

Remote Health Advice Syndromic Surveillance System Bulletin (England) 2022 Week 48

Key messages

Data reported to: 4 December 2022

During week 48, large increases were observed in NHS 111 total calls and online assessments in the 1-4 and 5-14 years age groups. Also in those age groups, increases were noted across a range of respiratory indicators including cold/flu, cough, difficulty breathing and sore throat. NHS 111 calls and assessments for cold/flu were seen to increase across other adult age groups, in addition to children.

Please note: the widespread national media coverage of the 'group A strep' incident reported over the weekend is likely to have increased the volume of NHS 111 calls and online assessments, particularly for children with respiratory symptoms.

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)	Increasing	No baseline
Cold/flu NHS 111 calls (Figure 3)	Increasing	Above baseline
Cold/flu NHS 111 online (Figure 4)	Increasing	Similar to baseline
Fever NHS 111 calls (Figure 5)	Increasing	Below baseline
Fever NHS 111 online (Figure 6)	Increasing	Similar to baseline
Cough NHS 111 calls (Figure 7)	Increasing	Above baseline
Cough NHS 111 online (Figure 8)	Increasing	Below baseline
Difficulty breathing NHS 111 calls (Figure 9)	Increasing	Below baseline
Difficulty breathing NHS 111 online (Figure 10)	Increasing	Below baseline
Sore throat NHS 111 calls (Figure 11)	Increasing	Above baseline
Sore throat NHS 111 online (Figure 12)	Increasing	Above baseline
Potential COVID-19 NHS 111 calls (Figure 13)	Increasing	No baseline
Potential COVID-19 NHS 111 online (Figure 14)	Increasing	No baseline
Diarrhoea NHS 111 calls (Figure 15)	No trend	Below baseline
Diarrhoea NHS 111 online (Figure 16)	Increasing	Above baseline
Vomiting NHS 111 calls (Figure 17)	No trend	Below baseline
Vomiting NHS 111 online (Figure 18)	Increasing	Above baseline
Eye problems NHS 111 calls (Figure 19)	No trend	Below baseline
Eye problems NHS 111 online (Figure 20)	No trend	Above baseline

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

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About this syndromic surveillance system

This bulletin presents data from the UK Health Security Agency (UKHSA) 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.

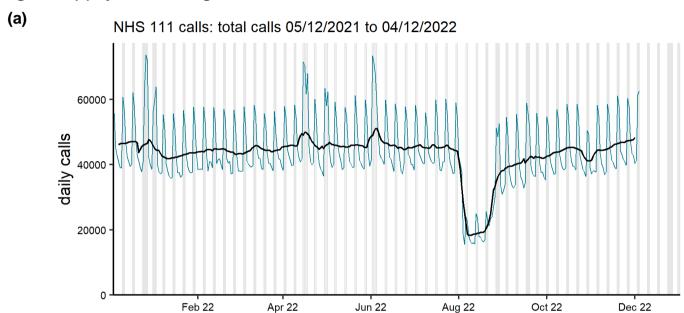
Data quality issues of note this week

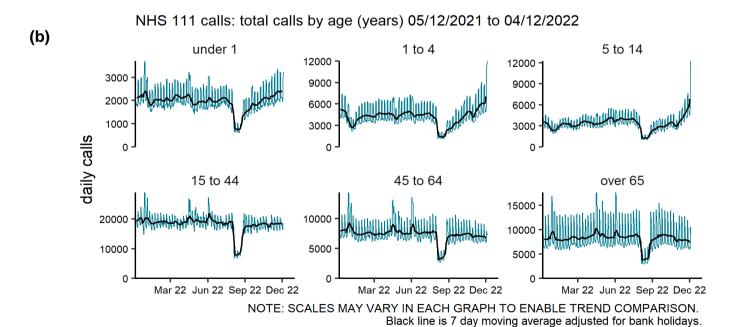
Syndromic NHS 111 calls presented in this report for August and September 2022 were low due to a widely publicised cybersecurity incident on 4 August, caused by ransomware that affected a NHS 111 clinical software system provider that is used in certain parts of the country.

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.





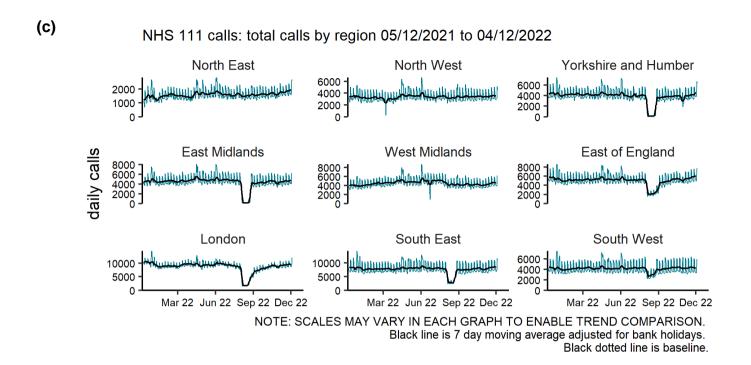
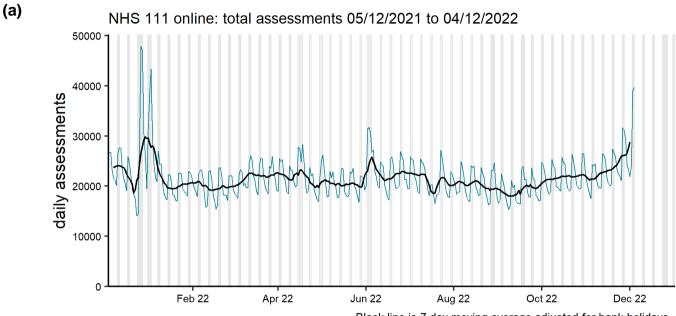


Table 2: The number of NHS 111 calls in England recorded each day in the most recent week.

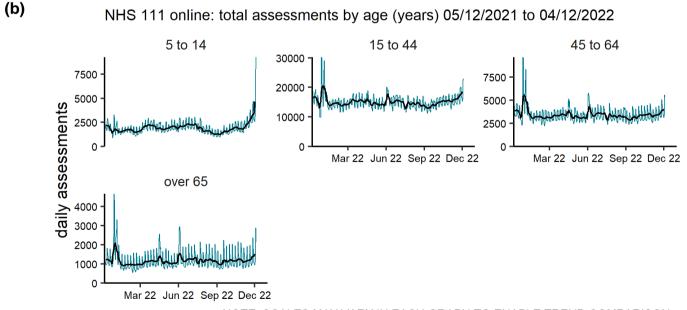
Date	Number of calls
28 November 2022	46,981
29 November 2022	43,441
30 November 2022	42,795
01 December 2022	40,390
02 December 2022	41,257
03 December 2022	61,669
04 December 2022	62,841

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.



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

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

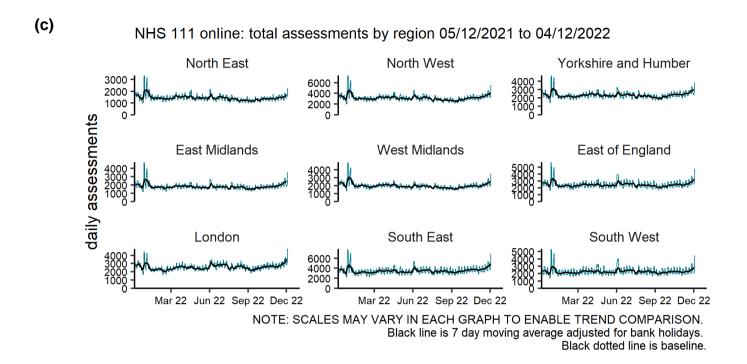


Table 3: The number of completed NHS 111 online assessments in England recorded each day in the most recent week.

Date	Number of completed assessments
28 November 2022	29,207
29 November 2022	23,996
30 November 2022	22,924
01 December 2022	21,598
02 December 2022	23,634
03 December 2022	38,618
04 December 2022	39,365

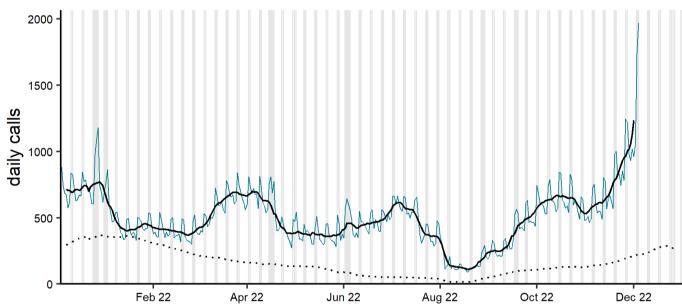
Respiratory conditions

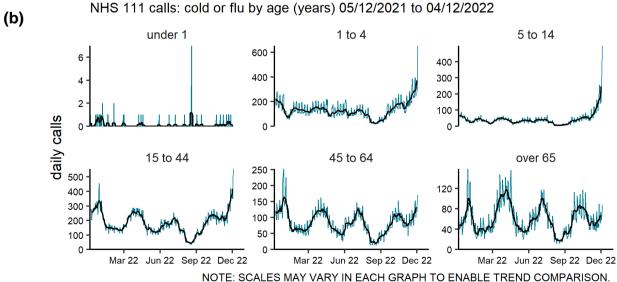
Cold/flu NHS 111 calls

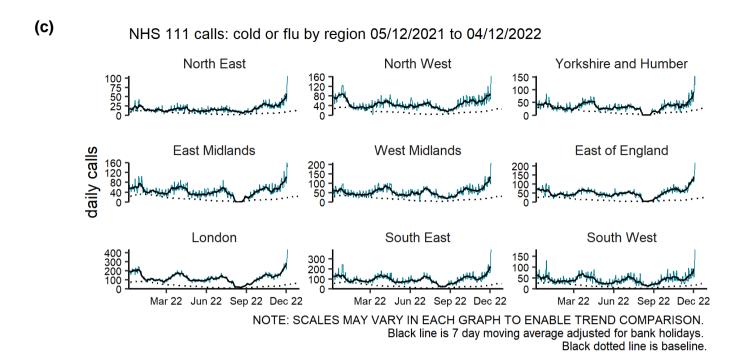
Figure 3: Daily number of NHS 111 calls (and 7-day moving average adjusted for bank holidays) for cold/flu, England (a) nationally, (b) by age and (c) by UKHSA Region.

(a)

NHS 111 calls: cold or flu 05/12/2021 to 04/12/2022

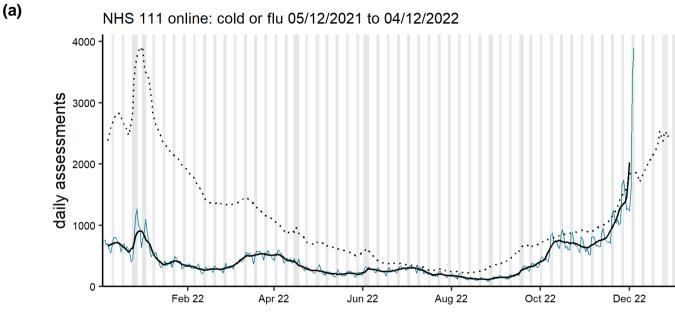




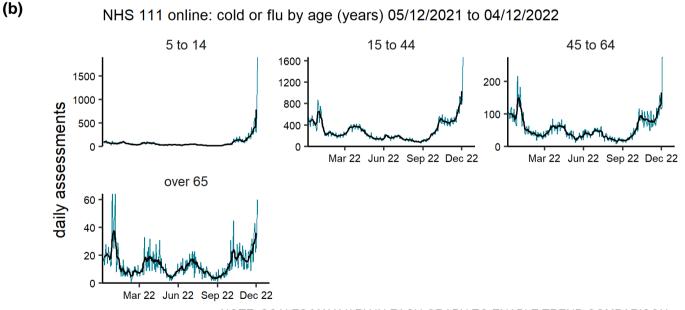


Cold/flu NHS 111 online

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.

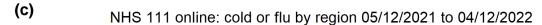


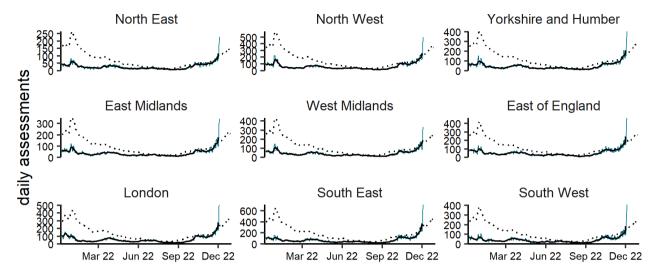
Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.



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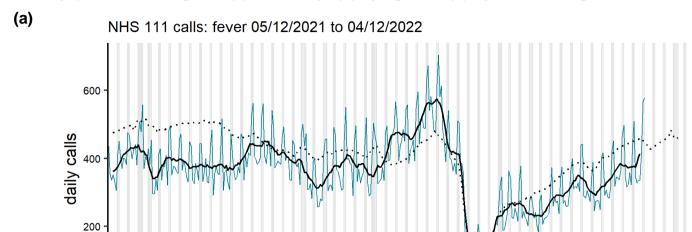
Black dotted line is baseline.

Feb 22

Apr 22

Fever NHS 111 calls

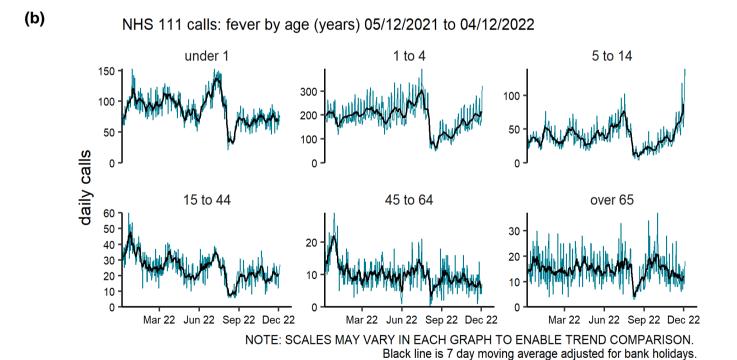
Figure 5: Daily number of NHS 111 calls (and 7-day moving average adjusted for bank holidays) for fever, England (a) nationally, (b) by age and (c) by UKHSA Region.



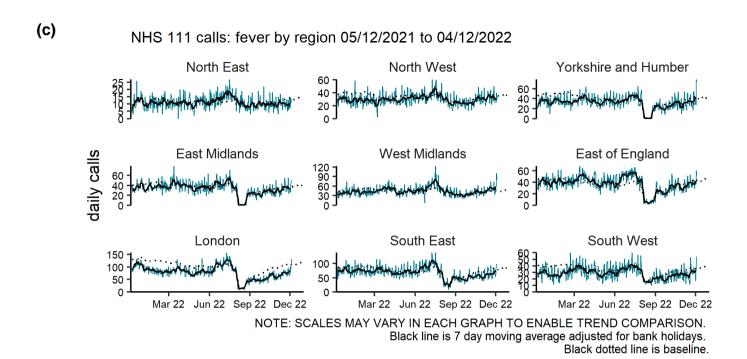
Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.

Dec 22

Aug 22



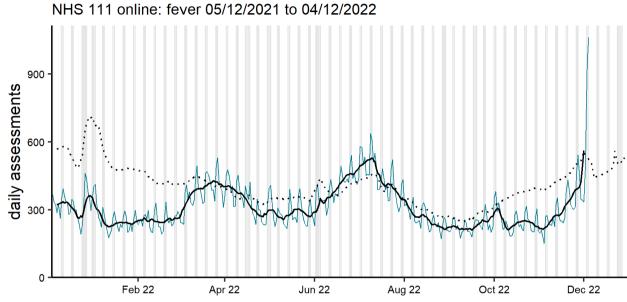
Jun 22



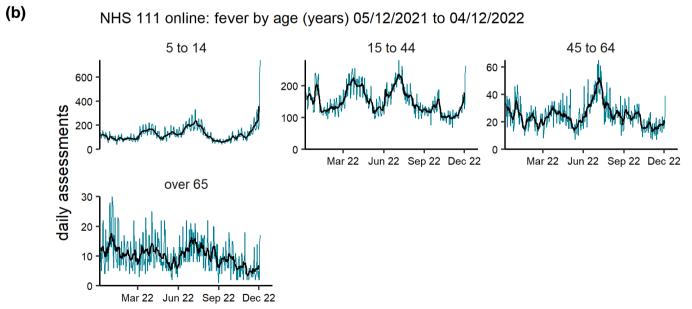
Fever NHS 111 online

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)

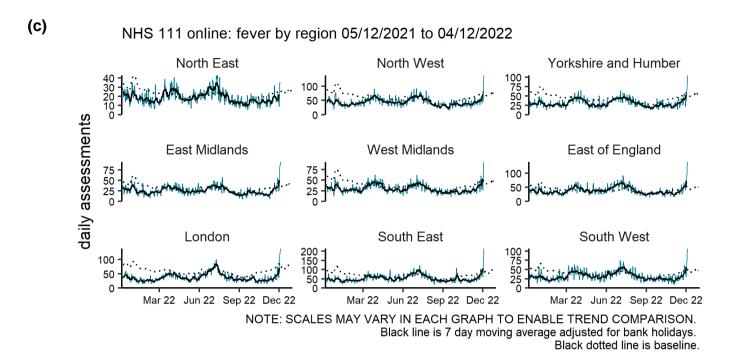
by UKHSA Region. (a)



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

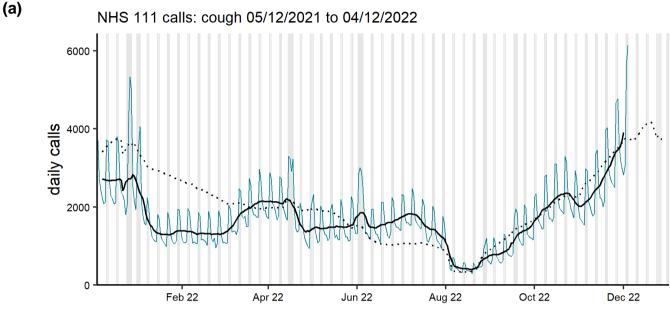


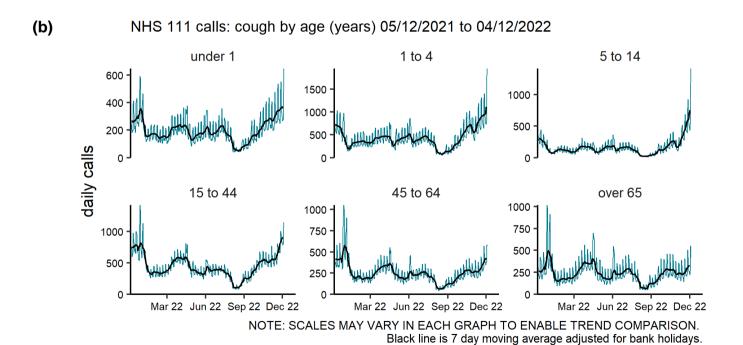
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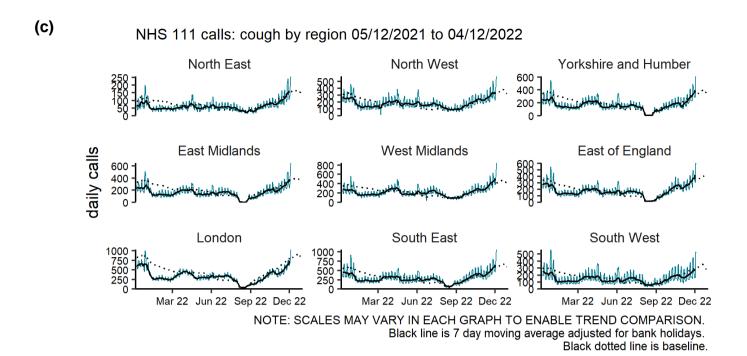


Cough NHS 111 calls

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.



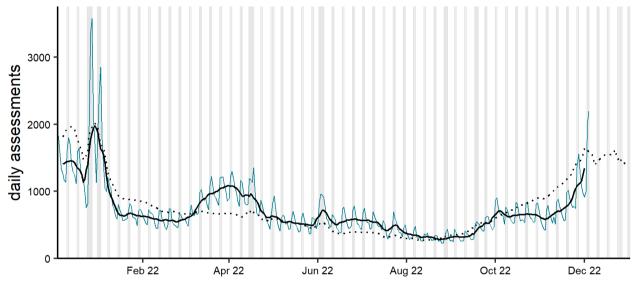




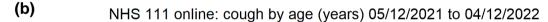
Cough NHS 111 online

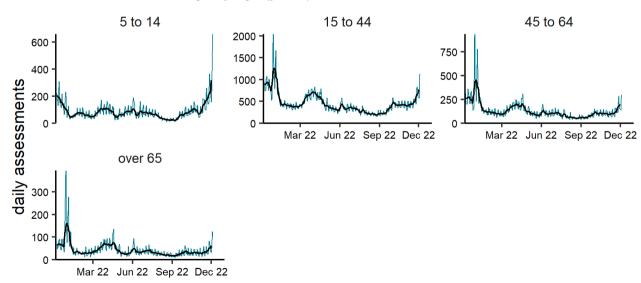
Figure 8: Daily number of completed NHS 111 online assessments (and 7-day moving average adjusted for bank holidays) for cough, England (a) nationally, (b) by age and (c) by UKHSA Region.

(a) NHS 111 online: cough 05/12/2021 to 04/12/2022



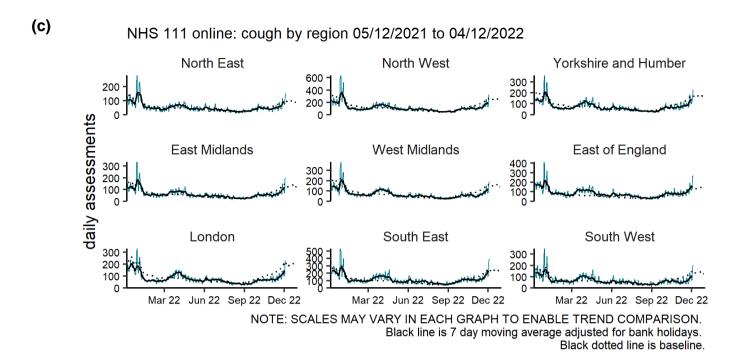
Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.





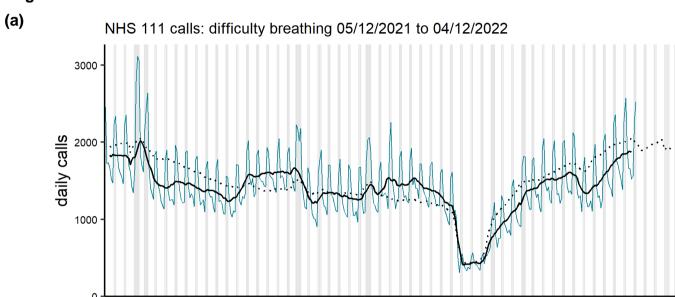
NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON.

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



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.



Jun 22

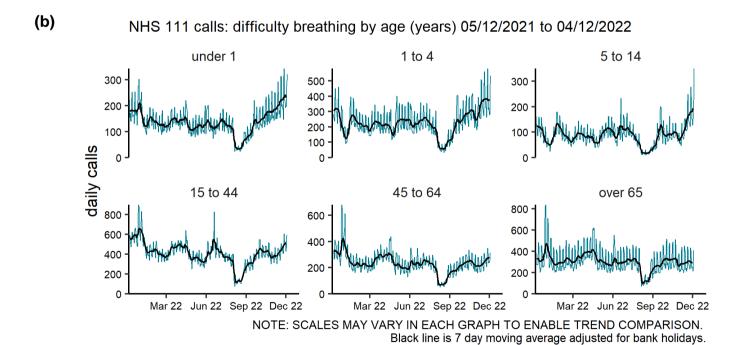
Apr 22

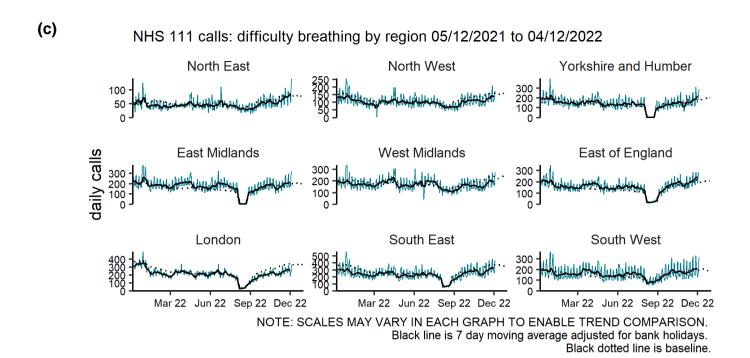
Feb 22

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

Oct 22

Aug 22





500

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 05/12/2021 to 04/12/2022 2000 daily assessments 1500 1000

Apr 22

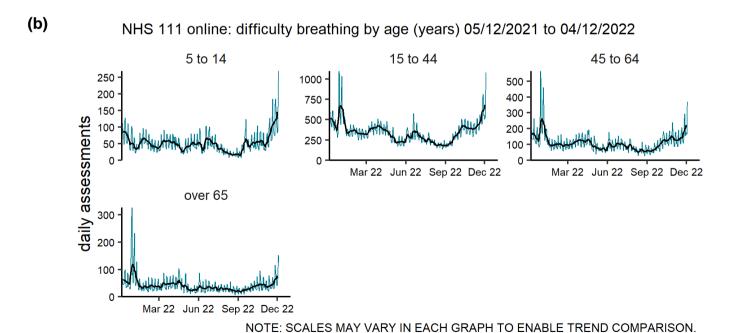
Feb 22

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

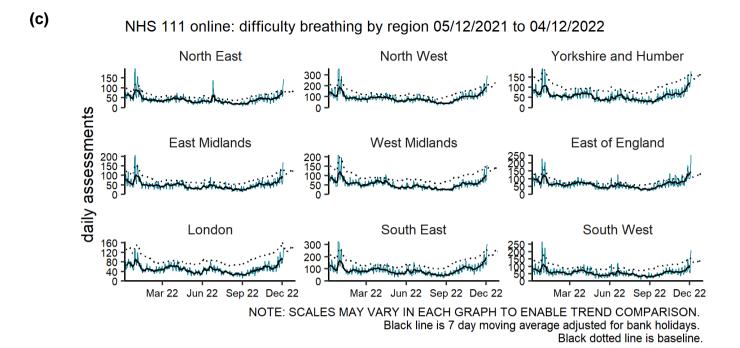
Aug 22

Oct 22

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

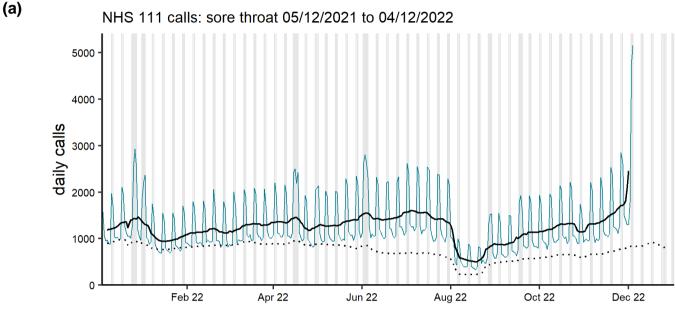


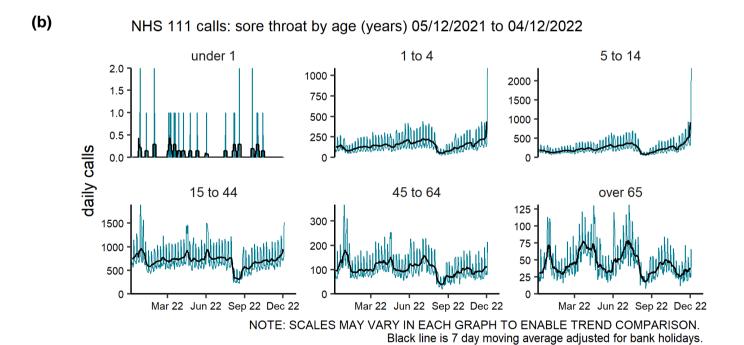
Jun 22

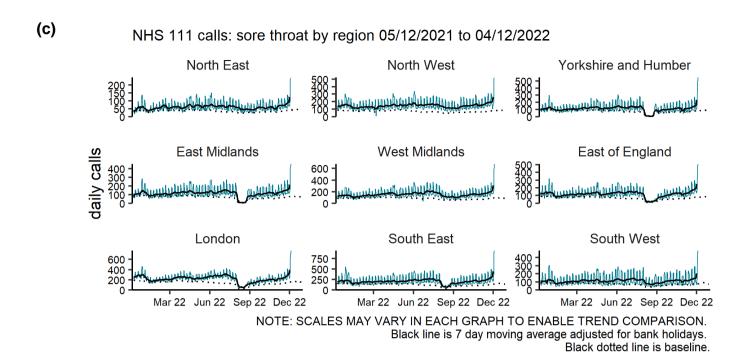


Sore throat NHS 111 calls

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.



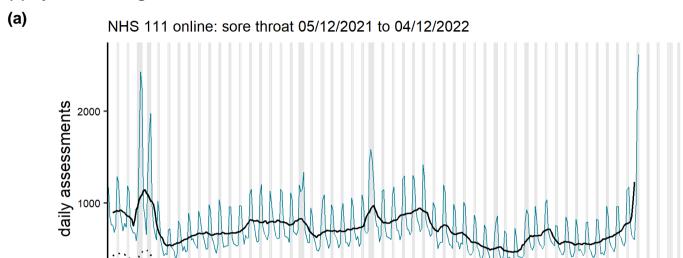




Sore throat NHS 111 online

Feb 22

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.



Jun 22

Apr 22

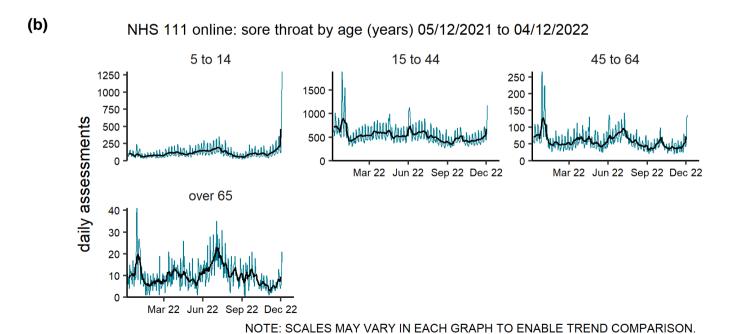
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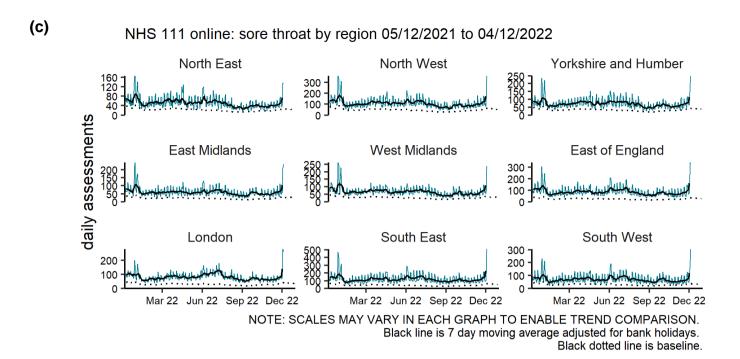
Oct 22

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

Dec 22

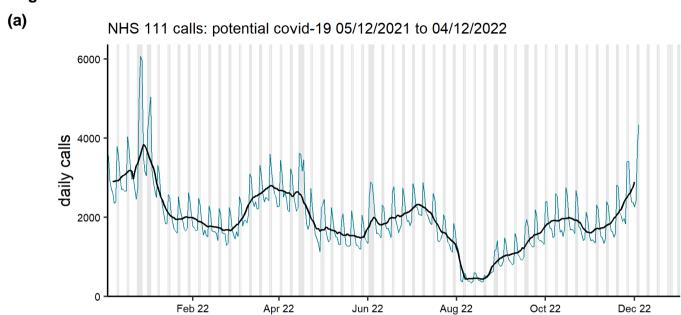
Aug 22

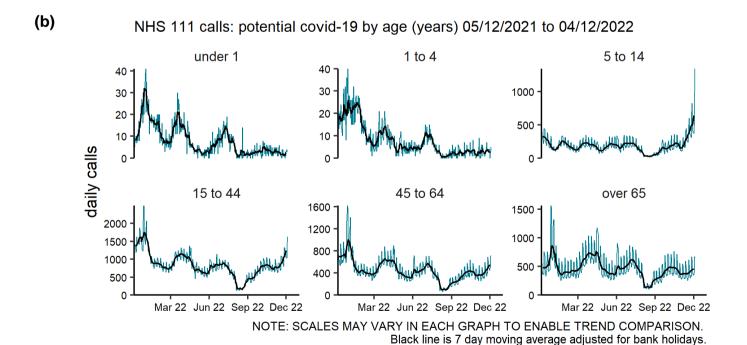


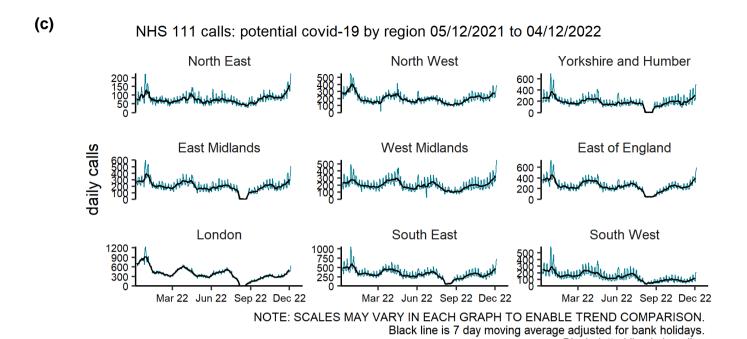


Potential COVID-19 NHS 111 calls

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.







Black dotted line is baseline.

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.

NHS 111 online: potential covid-19 05/12/2021 to 04/12/2022

***Bood - ***Bo

Jun 22

Apr 22

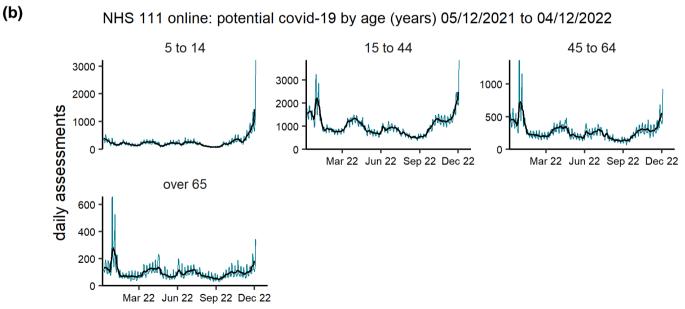
Feb 22

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Aug 22

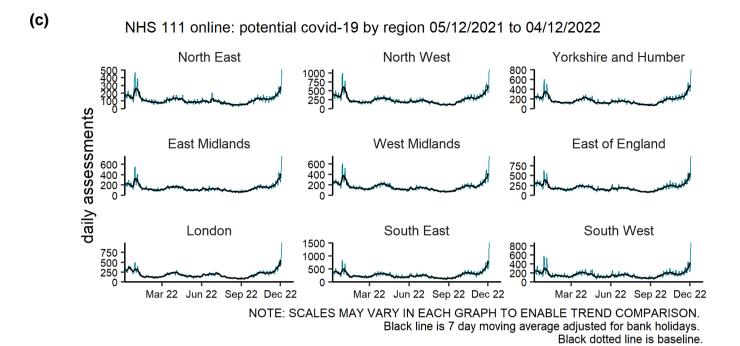
Oct 22

Dec 22



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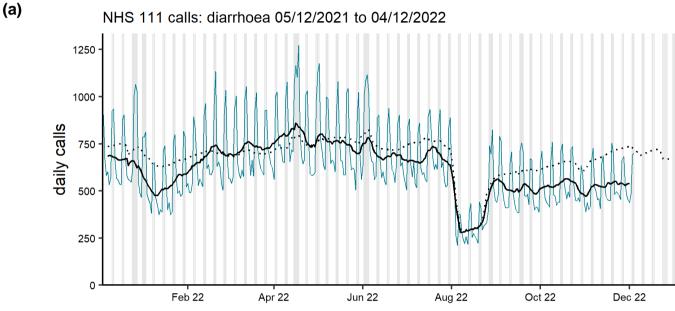
Black line is 7 day moving average adjusted for bank holidays.

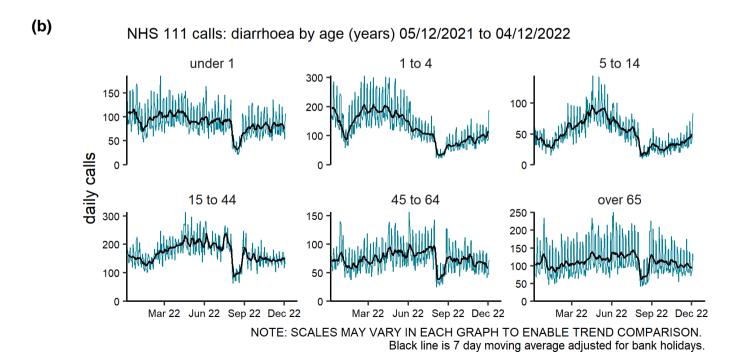


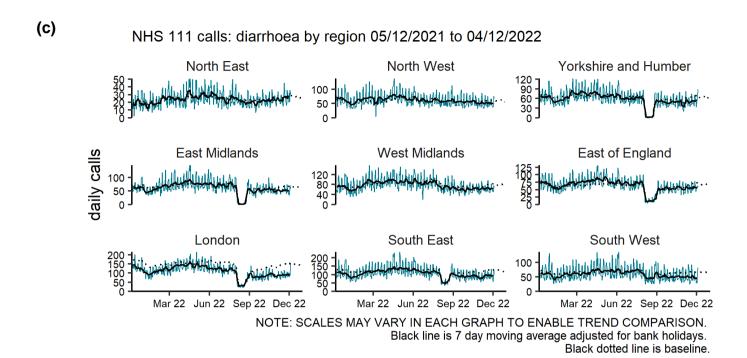
Gastrointestinal conditions

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.

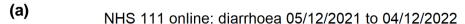


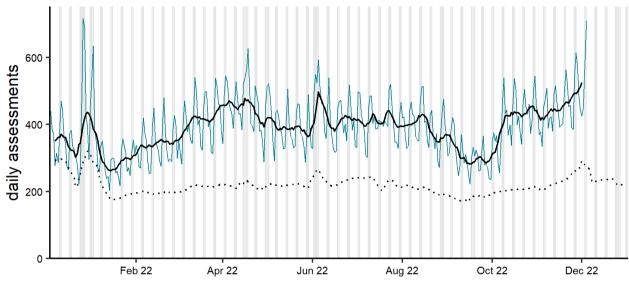




Diarrhoea NHS 111 online

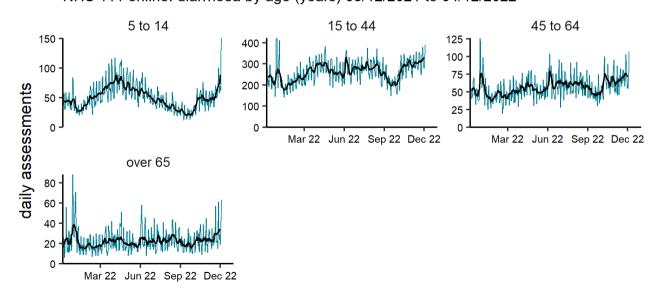
Figure 16: Daily number of completed NHS 111 online assessments (and 7-day moving average adjusted for bank holidays) for diarrhoea, England (a) nationally, (b) by age and (c) by UKHSA Region.





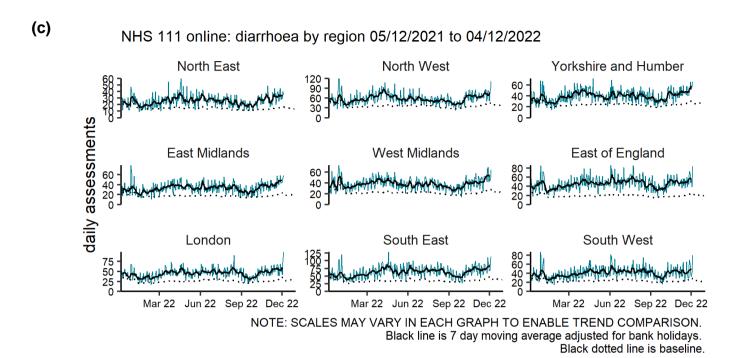
Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.

(b) NHS 111 online: diarrhoea by age (years) 05/12/2021 to 04/12/2022



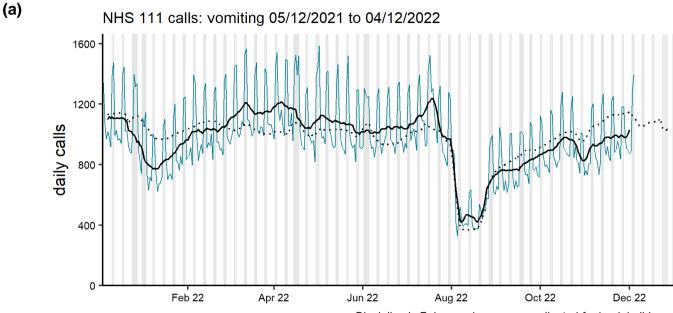
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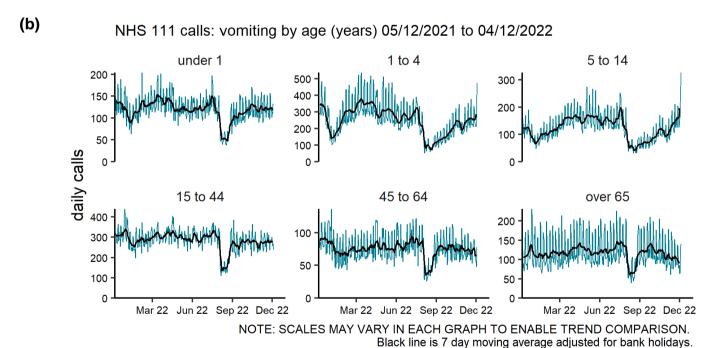


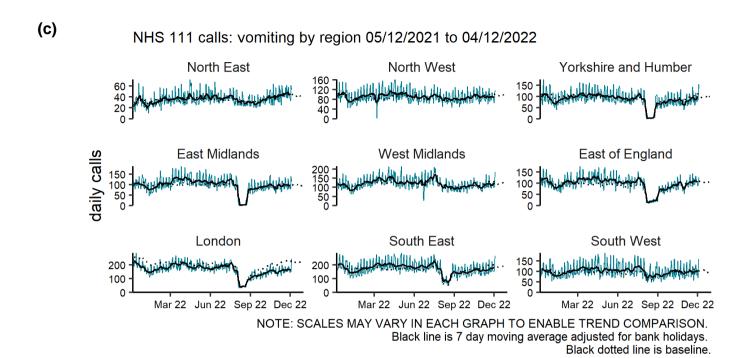
Vomiting NHS 111 calls

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

Feb 22

Apr 22

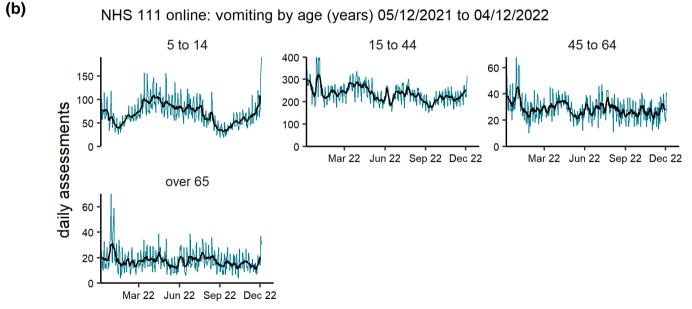
Figure 18: Daily number of completed NHS 111 online assessments (and 7-day moving average adjusted for bank holidays) for vomiting, England (a) nationally, (b) by age and (c) by UKHSA Region.

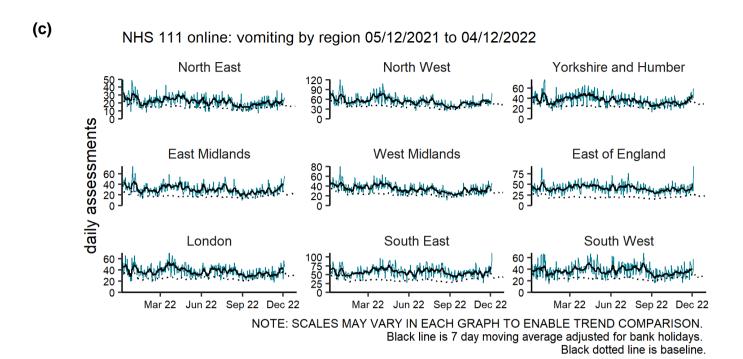
(a) NHS 111 online: vomiting 05/12/2021 to 04/12/2022 600 daily assessments 200 Aug 22

Jun 22

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

Oct 22





Seasonal environmental conditions

During set periods of the year the Met Office operates both heat and cold weather watch systems, in association with UKHSA. 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

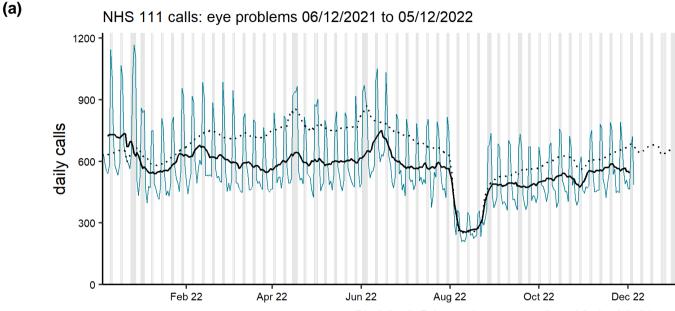
Heat-Health Alert period:1 June to 15 September

Highest weather alert level duing the current reporting week:

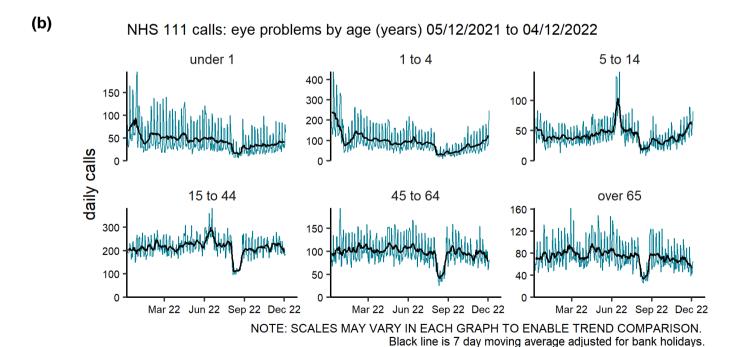
Level 1 - Winter preparedness and action

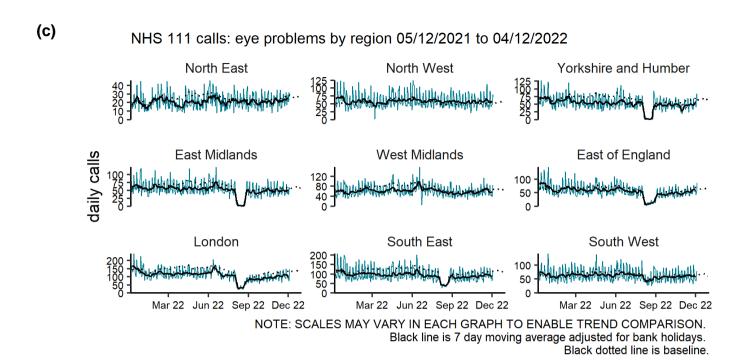
Eye problems NHS 111 calls

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.



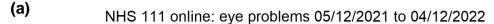
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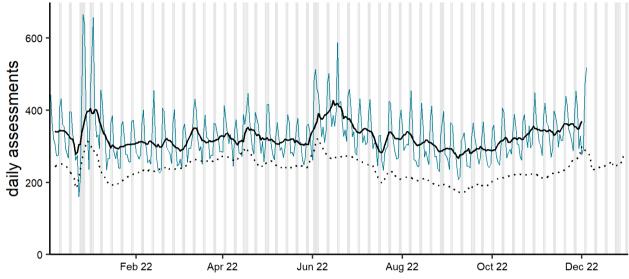




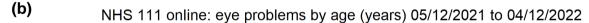
Eye problems NHS 111 online

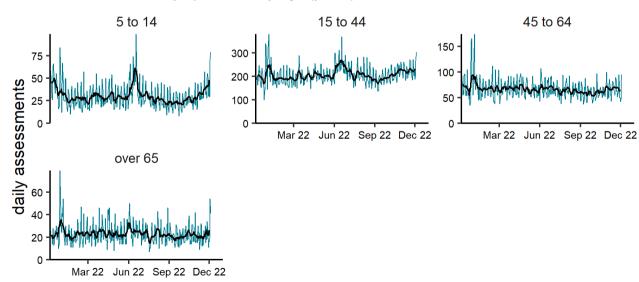
Figure 20: Daily number of completed NHS 111 online assessments (and 7-day moving average adjusted for bank holidays) for eye problems, England (a) nationally, (b) by age and (c) by UKHSA Region.





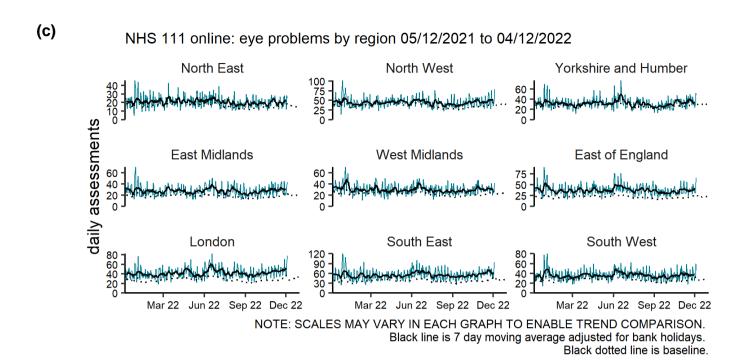
Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.





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':
 - 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 2021
- o 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
 - 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.

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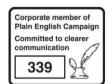
Prepared by: Real-time Syndromic Surveillance Team

For queries relating to this document, please contact: syndromic.surveillan@ukhsa.gov.uk

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