 111 online (Figure 10)	No trend	Similar to baseline	
Sore throat NHS 111 calls (Figure 11)	No trend	Below baseline	
Sore throat NHS 111 online (Figure 12)	No trend	Below baseline	
Potential COVID-19 NHS 111 calls (Figure 13)	No trend	No baseline	
Potential COVID-19 NHS 111 online (Figure 14)	No trend	No baseline	
Diarrhoea NHS 111 calls (Figure 15)	No trend	Above baseline	
Diarrhoea NHS 111 online (Figure 16)	No trend	Similar to baseline	
Vomiting NHS 111 calls (Figure 17)	No trend	Above baseline	
Vomiting NHS 111 online (Figure 18)	No trend	Similar to baseline	
Eye problems NHS 111 calls (Figure 19)	No trend	Above baseline	
Eye problems NHS 111 online (Figure 20)	No trend	Below baseline	
Insect bites NHS 111 calls (Figure 21)	No trend	Above baseline	
Insect bites NHS 111 online (Figure 22)	No trend	Above baseline	
Heat exposure or sunburn NHS 111 calls (Figure 23)	Decreasing	Similar to baseline	
Heat exposure or sunburn NHS 111 online (Figure 24)	Decreasing	Similar to baseline	

<sup>&</sup>lt;sup>1</sup> 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) 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.

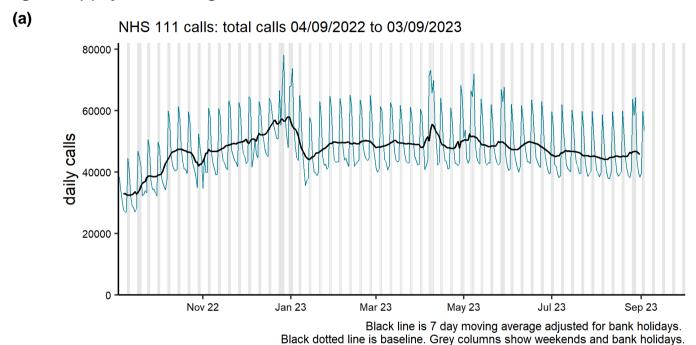
#### Data quality issues of note this week

Syndromic NHS 111 calls presented in this report for August and September 2022 were low due to technical problems on 4 August that affected an NHS 111 clinical software system provider that is used in certain parts of the country.

## **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.



NHS 111 calls: total calls by age (years) 04/09/2022 to 03/09/2023 (b) under 1 1 to 4 5 to 14 12000 3000 9000 10000 2000 6000 5000 1000 3000 daily calls 15 to 44 45 to 64 over 65 15000 20000 10000 10000 10000 5000 5000 0 Dec 22 Mar 23 Jun 23 Sep 23 Dec 22 Mar 23 Jun 23 Sep 23 Dec 22 Mar 23 Jun 23 Sep 23

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

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

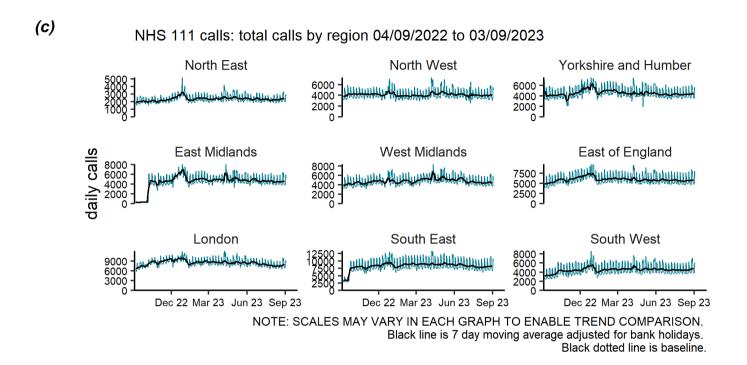


Table 2: The number of NHS 111 calls in England recorded each day in the most recent week.

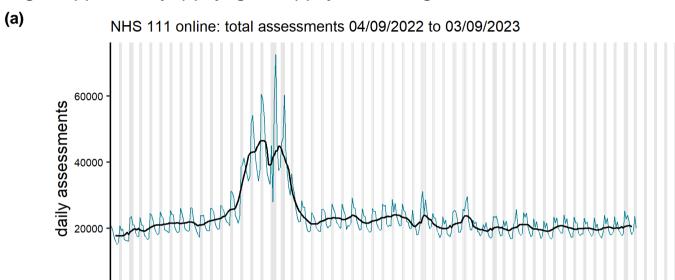
Date	Number of calls
28 August 2023	64,410
29 August 2023	43,975
30 August 2023	39,897
31 August 2023	38,375
01 September 2023	39,522
02 September 2023	59,805
03 September 2023	53,596

Nov 22

Jan 23

#### 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.



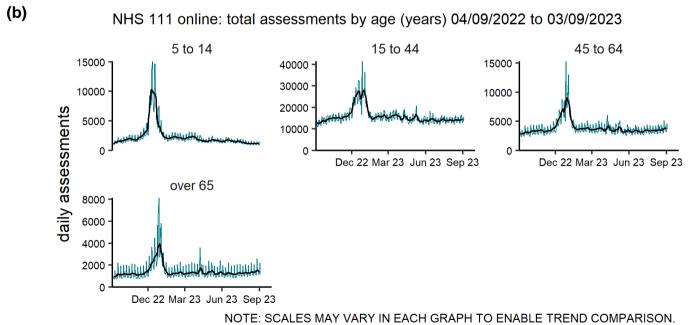
Mar 23

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

Jul 23

Sep 23

May 23



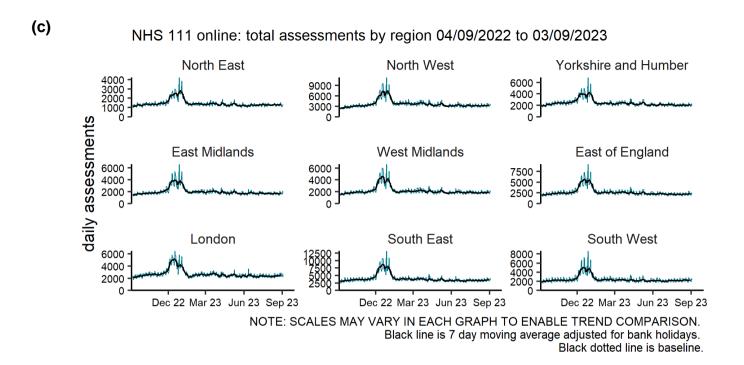


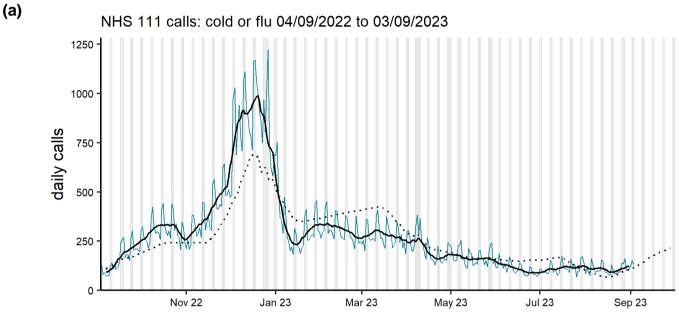
Table 3: The number of completed NHS 111 online assessments in England recorded each day in the most recent week.

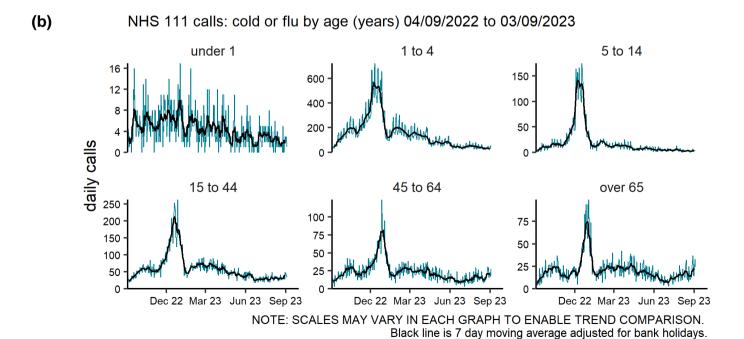
Date	Number of completed assessments
28 August 2023	24,049
29 August 2023	22,349
30 August 2023	19,368
31 August 2023	18,186
01 September 2023	19,189
02 September 2023	23,815
03 September 2023	20,059

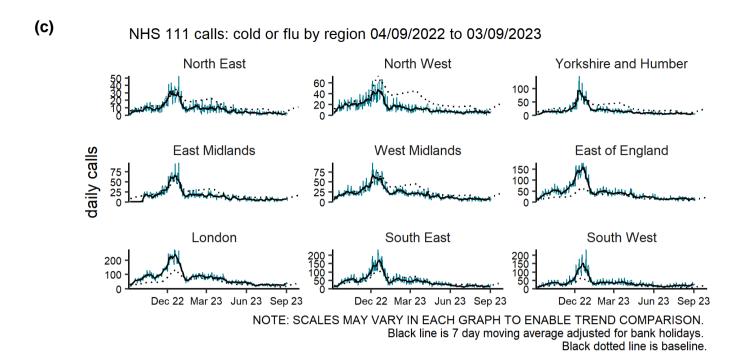
## **Respiratory conditions**

### 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.



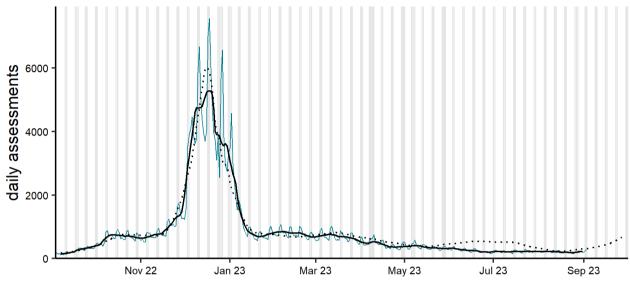




### Cold/flu NHS 111 online

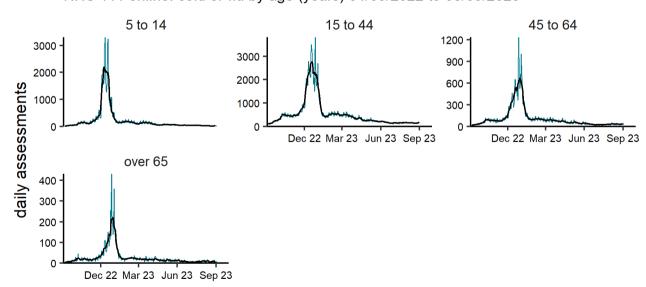
Figure 4: Daily number of completed NHS 111 online assessments (and 7-day moving average adjusted for bank holidays) for cold/flu, England (a) nationally, (b) by age and (c) by UKHSA Region.

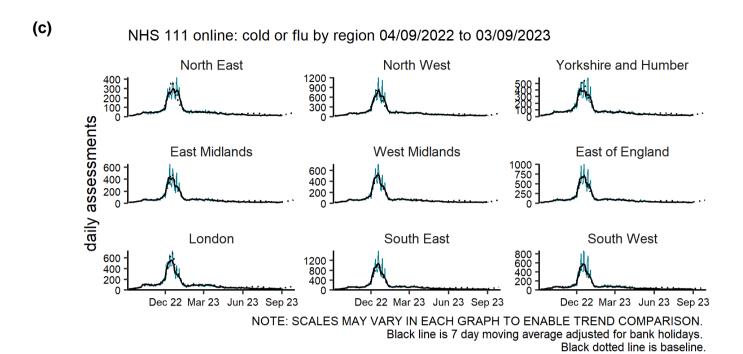
(a) NHS 111 online: cold or flu 04/09/2022 to 03/09/2023



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

(b) NHS 111 online: cold or flu by age (years) 04/09/2022 to 03/09/2023



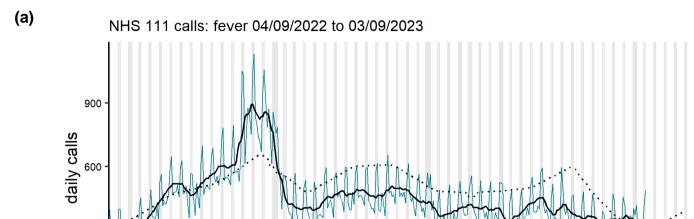


#### Fever NHS 111 calls

300

0

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.



Mar 23

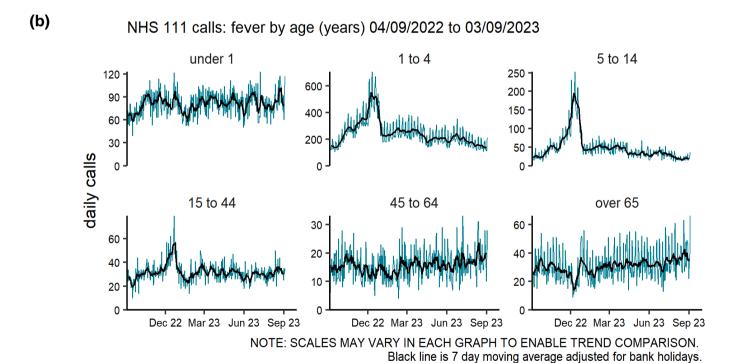
Jan 23

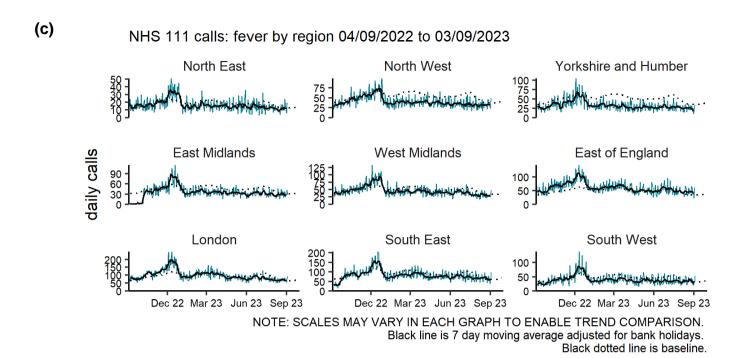
Nov 22

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

May 23

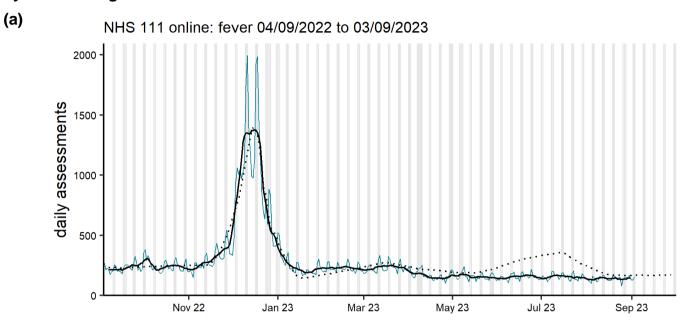
Jul 23



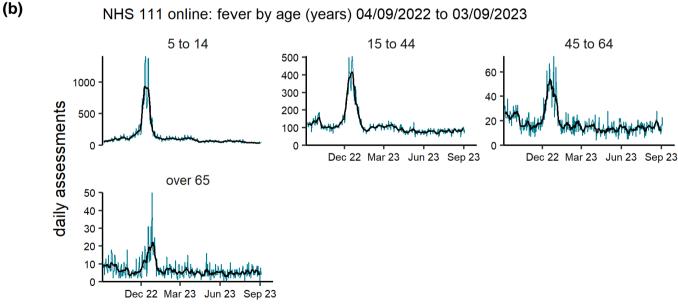


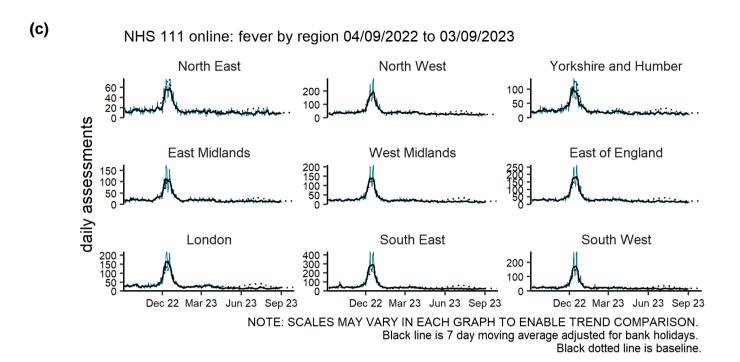
### Fever NHS 111 online

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.



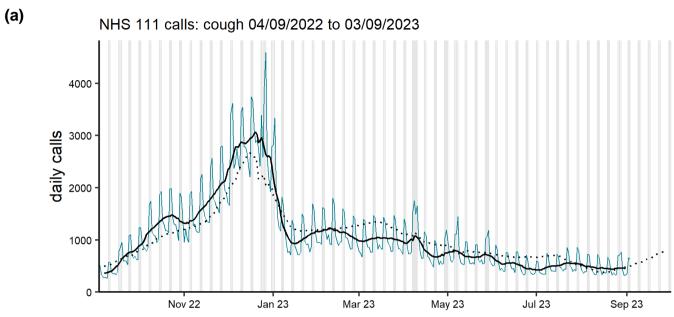
Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.

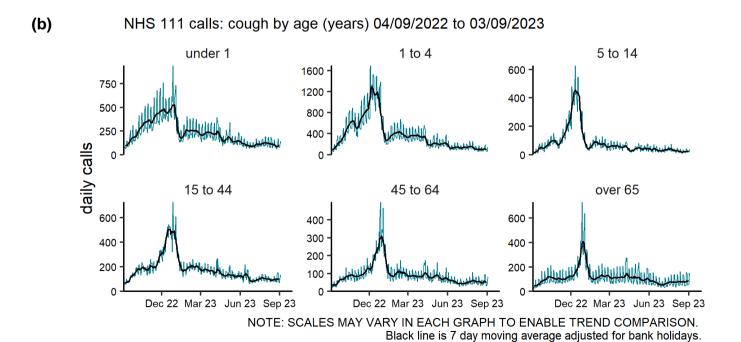


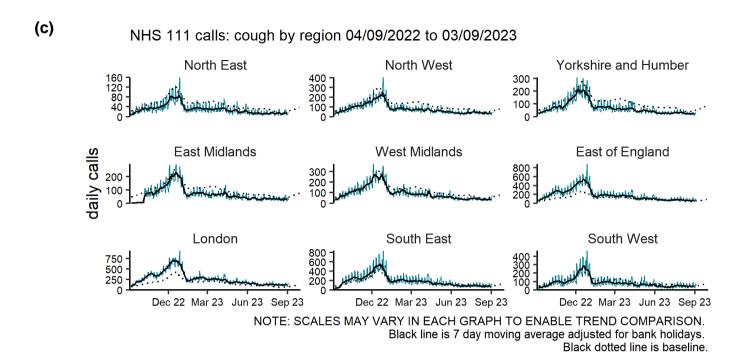


## Cough NHS 111 calls

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.

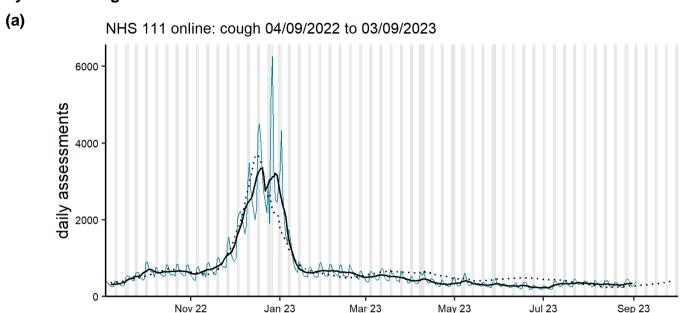


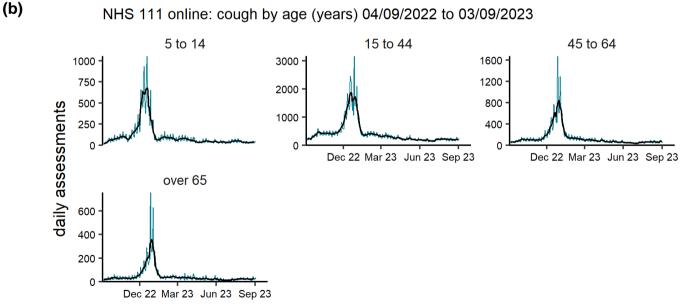


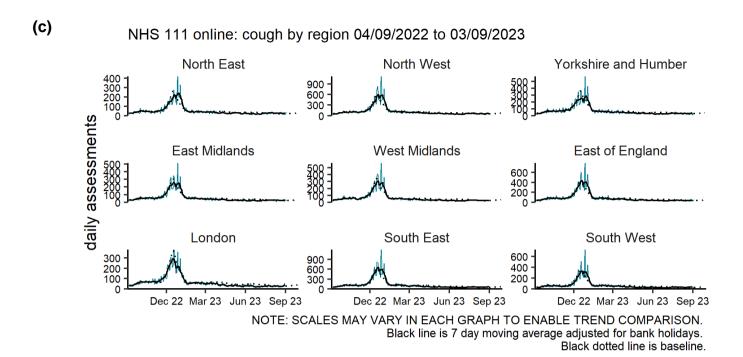


## Cough NHS 111 online

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.



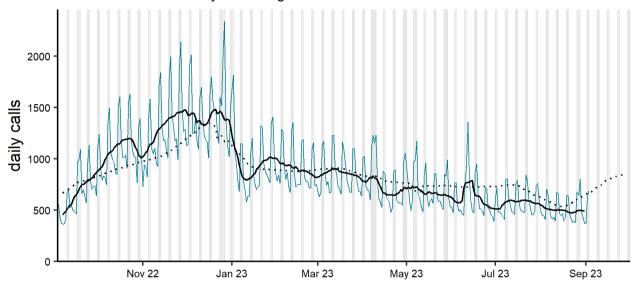




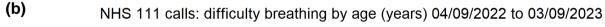
## Difficulty breathing NHS 111 calls

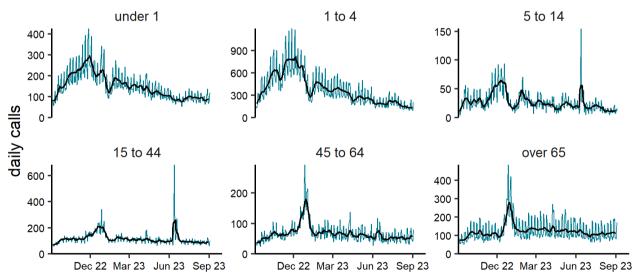
Figure 9: Daily number of NHS 111 calls (and 7-day moving average adjusted for bank holidays) for difficulty breathing, England (a) nationally, (b) by age and (c) by UKHSA Region.

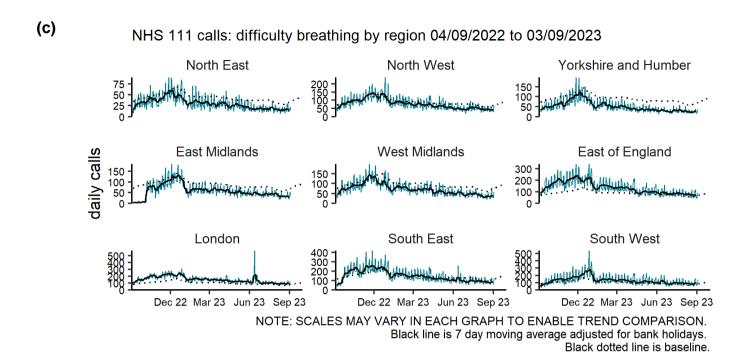




Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.



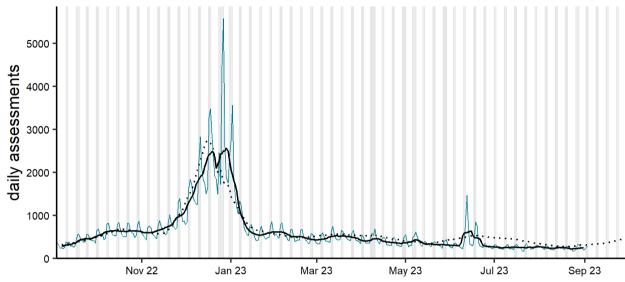




# Difficulty breathing NHS 111 online

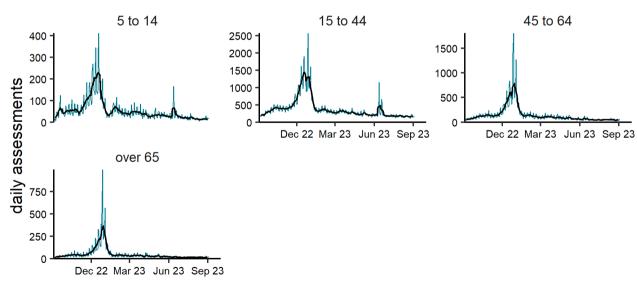
Figure 10: Daily number of completed NHS 111 online assessments (and 7-day moving average adjusted for bank holidays) for difficulty breathing, England (a) nationally, (b) by age and (c) by UKHSA Region.

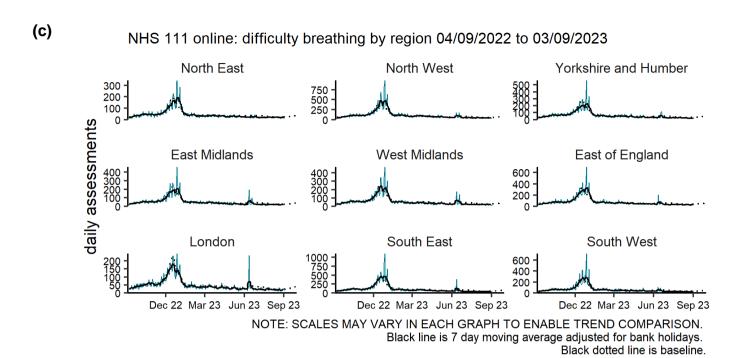
(a) NHS 111 online: difficulty breathing 04/09/2022 to 03/09/2023



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

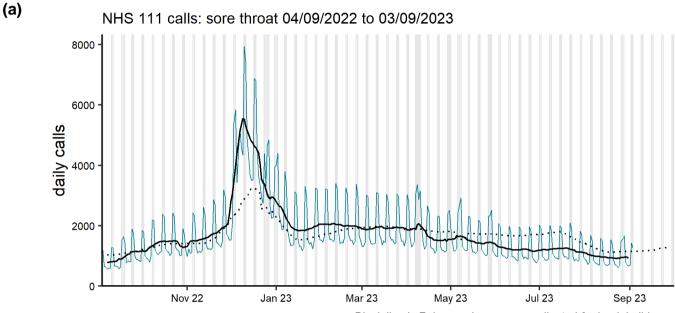
(b) NHS 111 online: difficulty breathing by age (years) 04/09/2022 to 03/09/2023

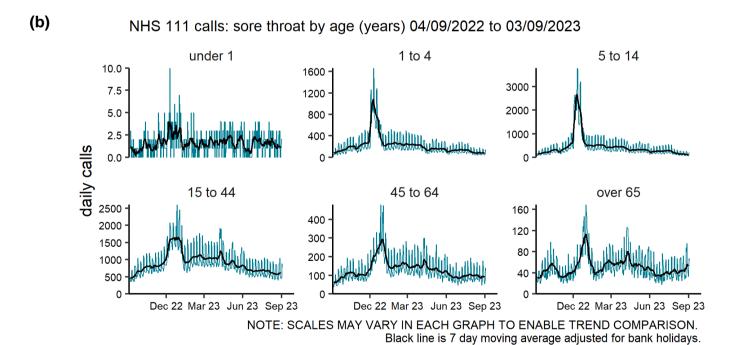


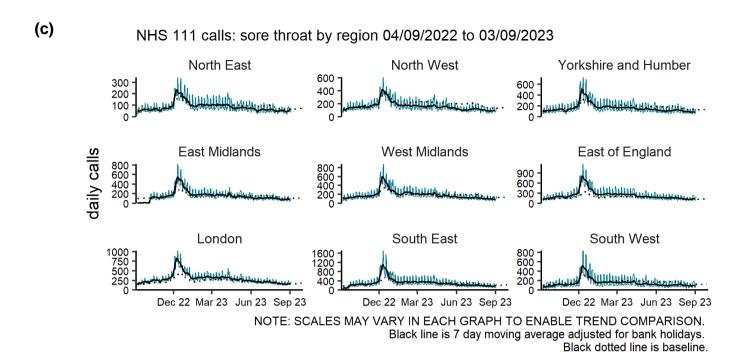


#### Sore throat NHS 111 calls

Figure 11: 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.

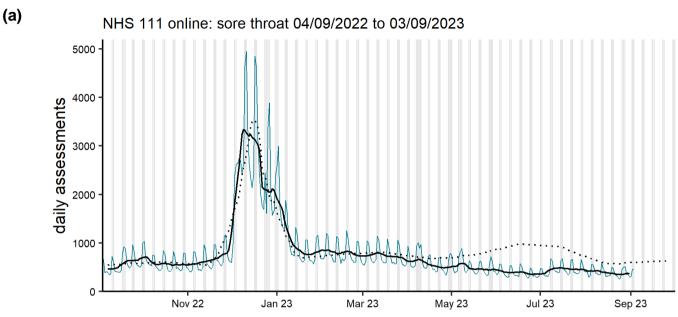




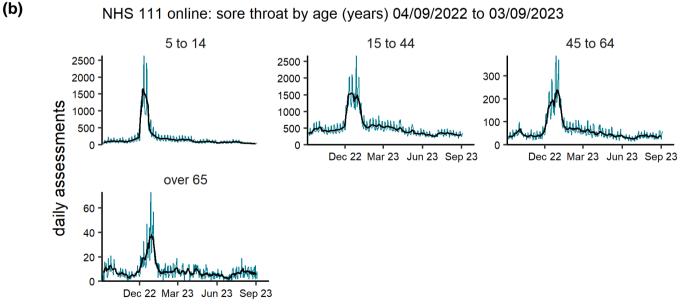


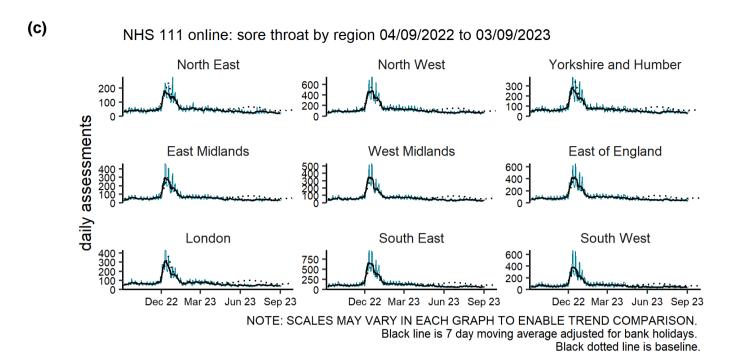
### Sore throat NHS 111 online

Figure 12: 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.



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



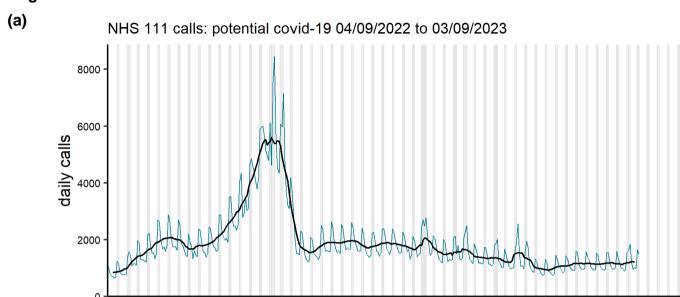


Nov 22

Jan 23

### Potential COVID-19 NHS 111 calls

Figure 13: 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.



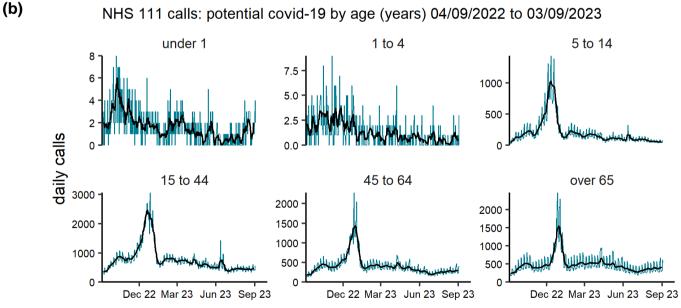
Mar 23

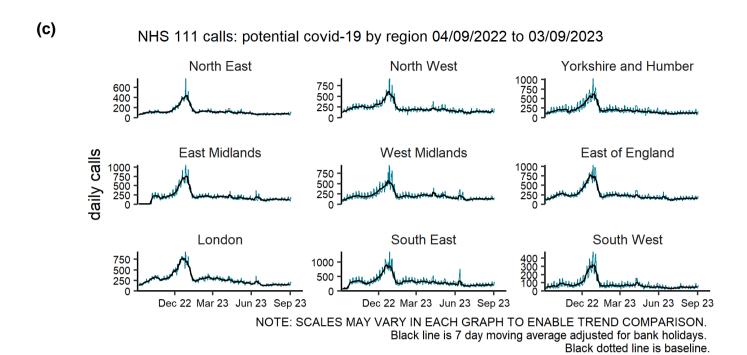
Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.

Jul 23

Sep 23

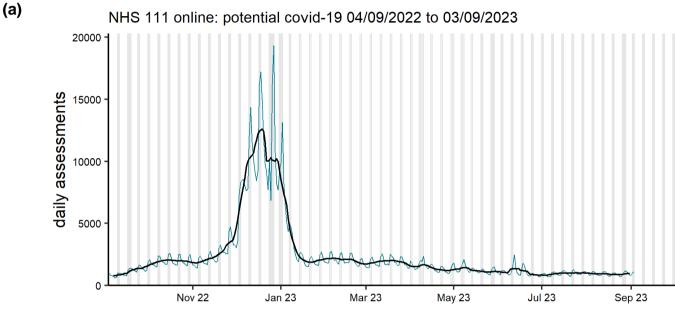
May 23

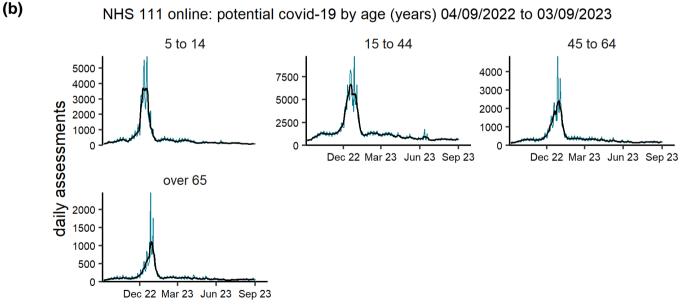


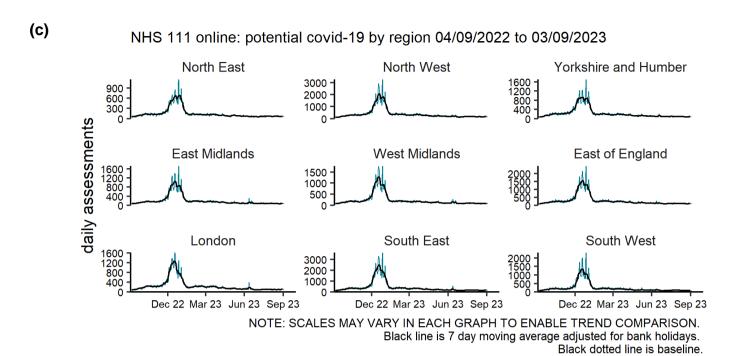


## Potential COVID-19 NHS 111 online

Figure 14: 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.



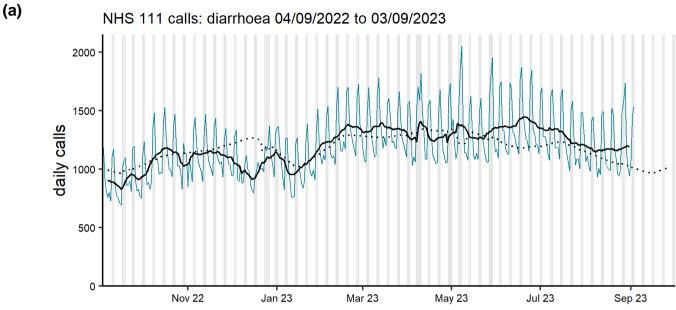


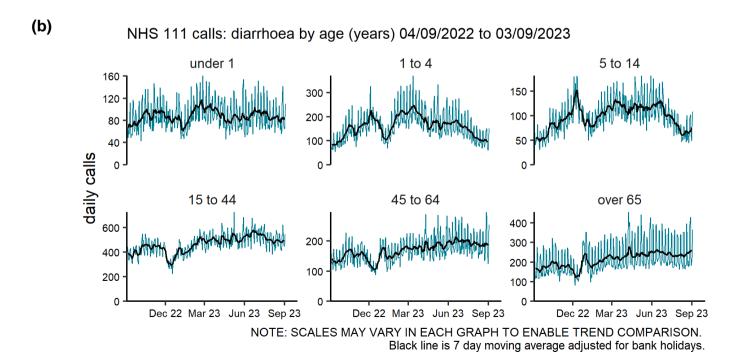


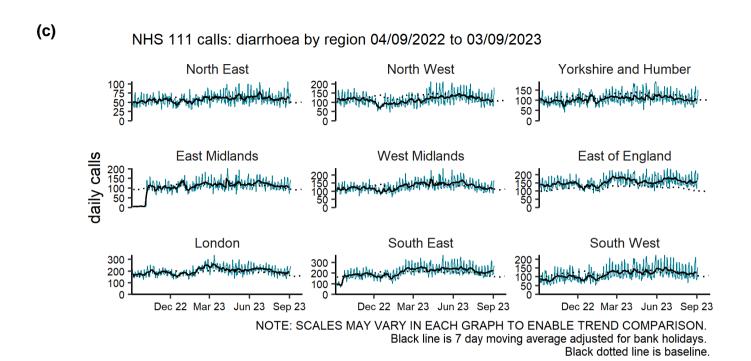
## **Gastrointestinal conditions**

### Diarrhoea NHS 111 calls

Figure 15: 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.





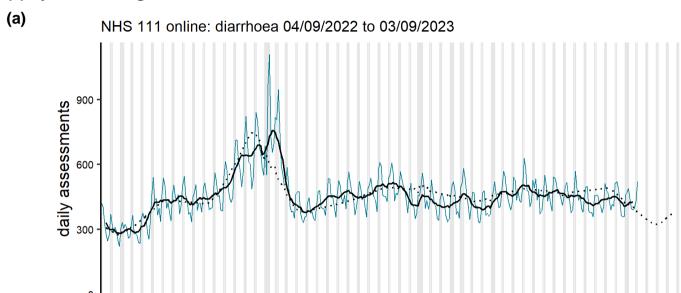


#### Diarrhoea NHS 111 online

Nov 22

Jan 23

Figure 16: 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.

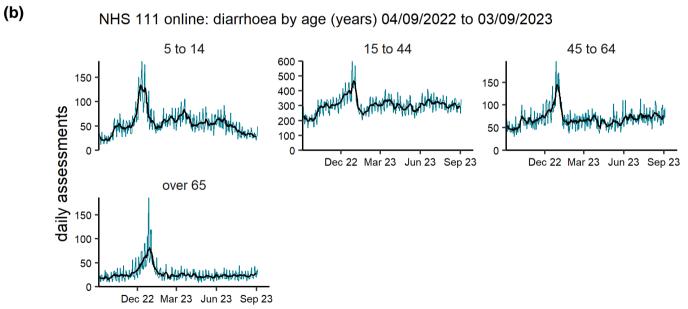


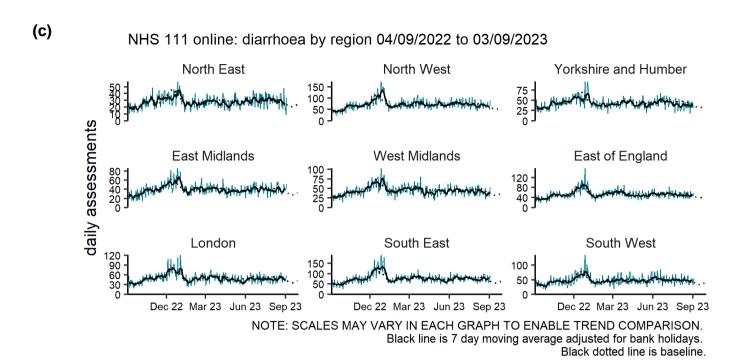
Mar 23

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

Jul 23

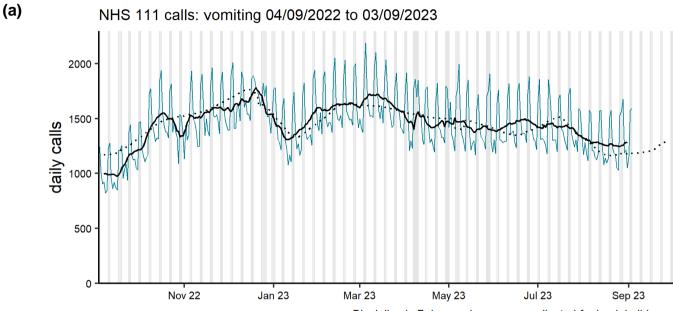
May 23

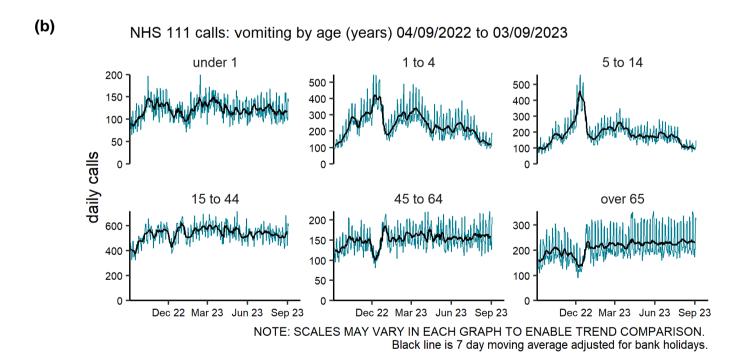


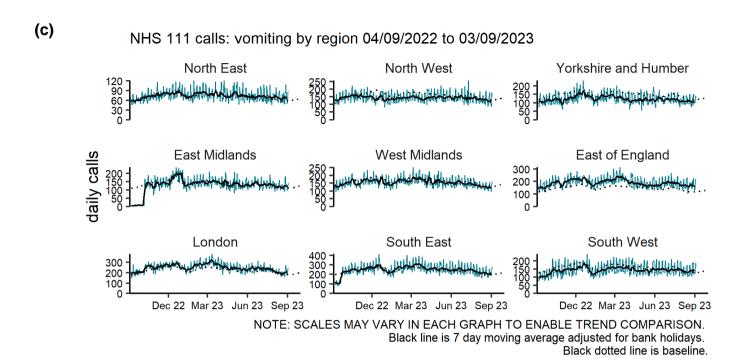


# Vomiting NHS 111 calls

Figure 17: 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.



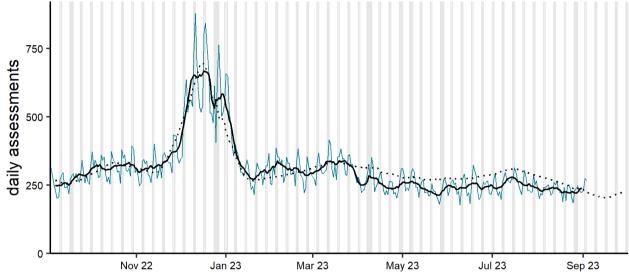




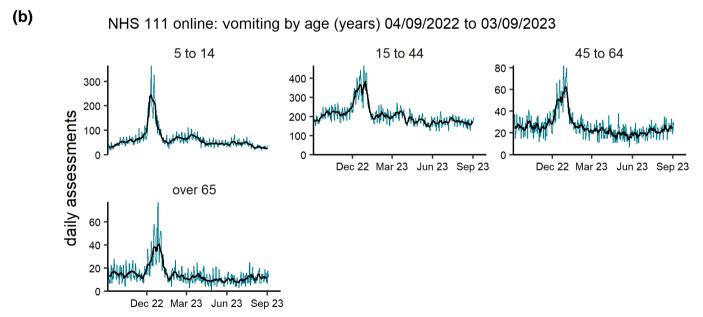
# Vomiting NHS 111 online

Figure 18: 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.

(a) NHS 111 online: vomiting 04/09/2022 to 03/09/2023

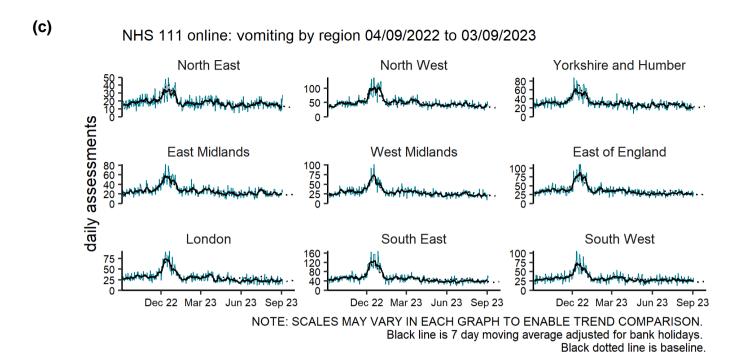


Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.



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

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



#### 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

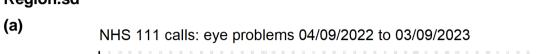
Highest weather alert level during the current reporting week:

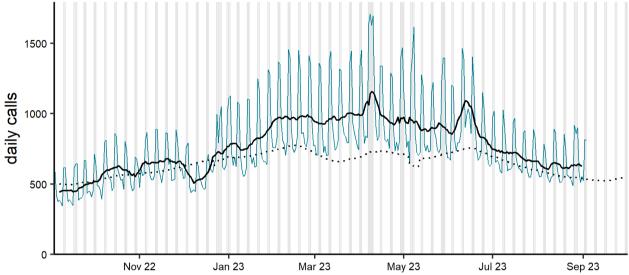
Level Green - Summer preparedness.

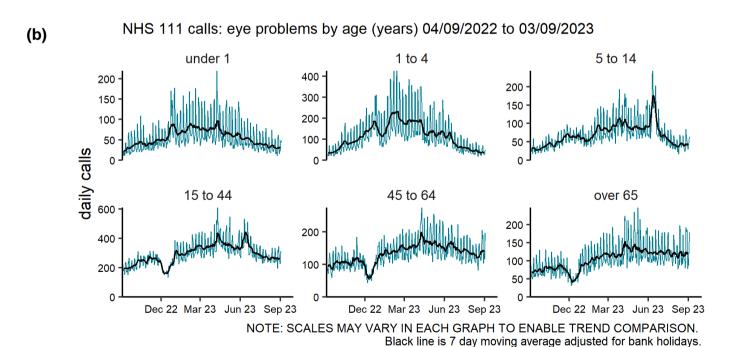
#### Heat-Health Alerts in place

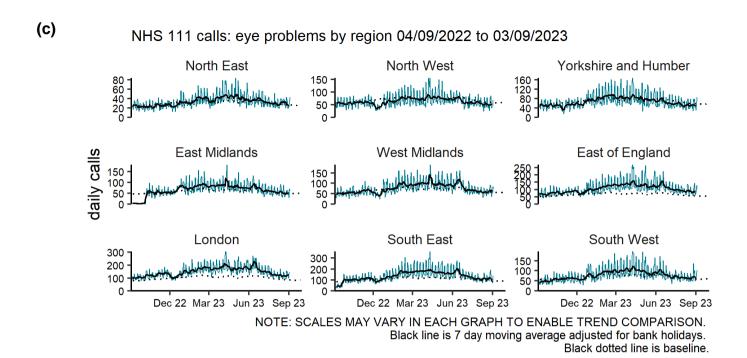
# Eye problems NHS 111 calls

Figure 19: 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



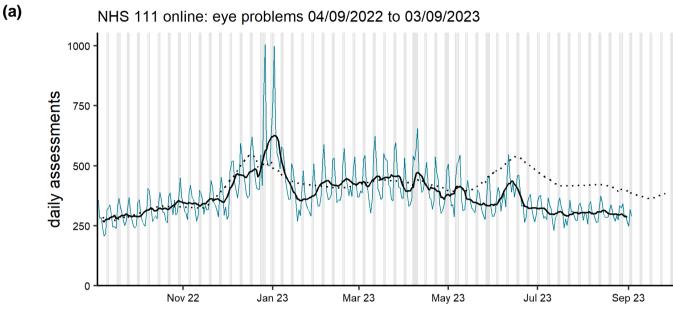




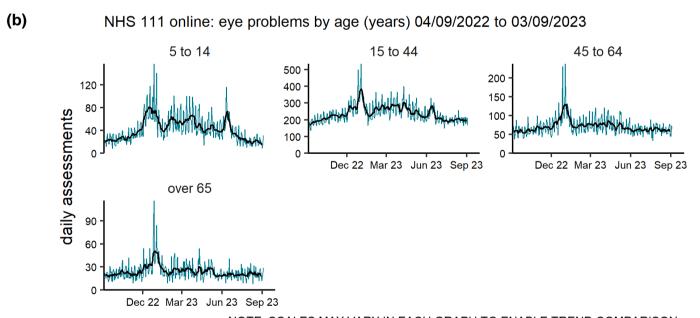


# Eye problems NHS 111 online

Figure 20: 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.

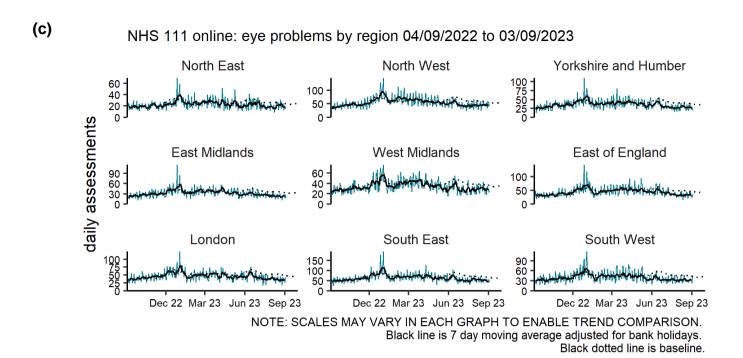


Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.



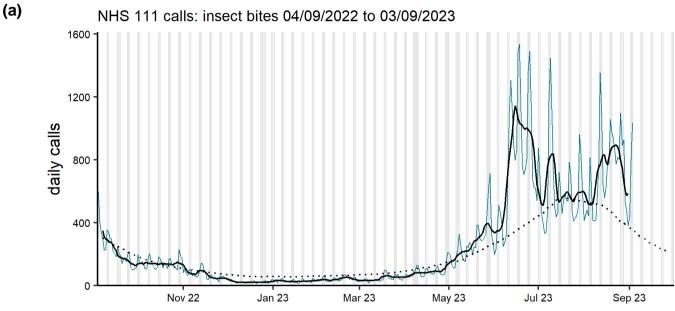
NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON.

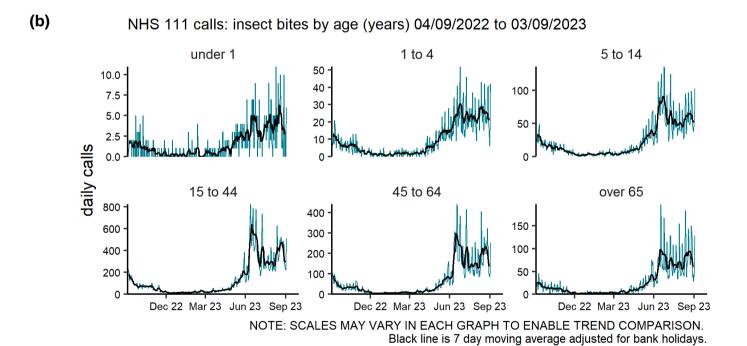
Black line is 7 day moving average adjusted for bank holidays.

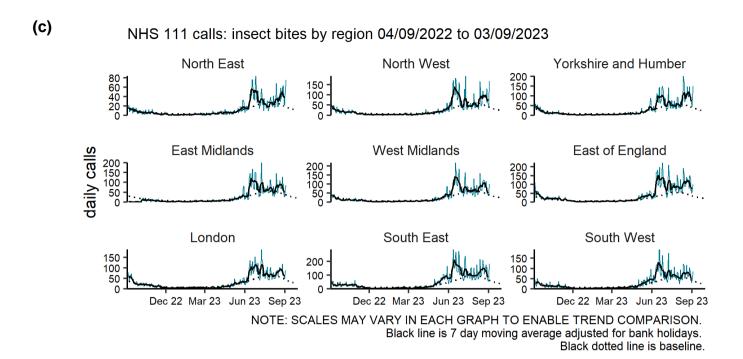


#### Insect bites NHS 111 calls

Figure 21: Daily number of NHS 111 calls (and 7-day moving average adjusted for bank holidays) for insect bites, England (a) nationally, (b) by age and (c) by UKHSA Region.



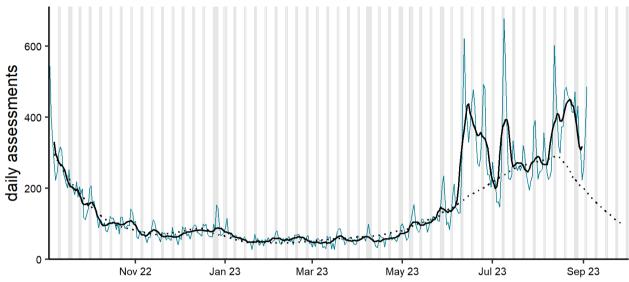




#### Insect bites NHS 111 online

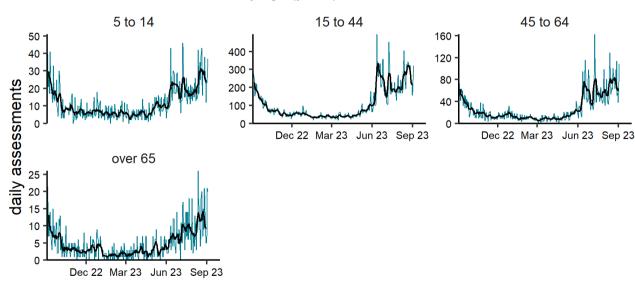
Figure 22: Daily number of completed NHS 111 online assessments (and 7-day moving average adjusted for bank holidays) for insect bites, England (a) nationally, (b) by age and (c) by UKHSA Region.

(a) NHS 111 online: insect bites 04/09/2022 to 03/09/2023



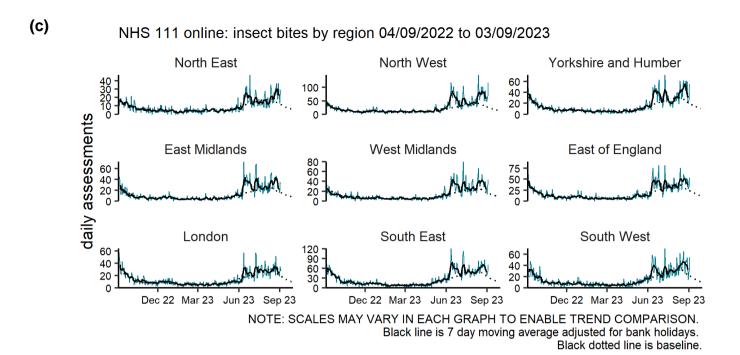
Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.





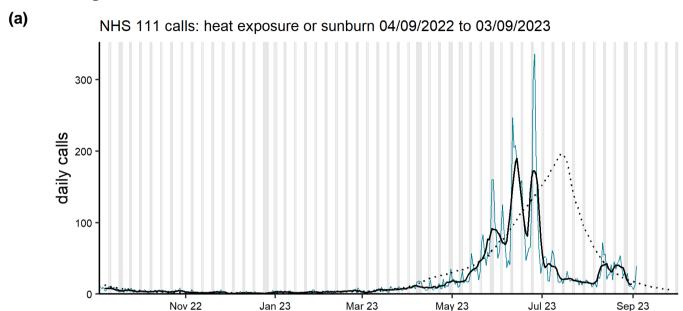
NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON.

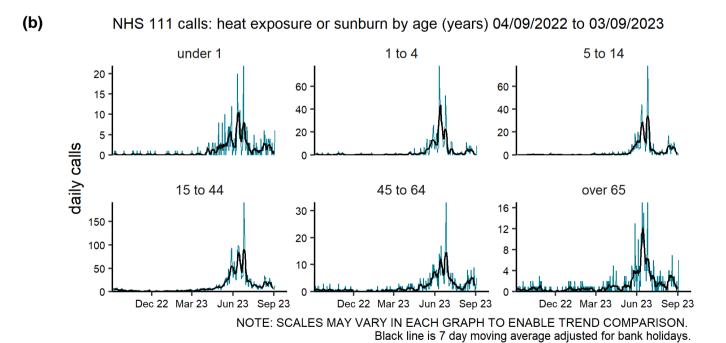
Black line is 7 day moving average adjusted for bank holidays.

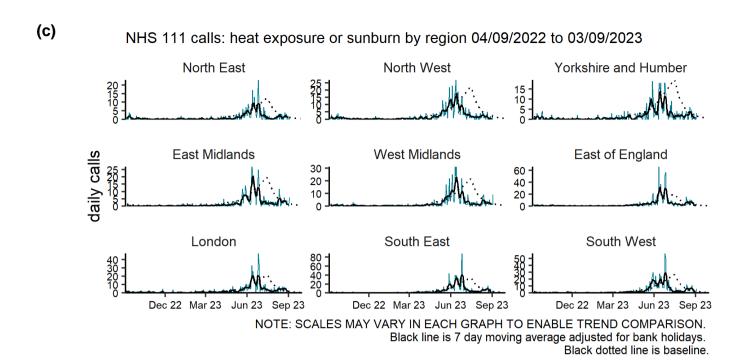


#### Heat exposure or sunburn NHS 111 calls

Figure 23: Daily number of NHS 111 calls (and 7-day moving average adjusted for bank holidays) for heat exposure or sunburn, England (a) nationally, (b) by age and (c) by UKHSA Region.



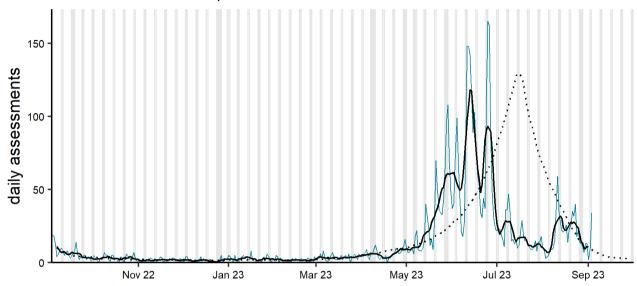




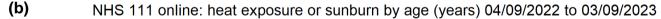
#### Heat exposure or sunburn NHS 111 online

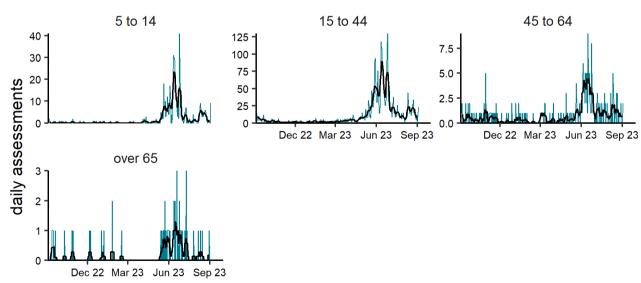
Figure 24: Daily number of completed NHS 111 online assessments (and 7-day moving average adjusted for bank holidays) for heat exposure or sunburn, England (a) nationally, (b) by age and (c) by UKHSA Region.

(a) NHS 111 online: heat exposure or sunburn 04/09/2022 to 03/09/2023



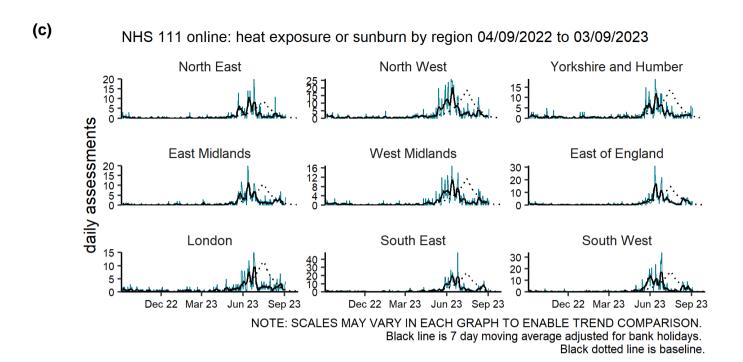
Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.





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

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



#### **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:

- were last remodelled May 2023
- 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, 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 affect NHS 111 usage
- 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
- o 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 Digital 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.

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