

Remote Health Advice Syndromic Surveillance System Bulletin (England) 2023 Week 41

Key messages

Data reported to: 15 October 2023

During week 41, syndromic respiratory indicators including NHS 111 calls for cough, cold/flu and difficulty breathing increased in children aged <1 and 1-4 years, in line with seasonally expected activity. 'Potential COVID-19' NHS 111 calls and assessments remained stable during week 41.

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 ¹	Level
Total NHS 111 calls (Figure 1)	Increasing	No baseline
Total NHS 111 online (Figure 2)	No trend	No baseline
Cold/flu NHS 111 calls (Figure 3)	Decreasing	Below baseline
Cold/flu NHS 111 online (Figure 4)	Decreasing	Below 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)	Increasing	Below 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)	Increasing	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)	Decreasing	Similar to baseline
Vomiting NHS 111 calls (Figure 17)	No trend	Similar to baseline
Vomiting NHS 111 online (Figure 18)	Decreasing	Above baseline
Eye problems NHS 111 calls (Figure 19)	No trend	Above baseline
Eye problems NHS 111 online (Figure 20)	No trend	Below 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) 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.

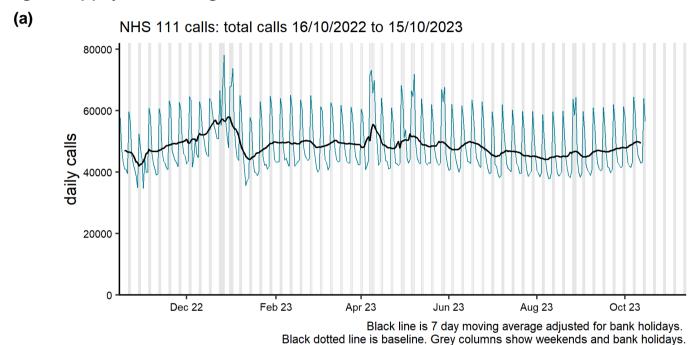
Data quality issues of note this week

Nothing new to report this week.

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) 16/10/2022 to 15/10/2023 (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 Jan 23 Apr 23 Jul 23 Oct 23 Jan 23 Apr 23 Jul 23 Oct 23 Jan 23 Apr 23 Jul 23 Oct 23 NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON.

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

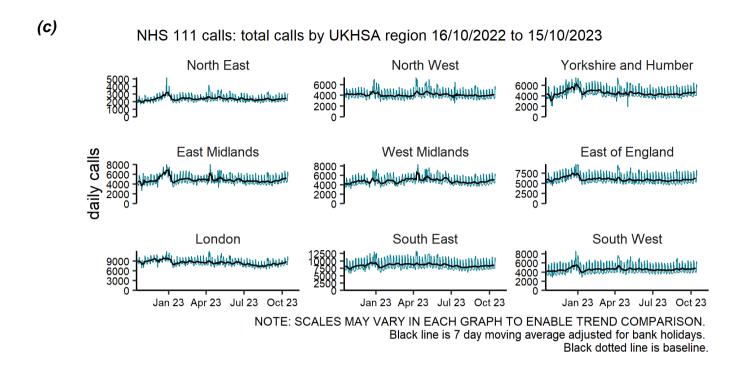
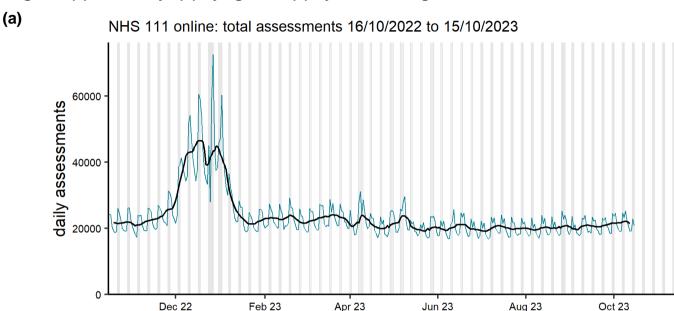


Table 2: The number of NHS 111 calls in England recorded each day in the most recent week.

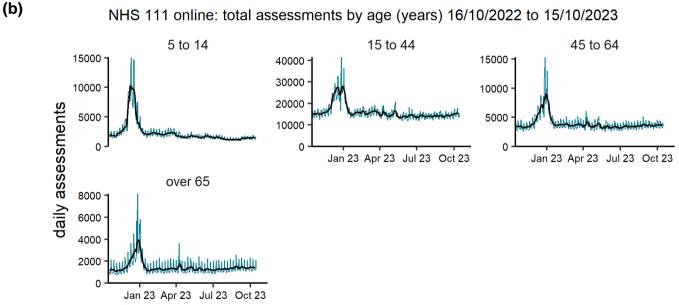
Date	Number of calls
09 October 2023	49,685
10 October 2023	45,429
11 October 2023	44,145
12 October 2023	42,931
13 October 2023	43,322
14 October 2023	64,052
15 October 2023	56,466

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.



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



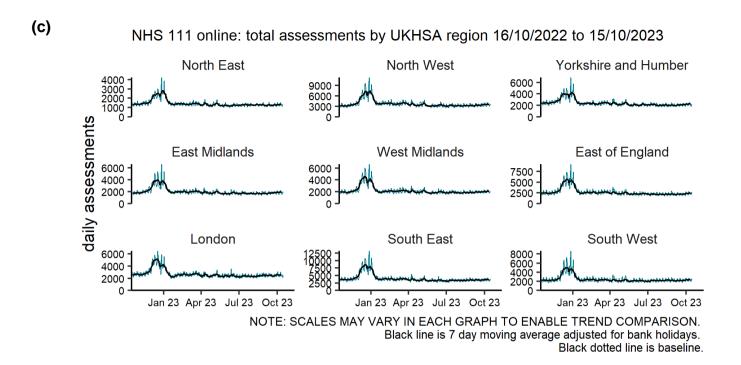


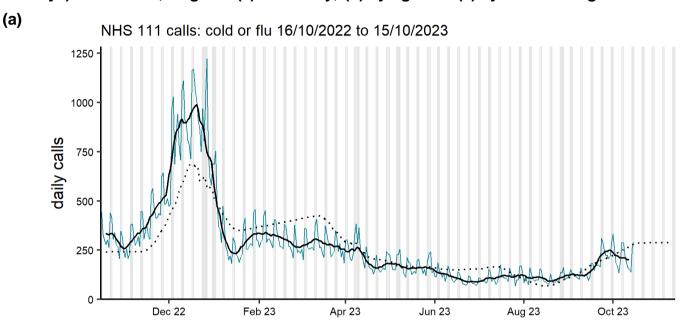
Table 3: The number of completed NHS 111 online assessments in England recorded each day in the most recent week.

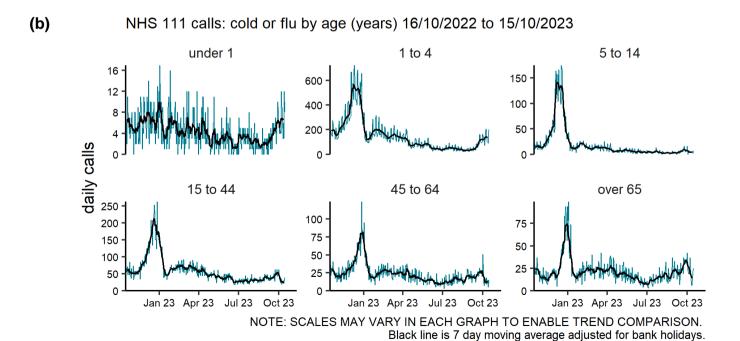
Date	Number of completed assessments
09 October 2023	25,390
10 October 2023	22,313
11 October 2023	20,851
12 October 2023	19,234
13 October 2023	19,329
14 October 2023	23,026
15 October 2023	20,824

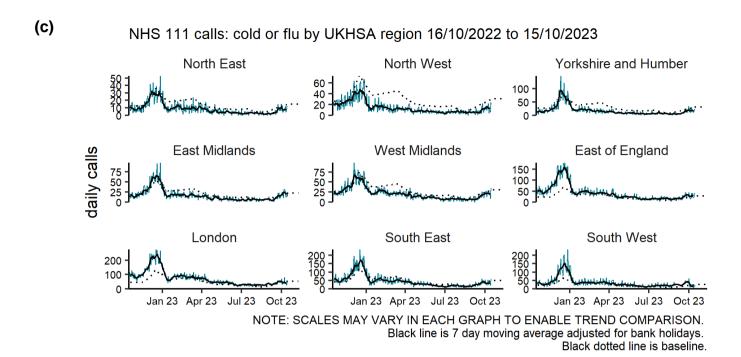
Respiratory conditions

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.







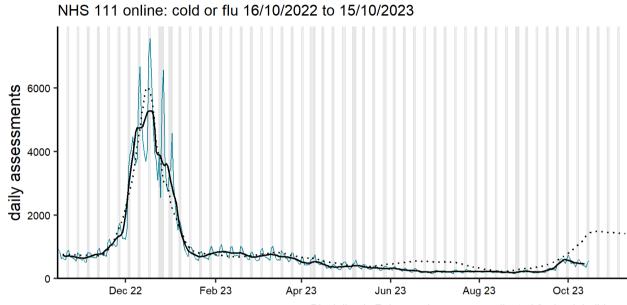
Cold/flu NHS 111 online

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.

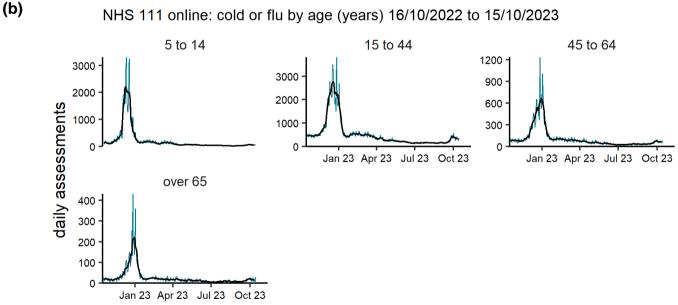
by UKHSA Region.

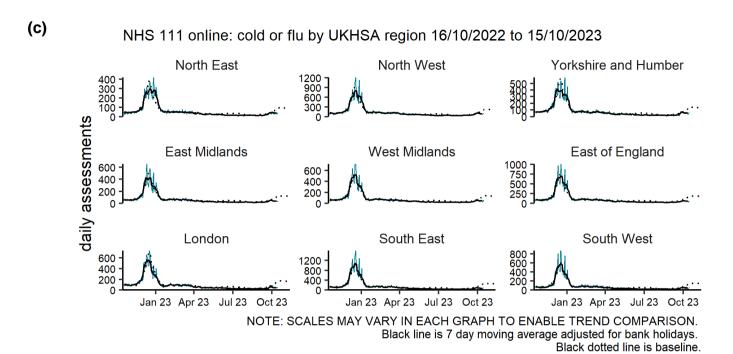
(a)

NUS 111 online: cold or flu 16/10/2022 to 15/10/2022



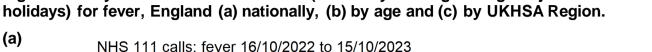
Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.

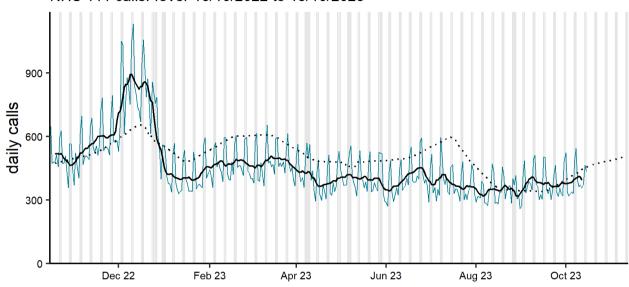


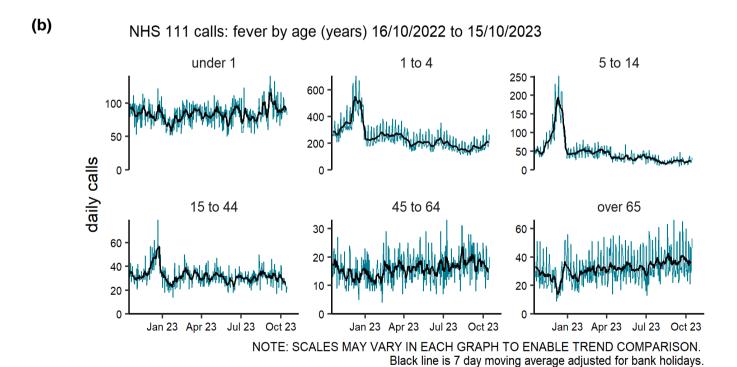


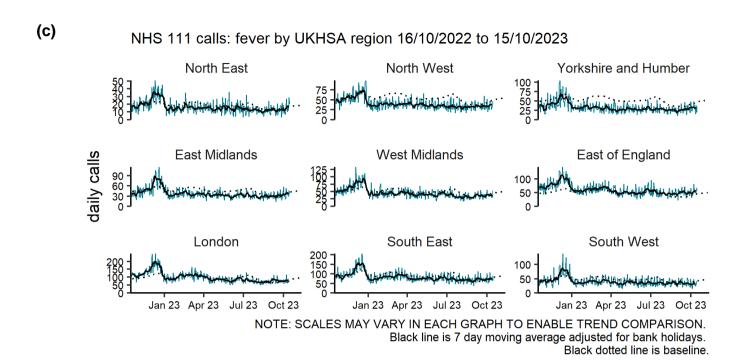
Fever NHS 111 calls

Figure 5: Daily number of NHS 111 calls (and 7-day moving average adjusted for bank



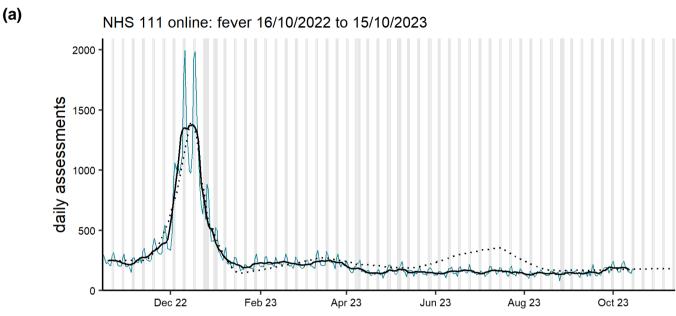




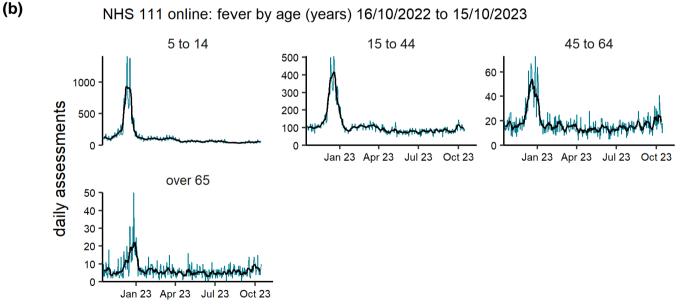


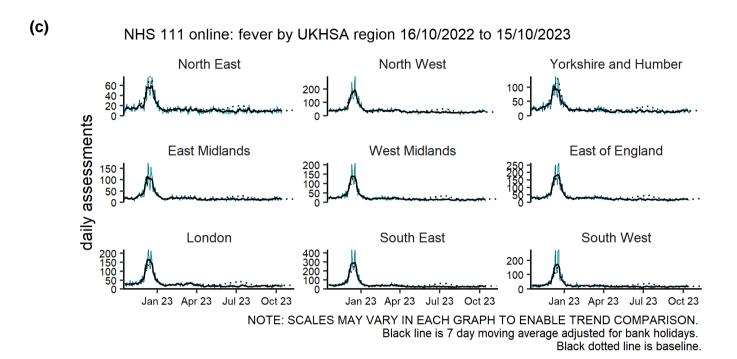
Fever NHS 111 online

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.



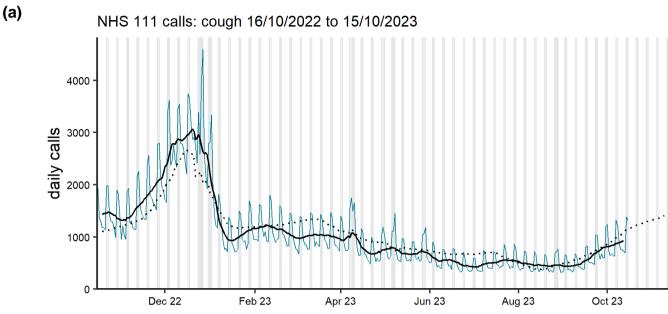
Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.

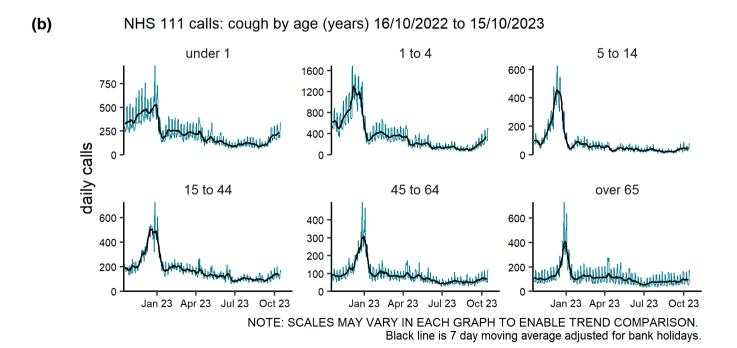


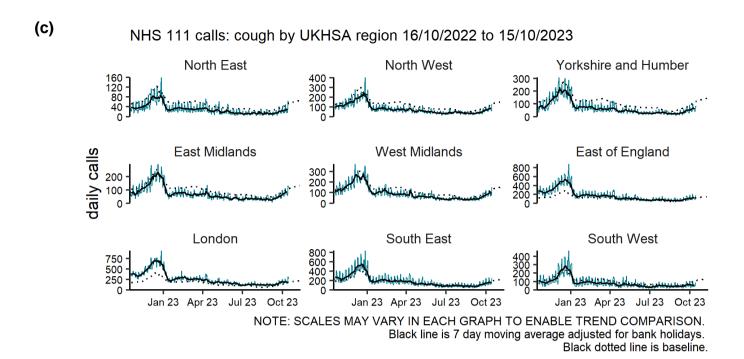


Cough NHS 111 calls

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.

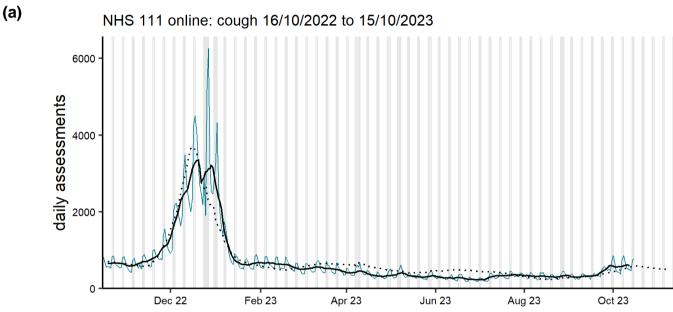


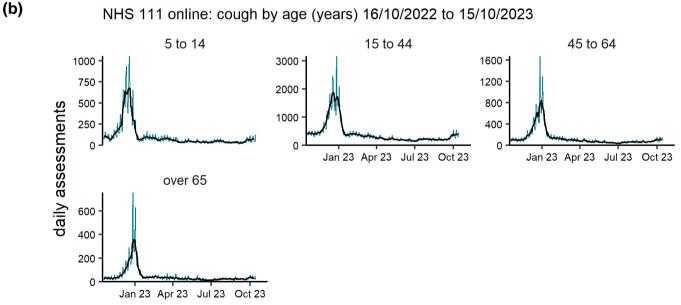


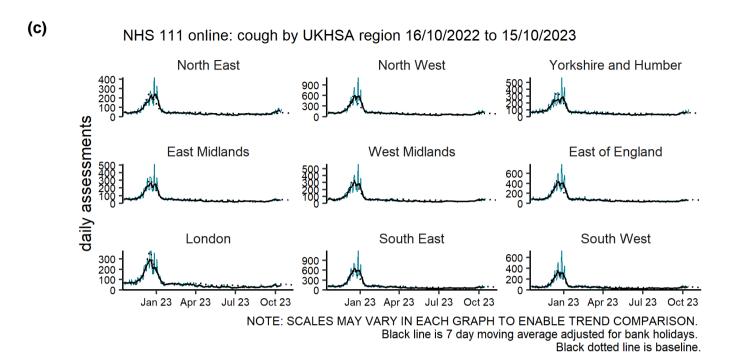


Cough NHS 111 online

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.



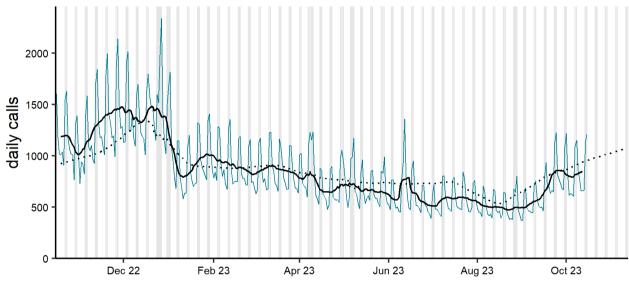




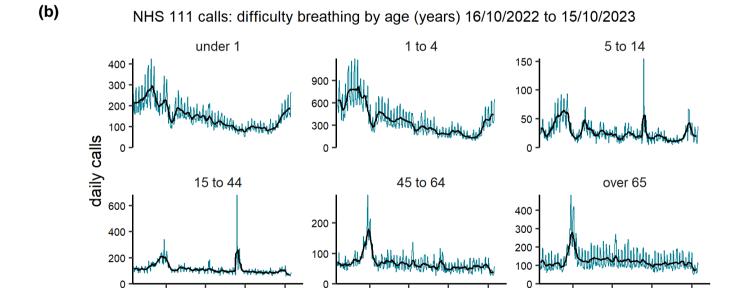
Difficulty breathing NHS 111 calls

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.



Oct 23

Jul 23

Jan 23 Apr 23

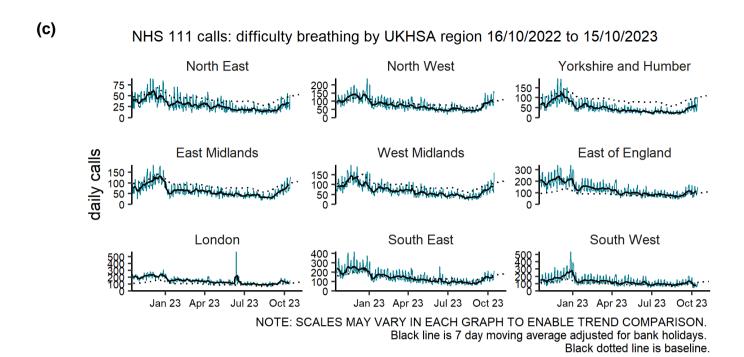
NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON.

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

Jan 23

Apr 23

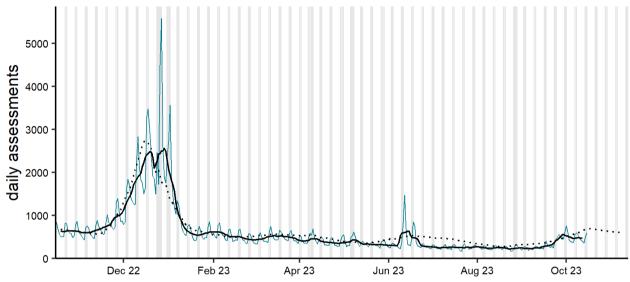
Jan 23 Apr 23



Difficulty breathing NHS 111 online

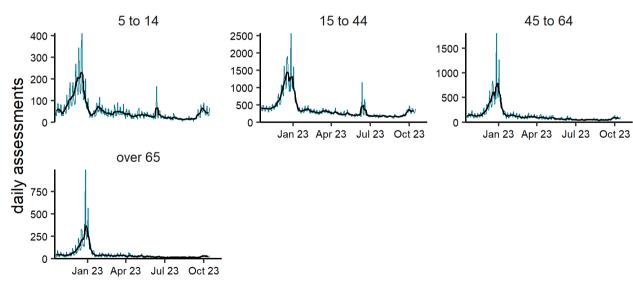
Figure 10: Daily number of completed NHS 111 online assessments (and 7-day moving average adjusted for bank holidays) for difficulty breathing, England (a) nationally, (b) by age and (c) by UKHSA Region.

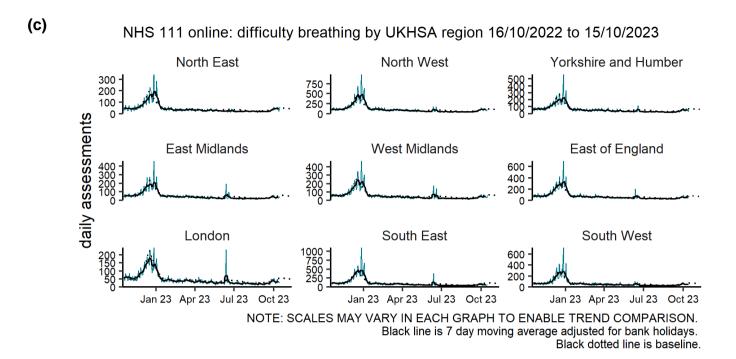
(a) NHS 111 online: difficulty breathing 16/10/2022 to 15/10/2023



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

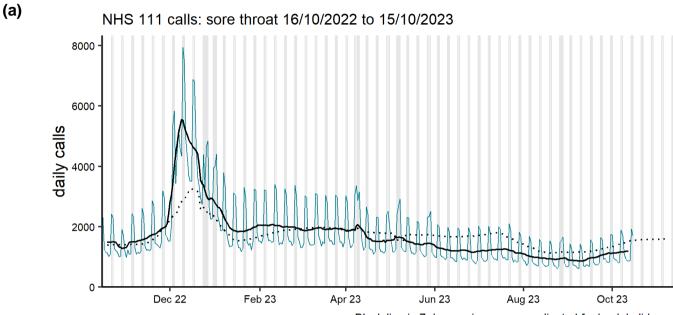
(b) NHS 111 online: difficulty breathing by age (years) 16/10/2022 to 15/10/2023

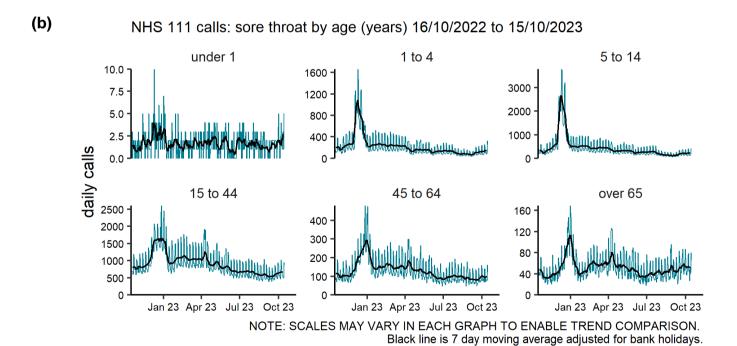


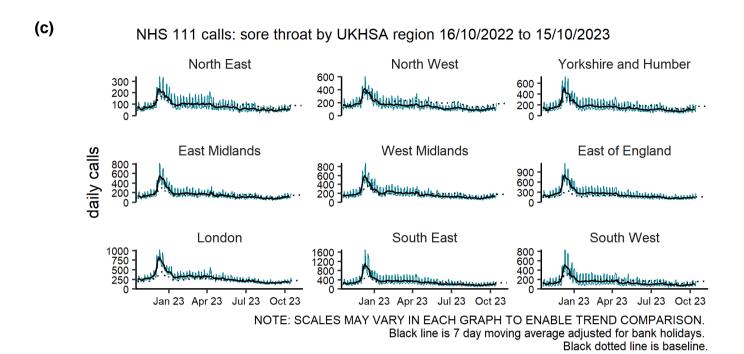


Sore throat NHS 111 calls

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.

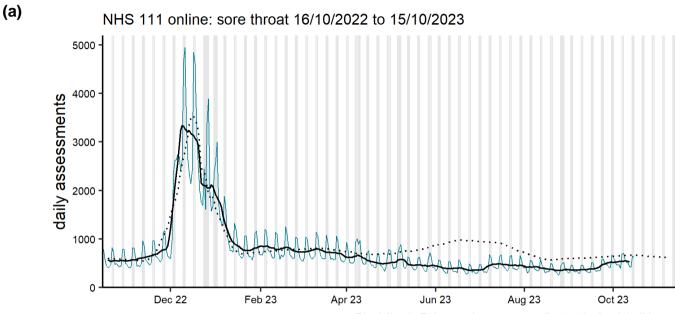




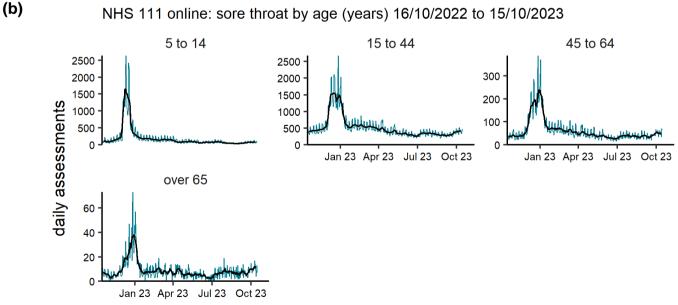


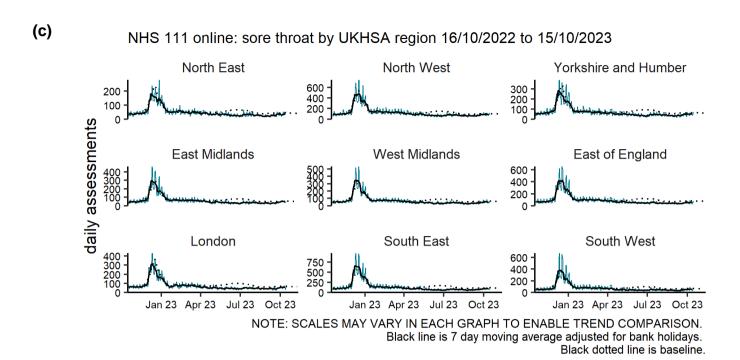
Sore throat NHS 111 online

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.



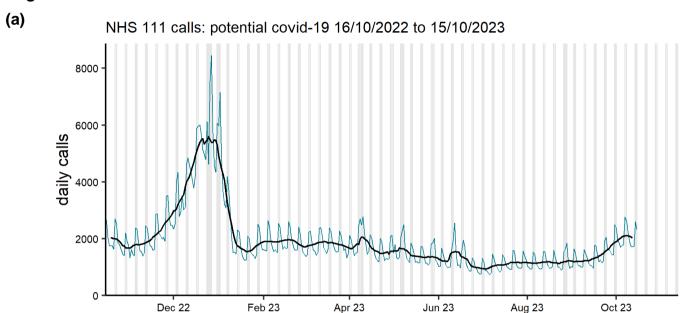
Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.

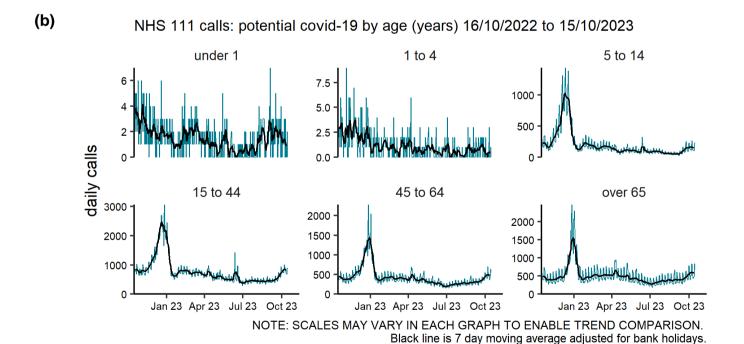


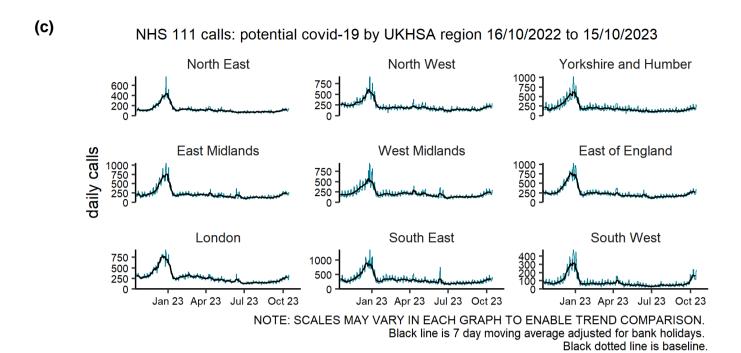


Potential COVID-19 NHS 111 calls

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.

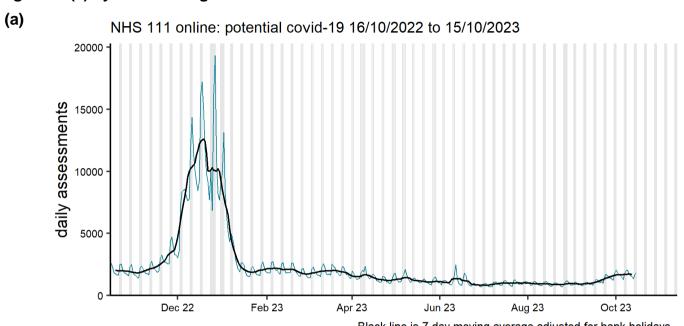




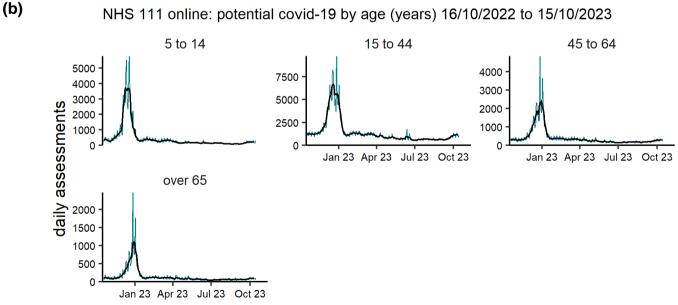


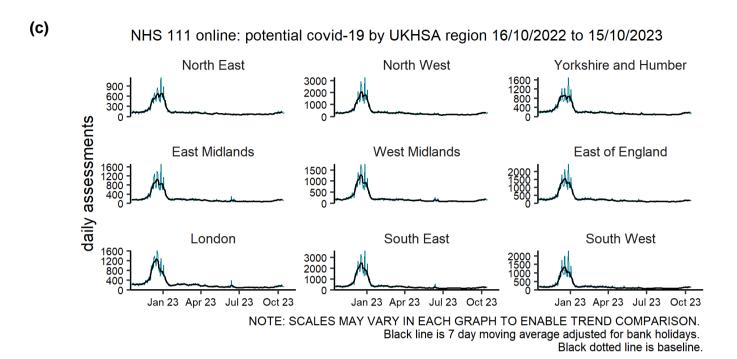
Potential COVID-19 NHS 111 online

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.



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

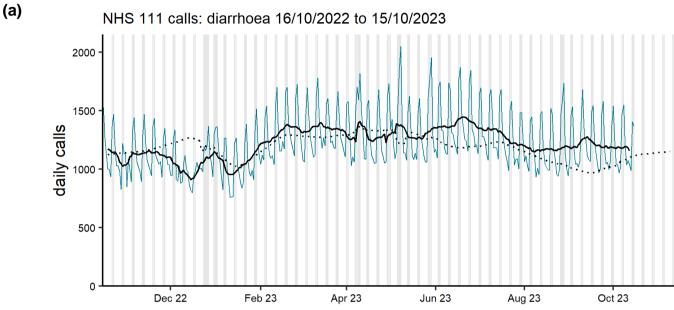


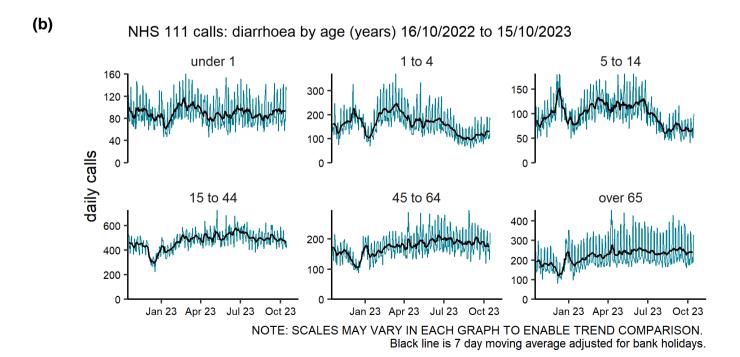


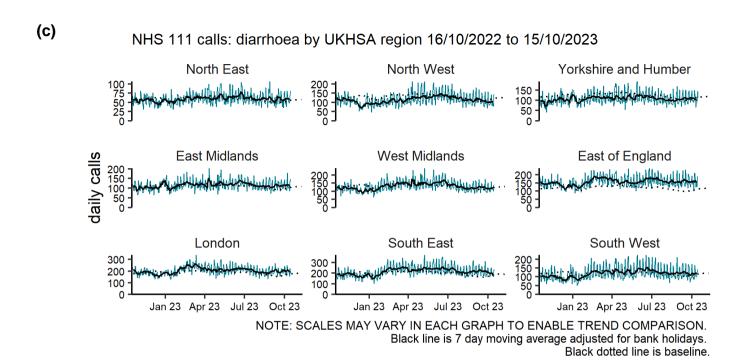
Gastrointestinal conditions

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.







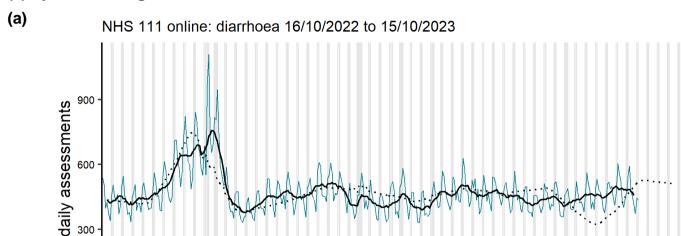
Diarrhoea NHS 111 online

Dec 22

Feb 23

300

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.

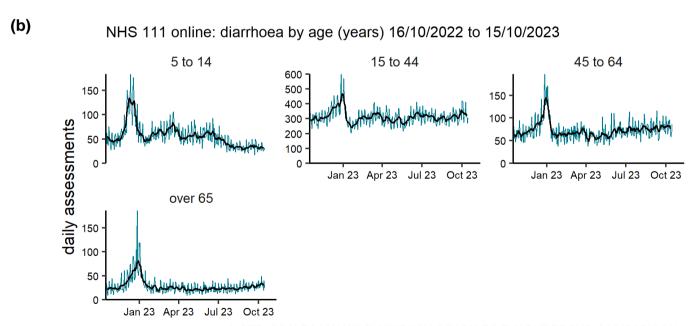


Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.

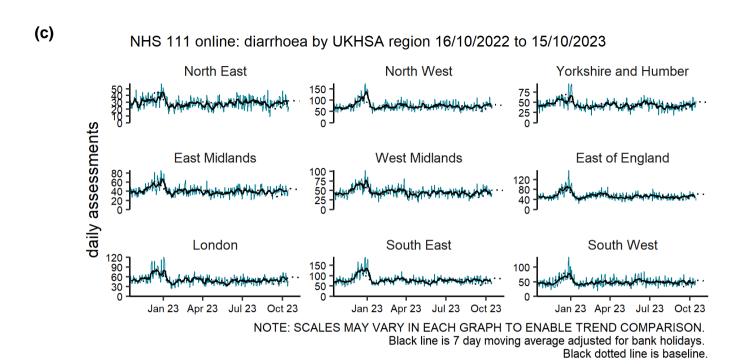
Jun 23

Aug 23

Oct 23

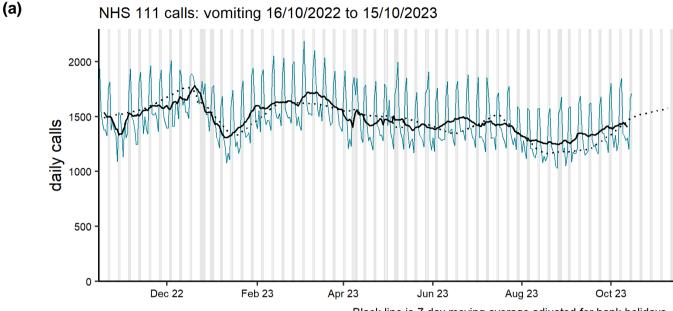


Apr 23

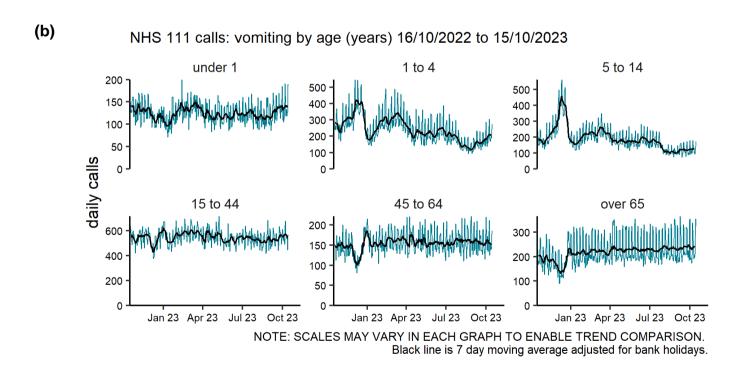


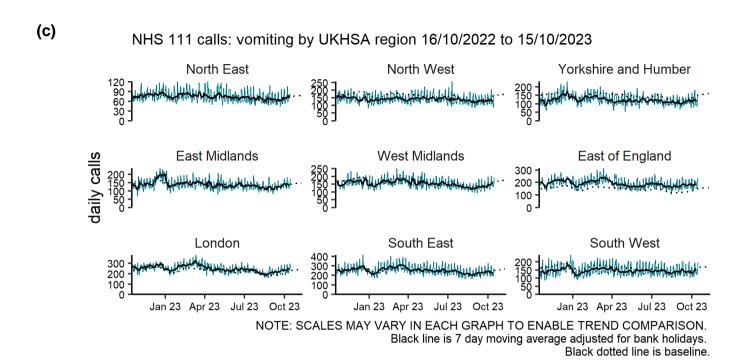
Vomiting NHS 111 calls

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.



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

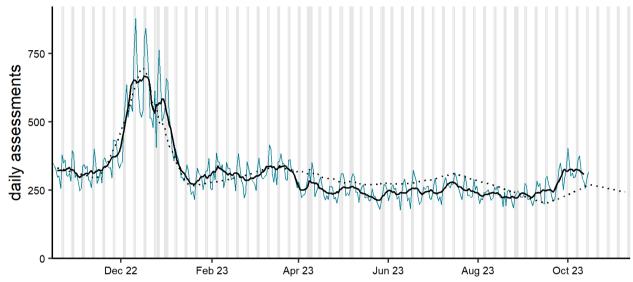




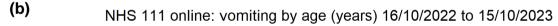
Vomiting NHS 111 online

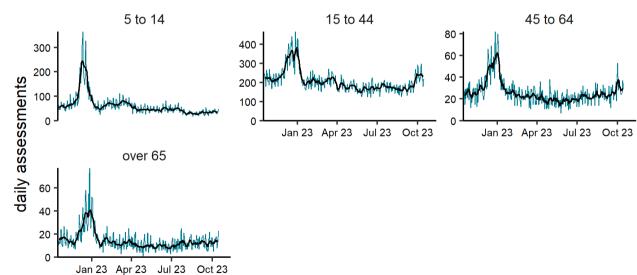
Figure 18: Daily number of completed NHS 111 online assessments (and 7-day moving average adjusted for bank holidays) for vomiting, England (a) nationally, (b) by age and (c) by UKHSA Region.

(a) NHS 111 online: vomiting 16/10/2022 to 15/10/2023



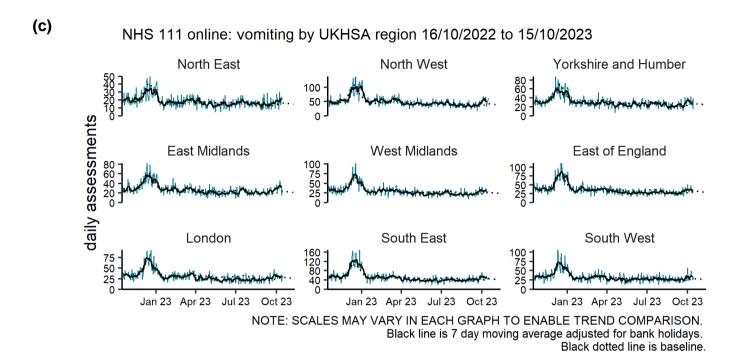
Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.





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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:

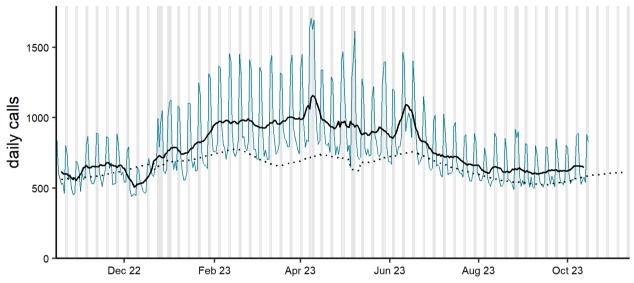
No alerts issued

No weather-health alerts in place

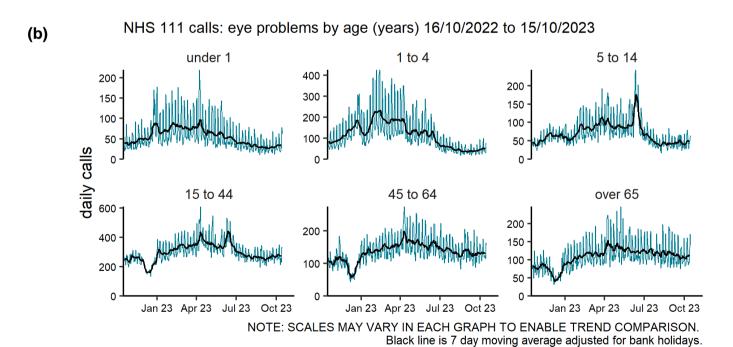
Eye problems NHS 111 calls

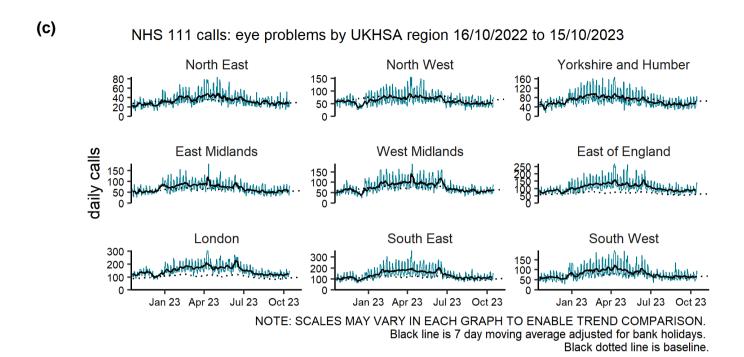
Figure 19: Daily number of NHS 111 calls (and 7-day moving average adjusted for bank holidays) for eye problems, England (a) nationally, (b) by age and (c) by UKHSA Region.sd





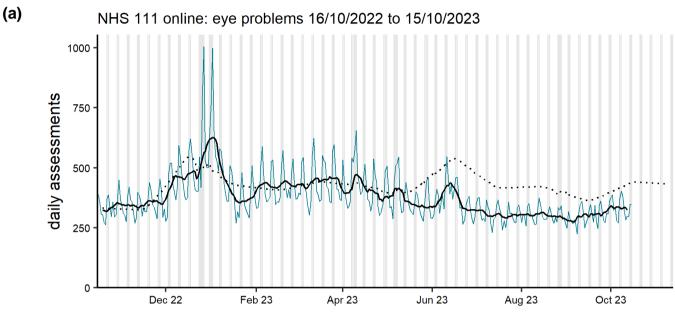
Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.



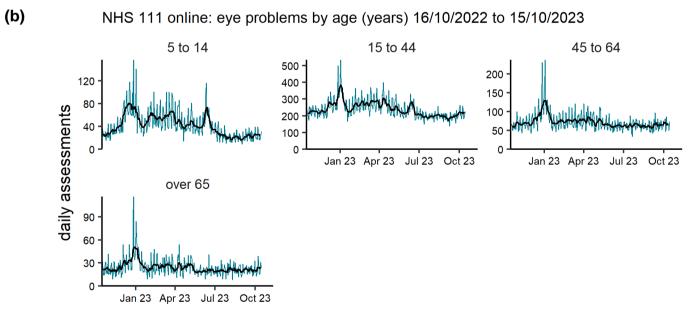


Eye problems NHS 111 online

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.

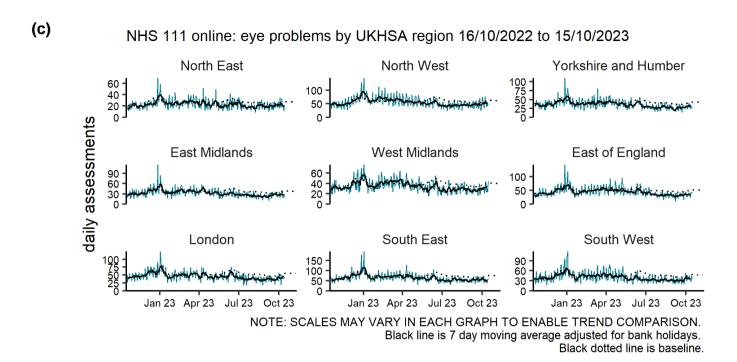


Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.



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

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



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
- o 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

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About the UK Health Security Agency

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