



UK Health
Security
Agency

Remote Health Advice Syndromic Surveillance System Bulletin (England) 2024 Week 10

Key messages

Data reported to: 10 March

During week 10, selected NHS 111 respiratory syndromic indicators (including cough, difficulty breathing and 'potential COVID-19') remained stable or showed an increase in activity, particularly in children aged 1-4 and 5-14 years.

Please note that a further update to the NHS Pathways clinical system used by NHS 111 has affected NHS 111 cold/flu calls, particularly calls in children and selected regions. Cold/flu call data presented in this report should therefore currently be interpreted with caution. Please see '[Notes and Caveats](#)' for further information.

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)	No trend	No baseline
Total NHS 111 online (Figure 2)	No trend	No baseline
Cold/flu NHS 111 calls (Figure 3)	Increasing ²	Below baseline
Cold/flu NHS 111 online (Figure 4)	No trend	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	Below baseline
Cough NHS 111 online (Figure 8)	Increasing	Above baseline
Difficulty breathing NHS 111 online (Figure 9)	No trend	Above baseline
Sore throat NHS 111 calls (Figure 10)	Increasing	Below baseline
Sore throat NHS 111 online (Figure 11)	No trend	Above baseline
Potential COVID-19 NHS 111 calls (Figure 12)	No trend	No baseline
Potential COVID-19 NHS 111 online (Figure 13)	Increasing	No baseline
Diarrhoea NHS 111 calls (Figure 14)	No trend	Similar to baseline
Diarrhoea NHS 111 online (Figure 15)	No trend	Above baseline
Vomiting NHS 111 calls (Figure 16)	Decreasing	Below baseline
Vomiting NHS 111 online (Figure 17)	Increasing	Similar to baseline
Eye problems NHS 111 calls (Figure 18)	Decreasing	Similar to baseline
Eye problems NHS 111 online (Figure 19)	Decreasing	Similar to baseline

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

² see data [Notes and Caveats](#) for information about changes to cold/flu calls

Contents

Key messages	2
Syndromic indicators at a glance.....	2
Contents.....	3
About this syndromic surveillance system.....	5
Total contacts.....	6
NHS 111 calls.....	6
NHS 111 online	8
Respiratory conditions.....	10
Cold/flu NHS 111 calls.....	10
Cold/flu NHS 111 online	12
Fever NHS 111 calls.....	14
Fever NHS 111 online	16
Cough NHS 111 calls	18
Cough NHS 111 online.....	20
Difficulty breathing NHS 111 online	22
Sore throat NHS 111 calls	24
Sore throat NHS 111 online.....	26
Potential COVID-19 NHS 111 calls	28
Potential COVID-19 NHS 111 online	30
Gastrointestinal conditions	32
Diarrhoea NHS 111 calls	32
Diarrhoea NHS 111 online.....	34
Vomiting NHS 111 calls.....	36
Vomiting NHS 111 online	38
Seasonal environmental conditions	40
Eye problems NHS 111 calls.....	41
Eye problems NHS 111 online	43
Notes and caveats	45
COVID-19 syndromic surveillance.....	46

Acknowledgements	47
About the UK Health Security Agency	48

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 Symptom Group or Pathway) identified from both NHS 111 calls and NHS 111 online assessments respectively
 - the potential COVID-19 syndromic indicator is based on the Symptom Group in NHS 111 calls and the outcome (known as the Disposition), in NHS 111 online (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

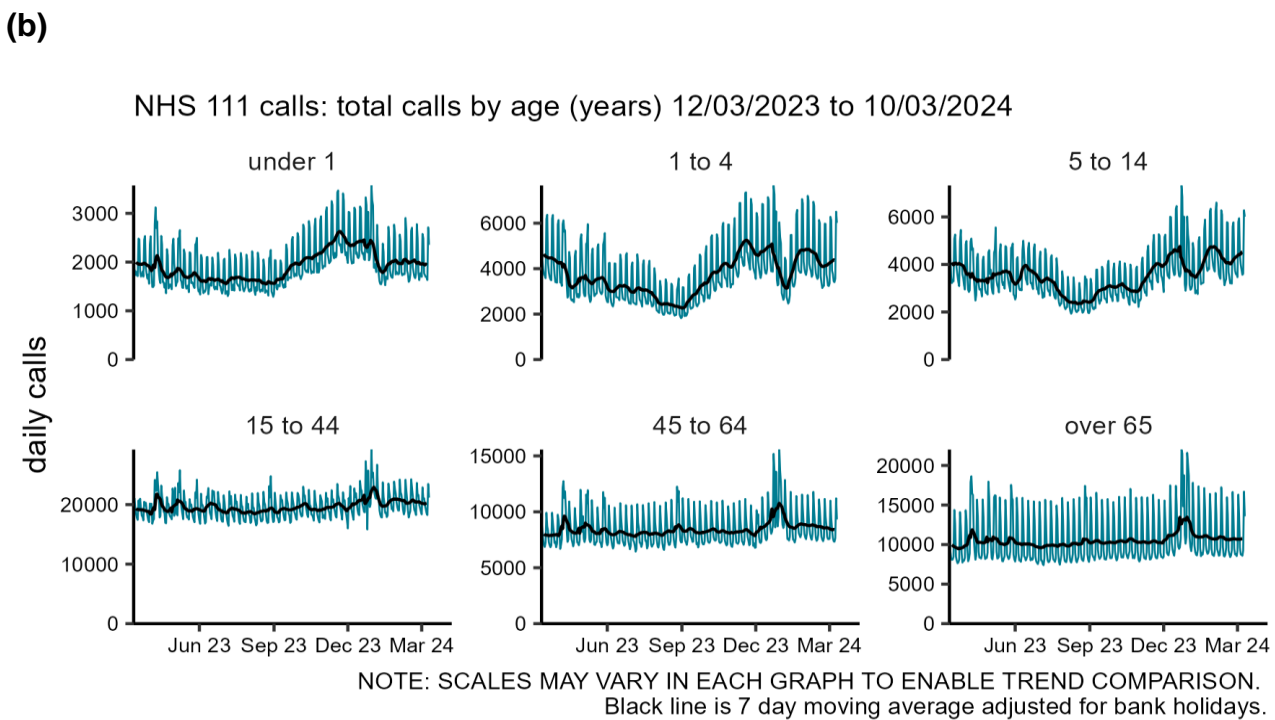
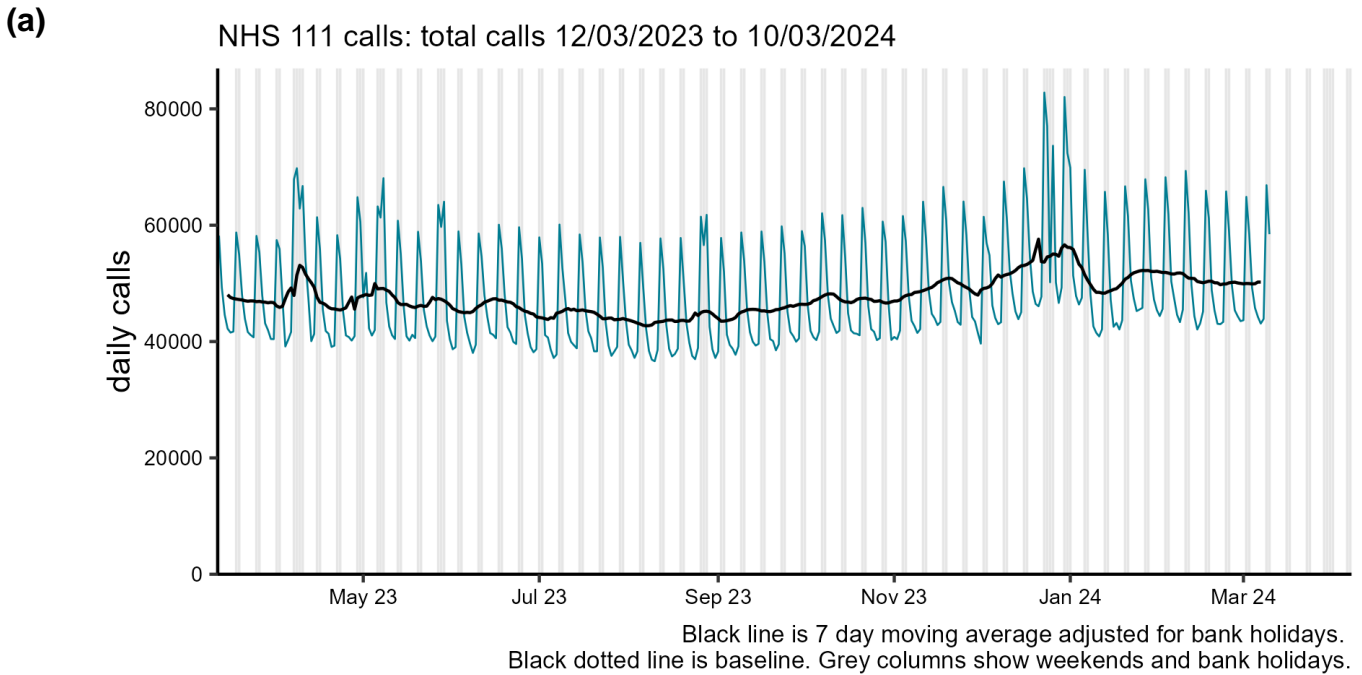
Please see the [Notes and Caveats](#) section about the current impact of newly released NHS Pathways system updates (NHS Pathways Release 41 and 42) on syndromic data reporting.

Due to a technical problem at a single NHS 111 call provider, which is affecting call numbers particularly in the West Midlands, calls from this provider have been temporarily excluded from this bulletin and will be re-instated when the technical problem has been resolved.

Total contacts

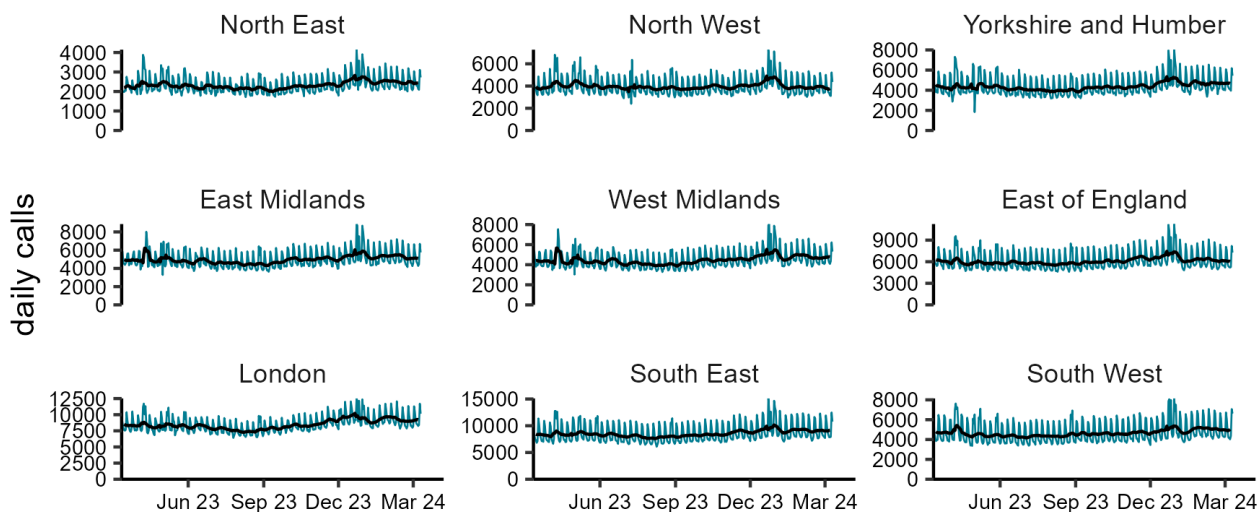
NHS 111 calls

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.



(c)

NHS 111 calls: total calls by UKHSA region 12/03/2023 to 10/03/2024



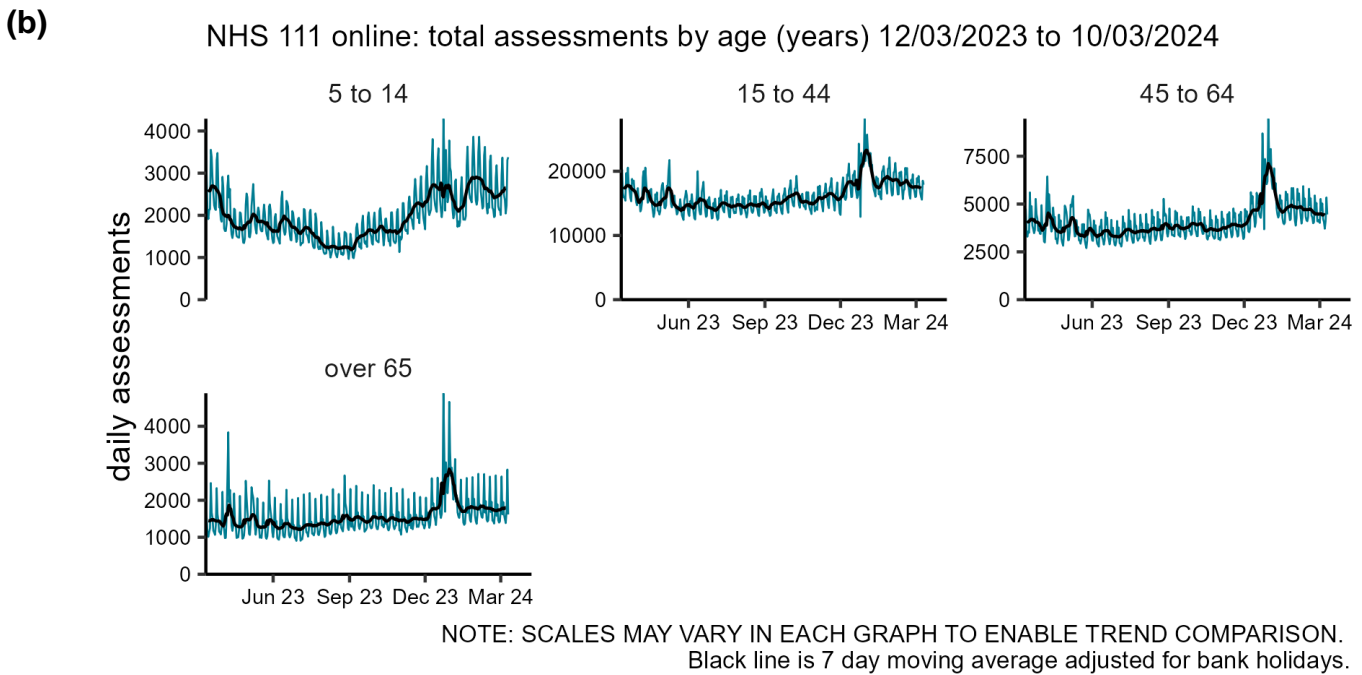
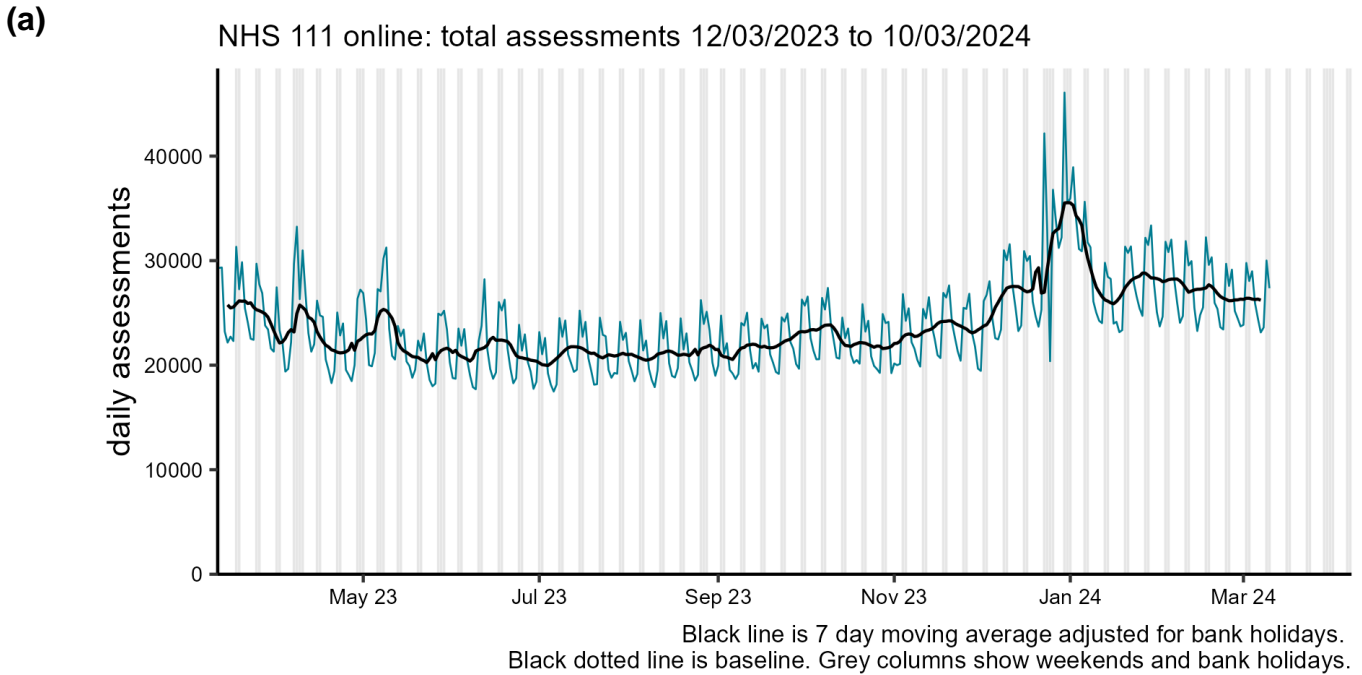
NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON.
 Black line is 7 day moving average adjusted for bank holidays.
 Black dotted line is baseline.

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

Date	Number of calls
04 March 2024	50,242
05 March 2024	46,659
06 March 2024	45,164
07 March 2024	43,903
08 March 2024	44,740
09 March 2024	68,290
10 March 2024	59,702

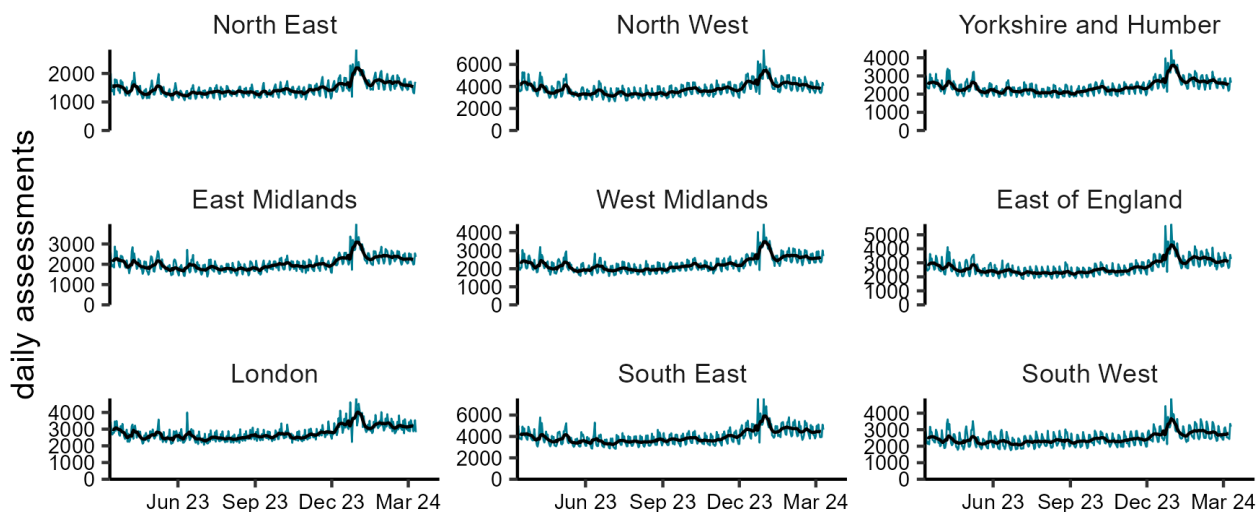
NHS 111 online

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.



(c)

NHS 111 online: total assessments by UKHSA region 12/03/2023 to 10/03/2024



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

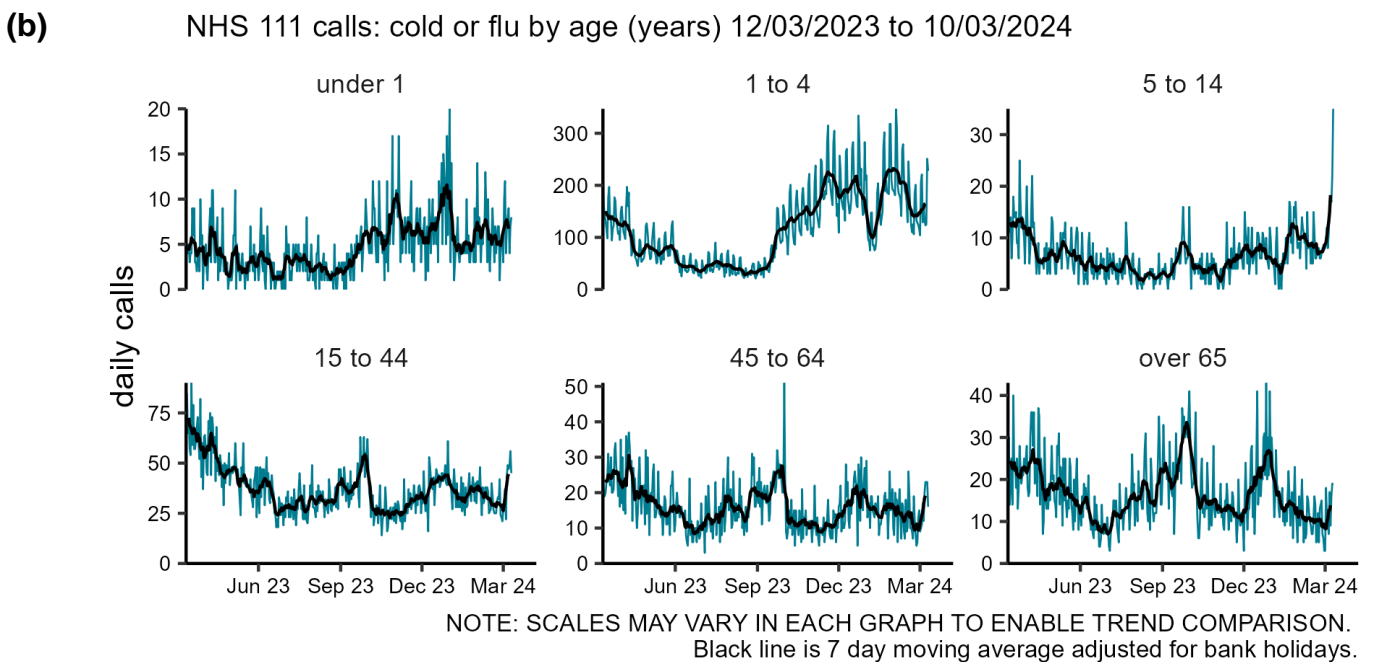
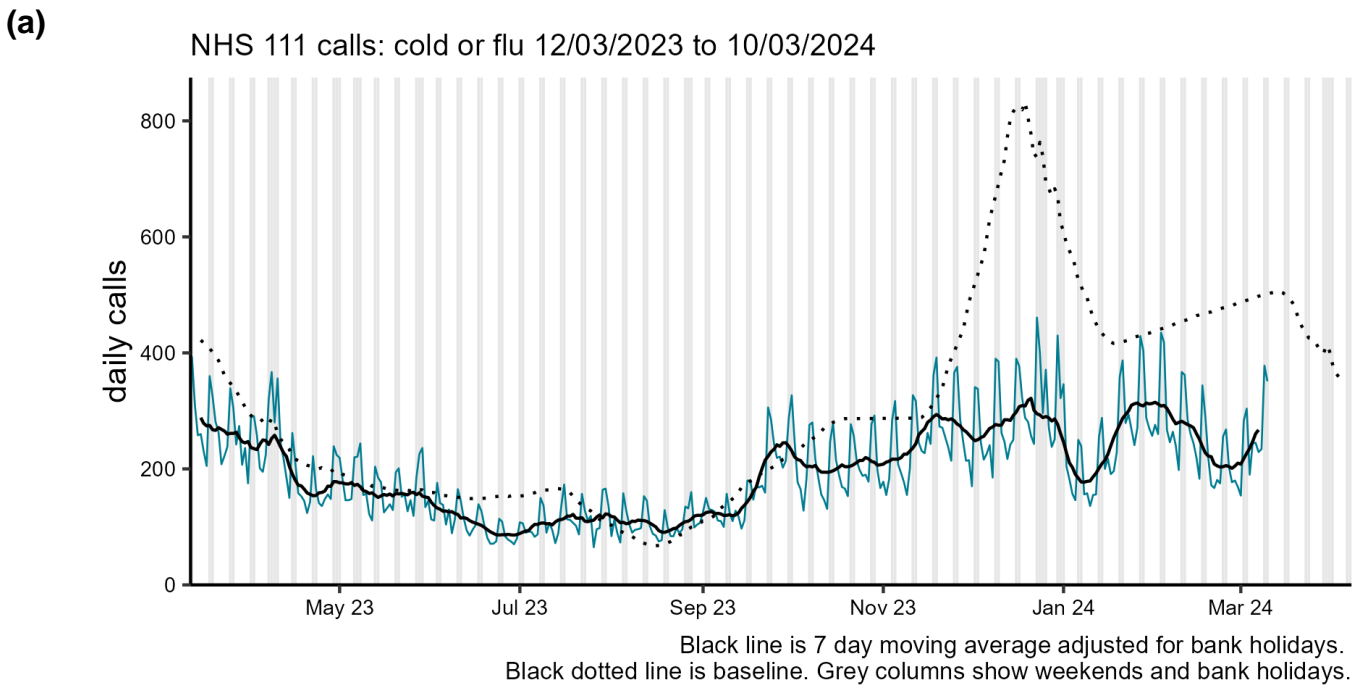
Table 3: The number of completed NHS 111 online assessments in England recorded each day in the most recent week.

Date	Number of completed assessments
04 March 2024	27,607
05 March 2024	24,643
06 March 2024	23,224
07 March 2024	21,903
08 March 2024	22,537
09 March 2024	28,582
10 March 2024	25,689

Respiratory conditions

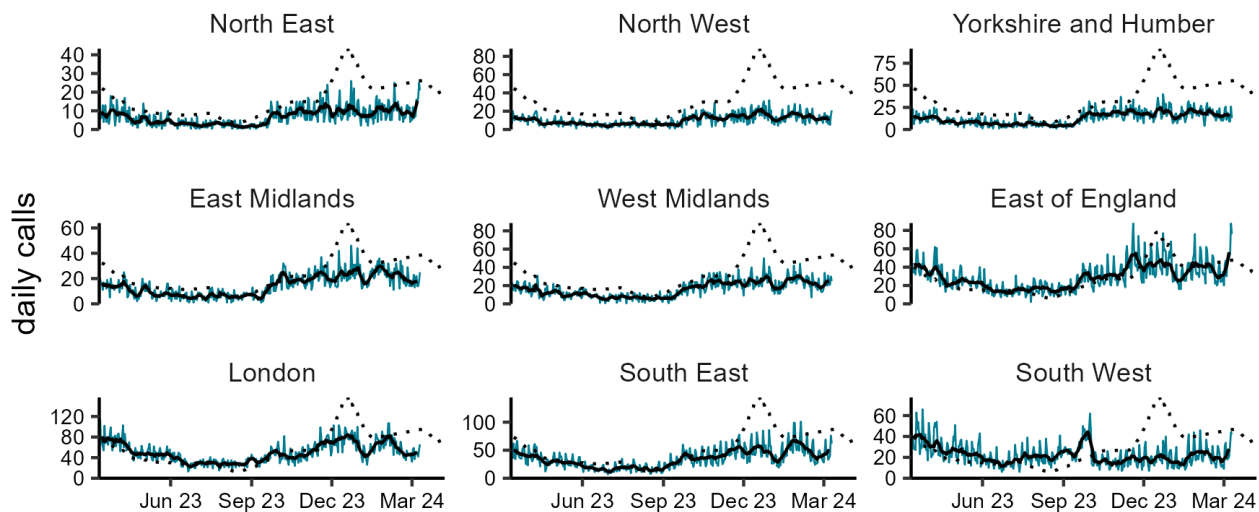
Cold/flu NHS 111 calls

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.



(c)

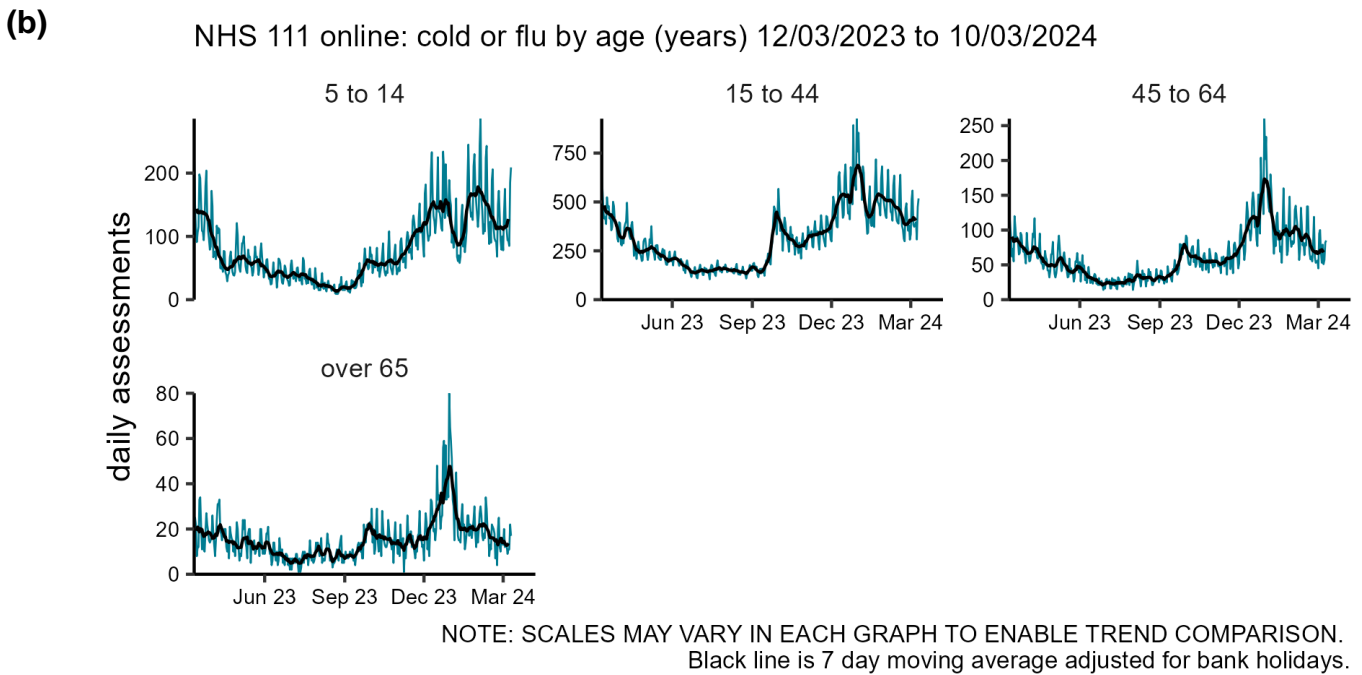
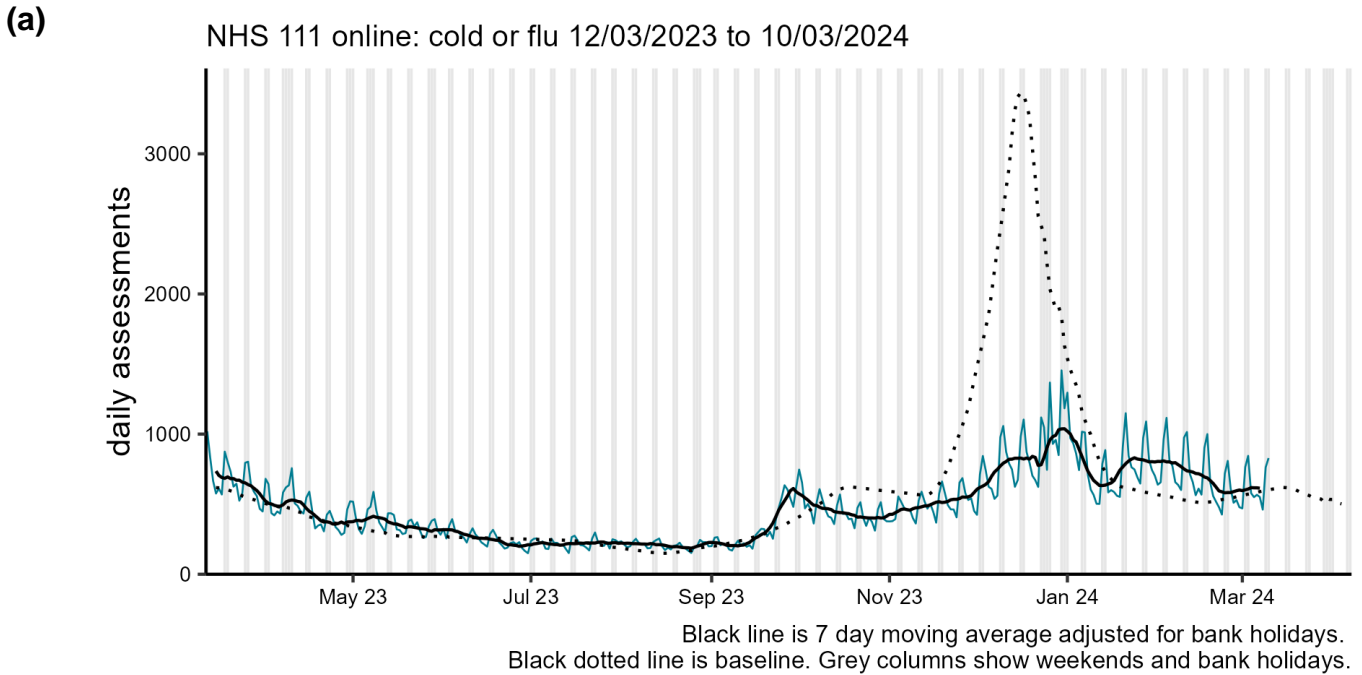
NHS 111 calls: cold or flu by UKHSA region 12/03/2023 to 10/03/2024



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

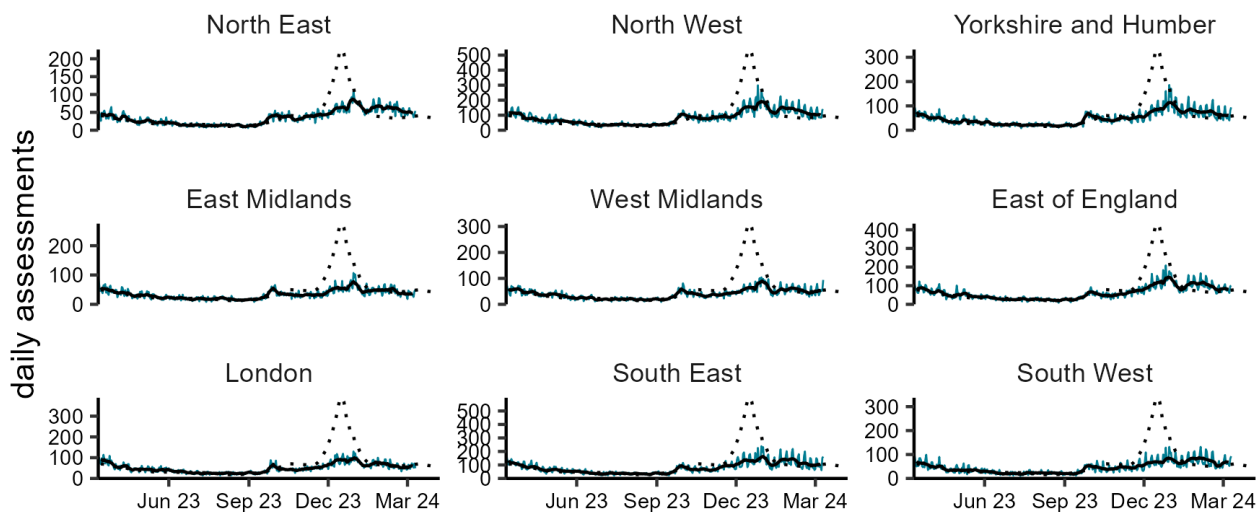
Cold/flu NHS 111 online

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.



(c)

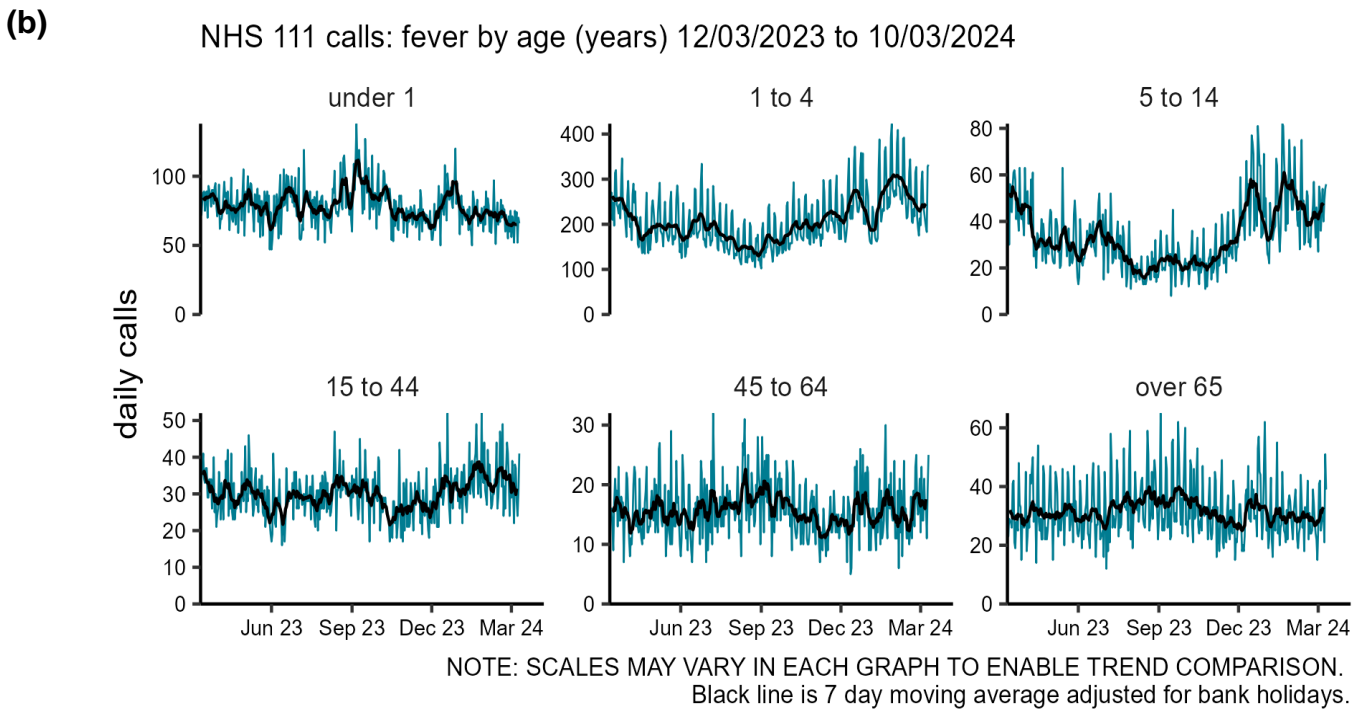
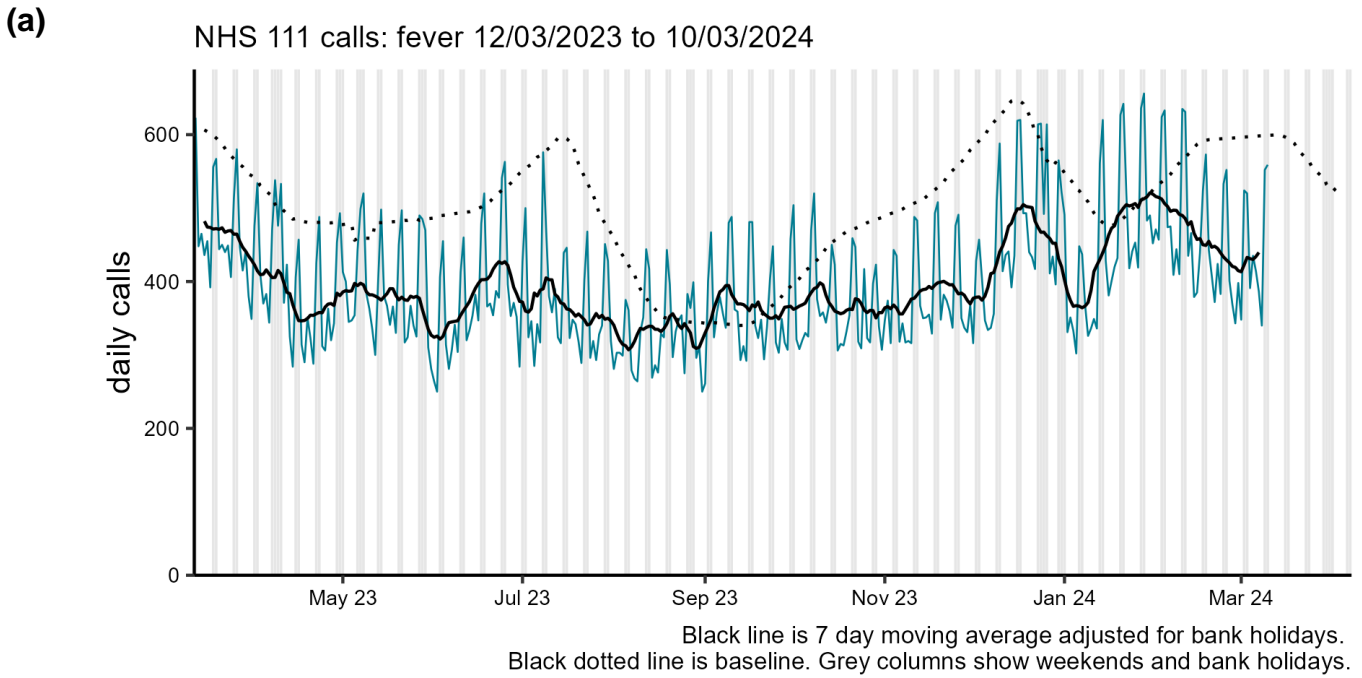
NHS 111 online: cold or flu by UKHSA region 12/03/2023 to 10/03/2024



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

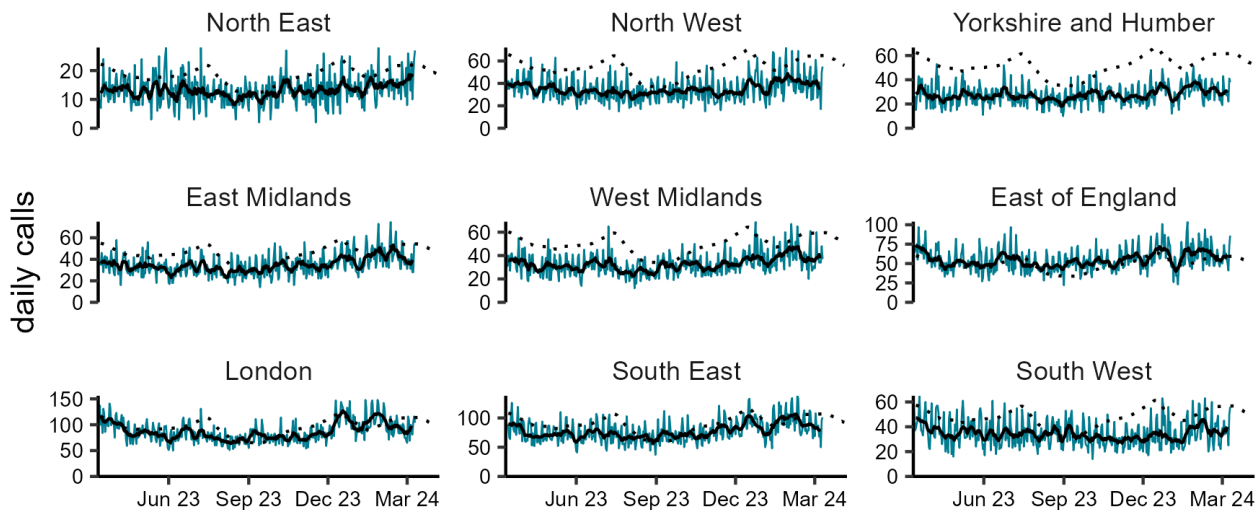
Fever NHS 111 calls

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.



(c)

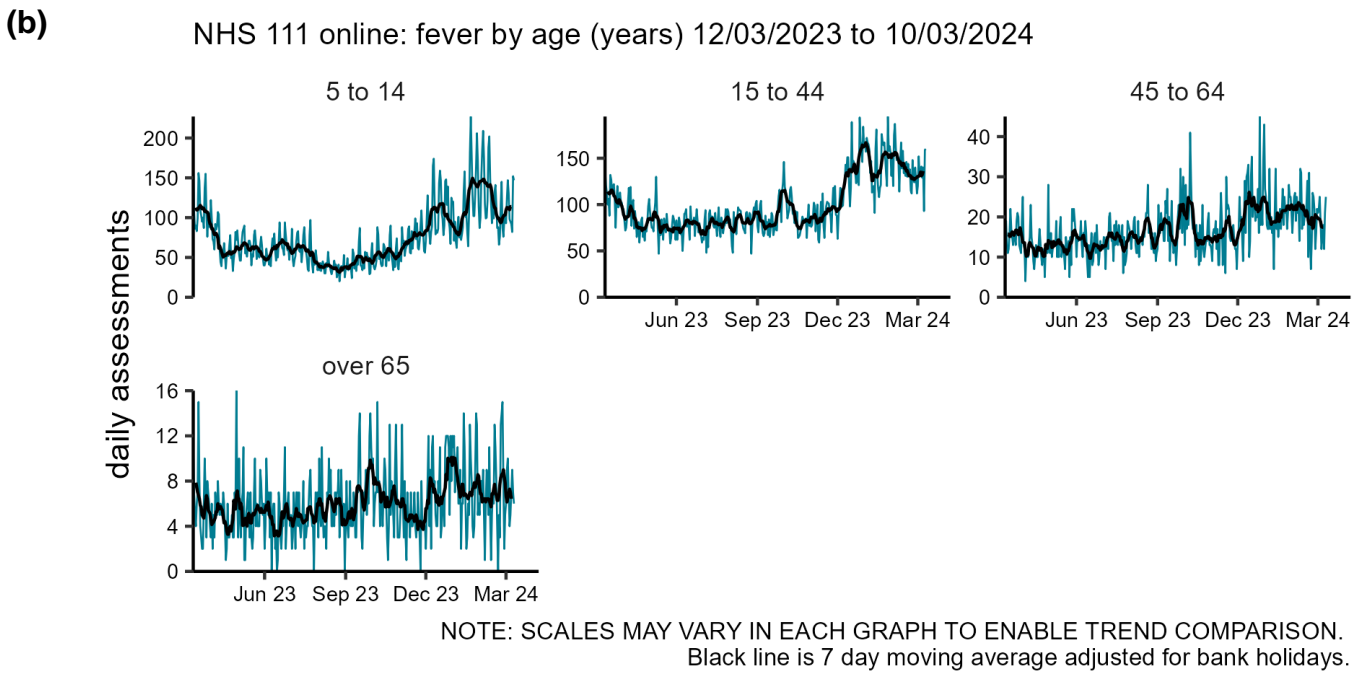
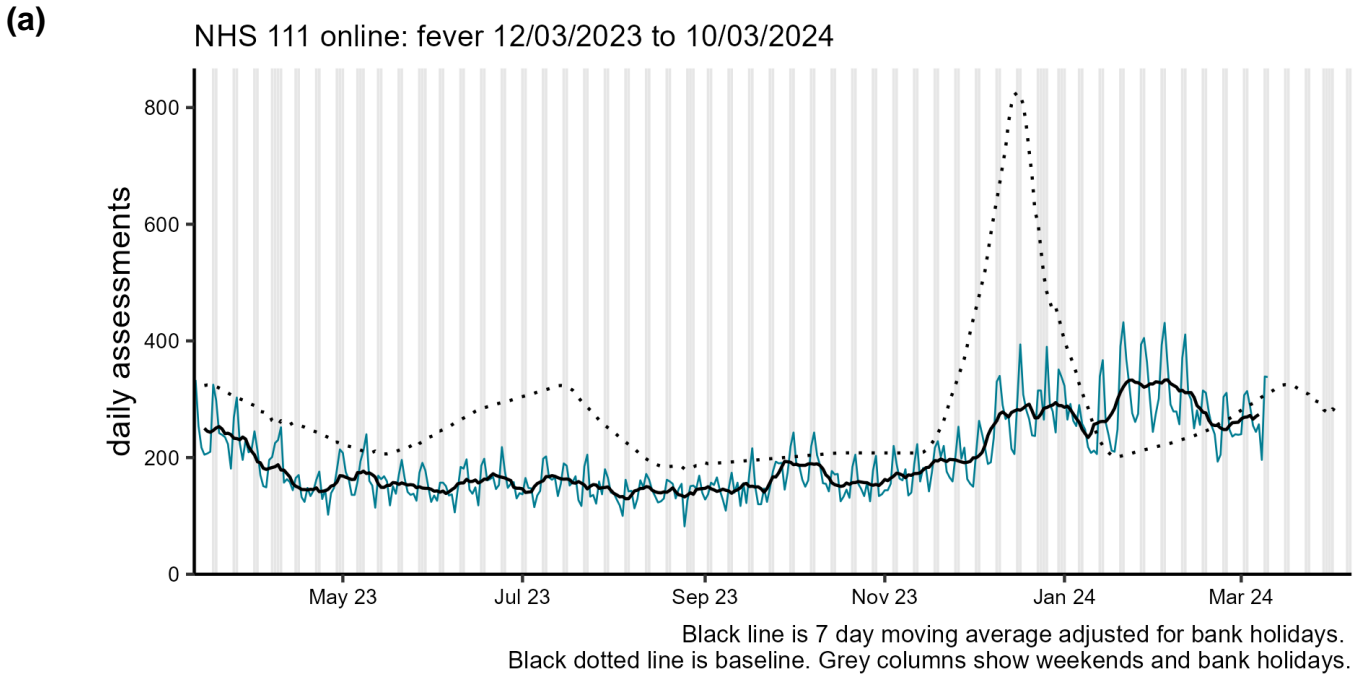
NHS 111 calls: fever by UKHSA region 12/03/2023 to 10/03/2024



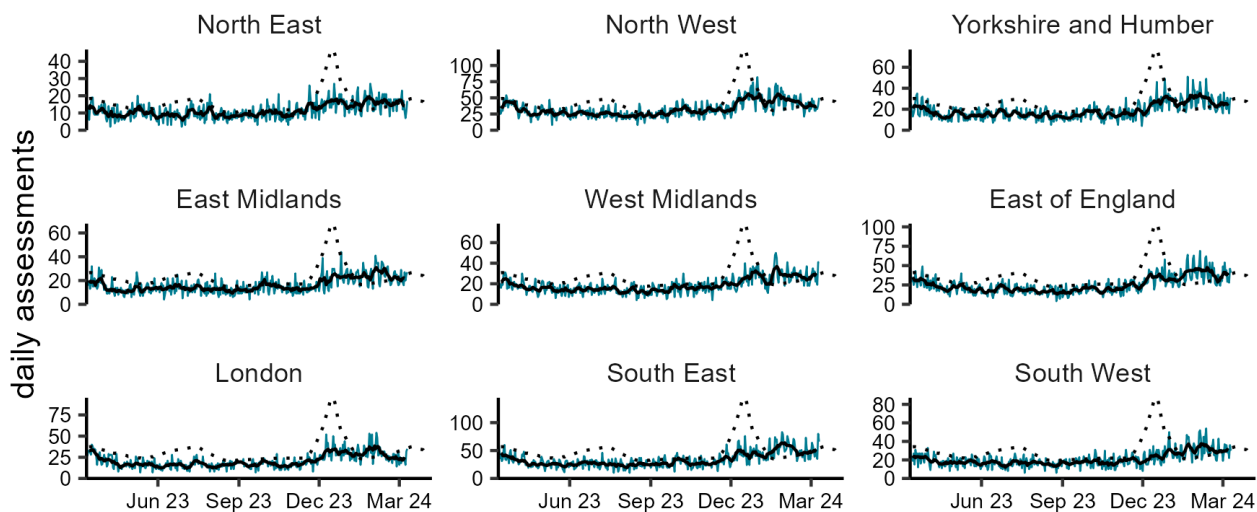
NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON.
Black line is 7 day moving average adjusted for bank holidays.
Black dotted line is baseline.

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.



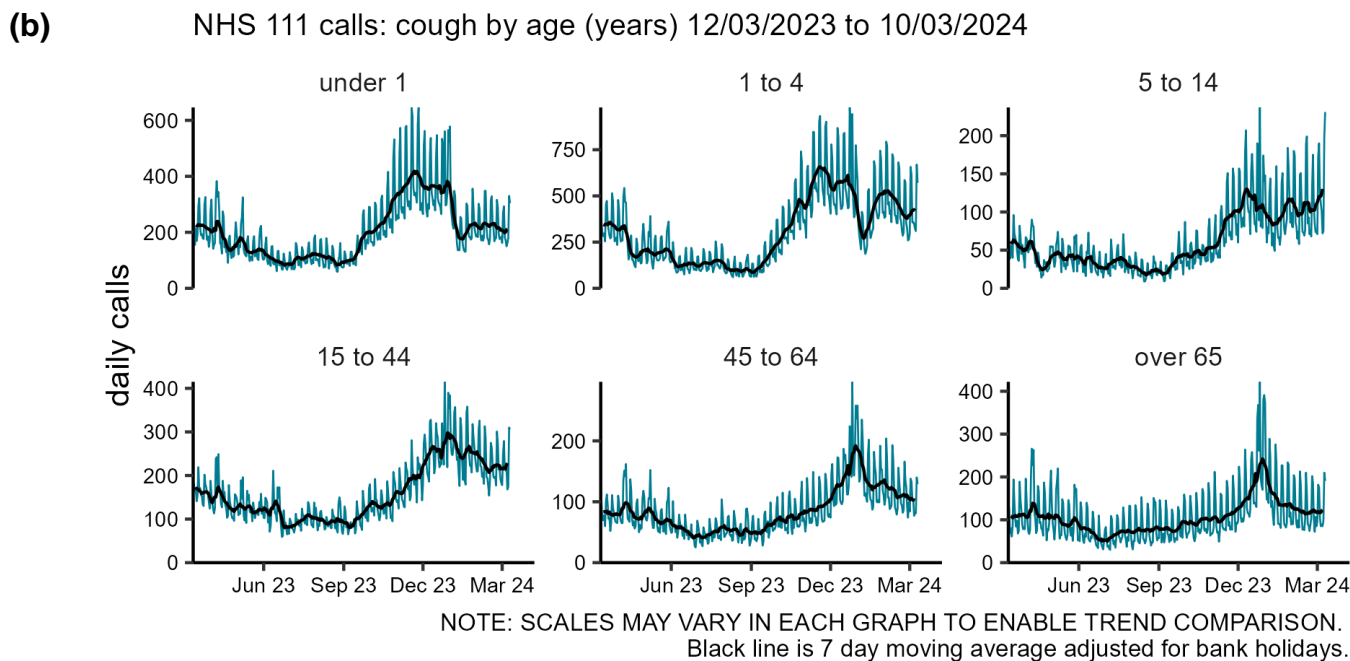
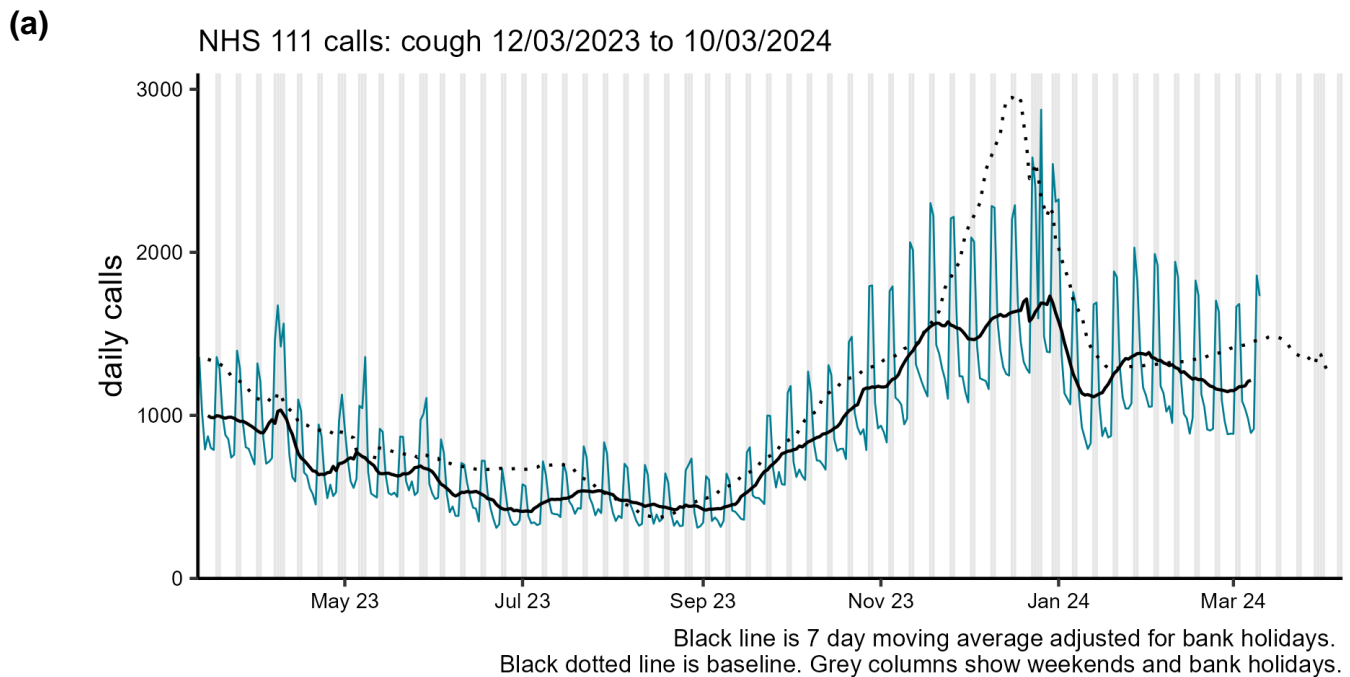
(c) NHS 111 online: fever by UKHSA region 12/03/2023 to 10/03/2024



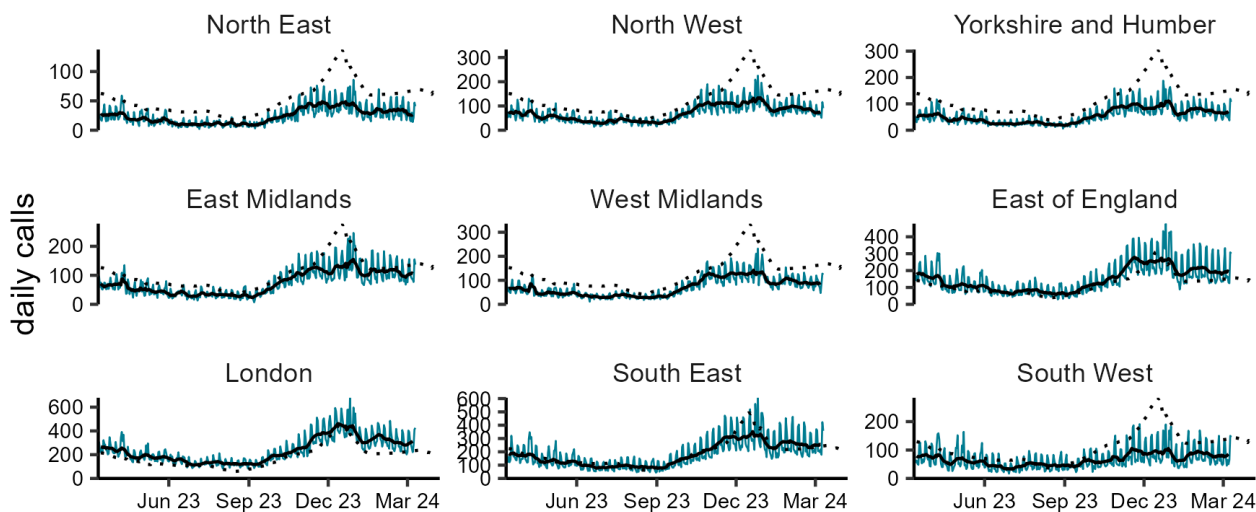
NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON.
Black line is 7 day moving average adjusted for bank holidays.
Black dotted line is baseline.

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.



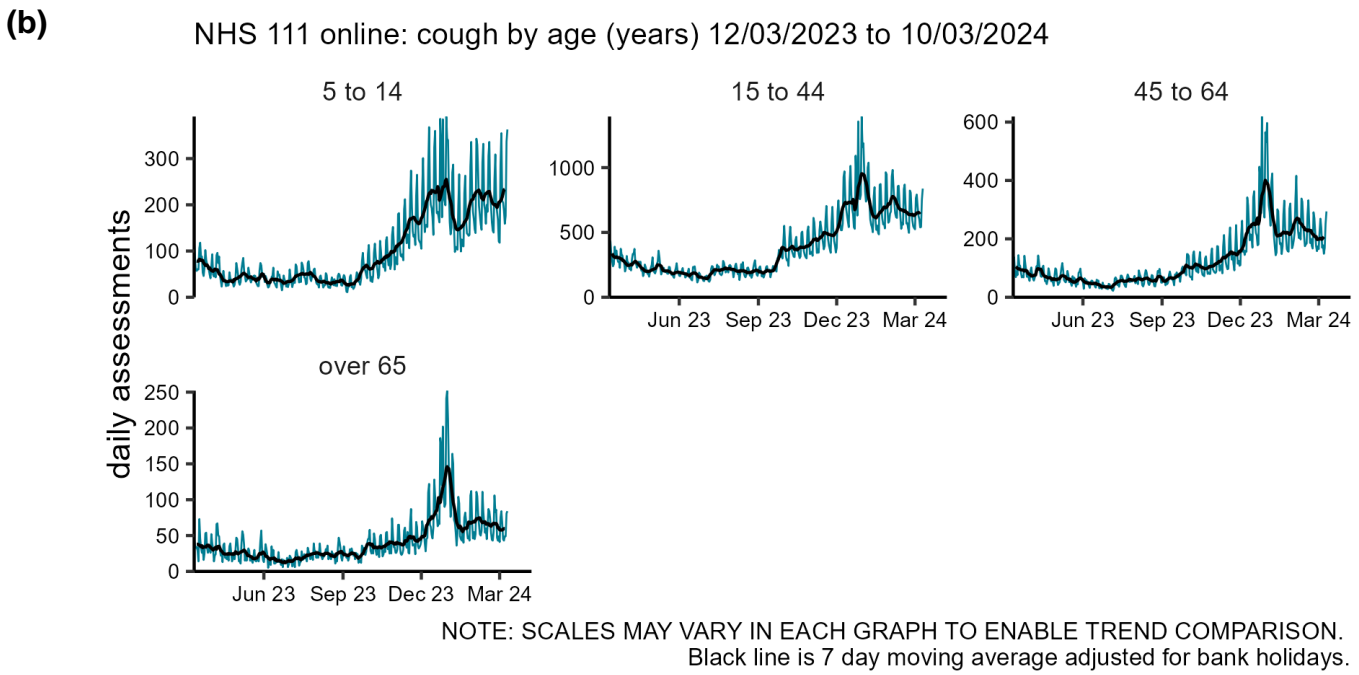
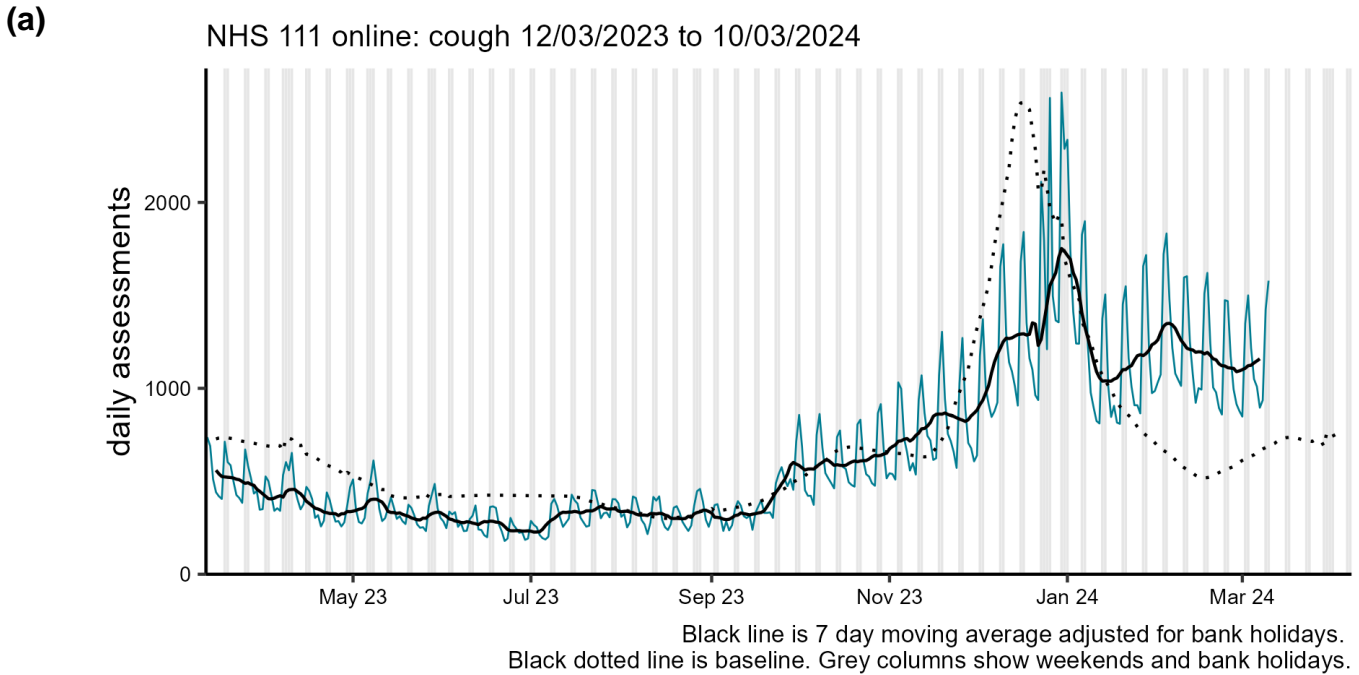
(c) NHS 111 calls: cough by UKHSA region 12/03/2023 to 10/03/2024



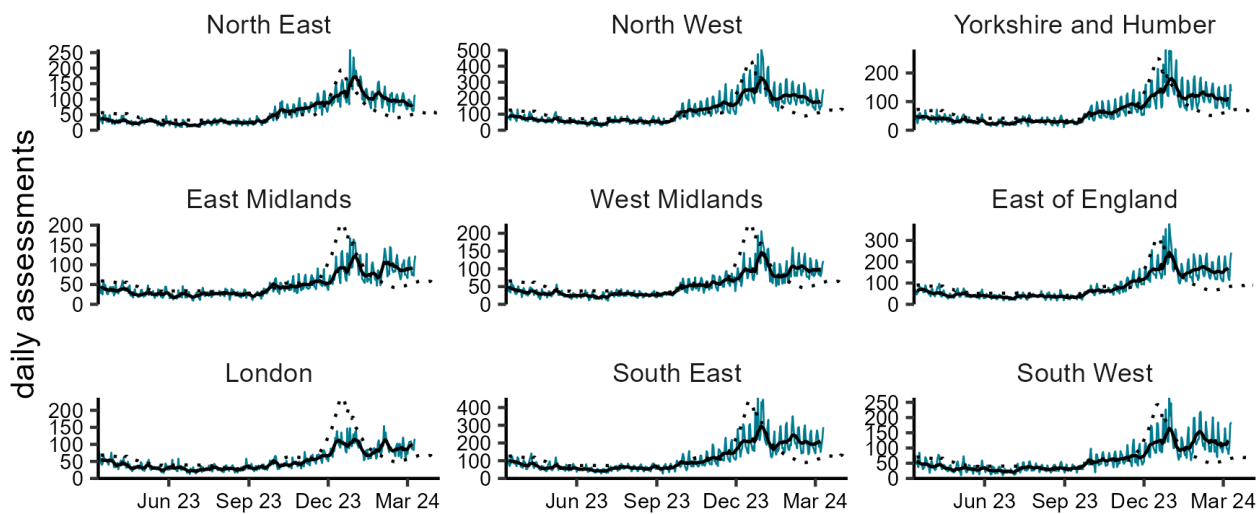
NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON.
Black line is 7 day moving average adjusted for bank holidays.
Black dotted line is baseline.

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.



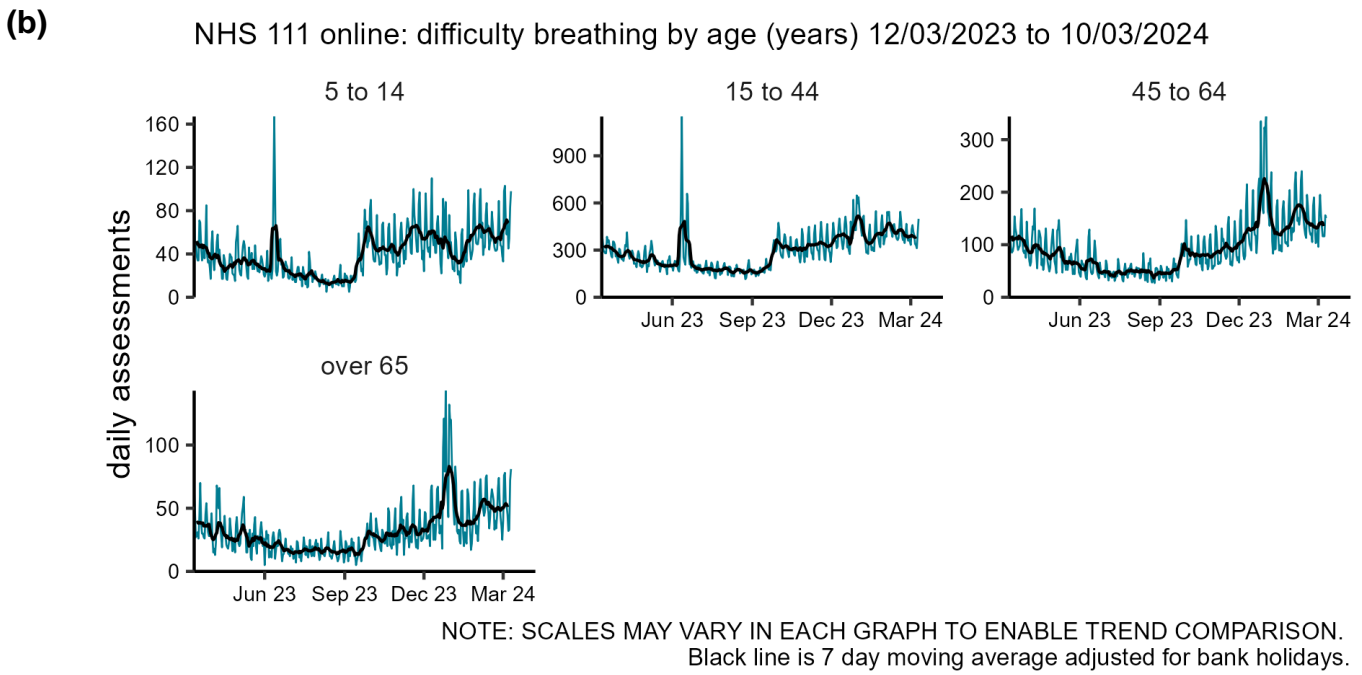
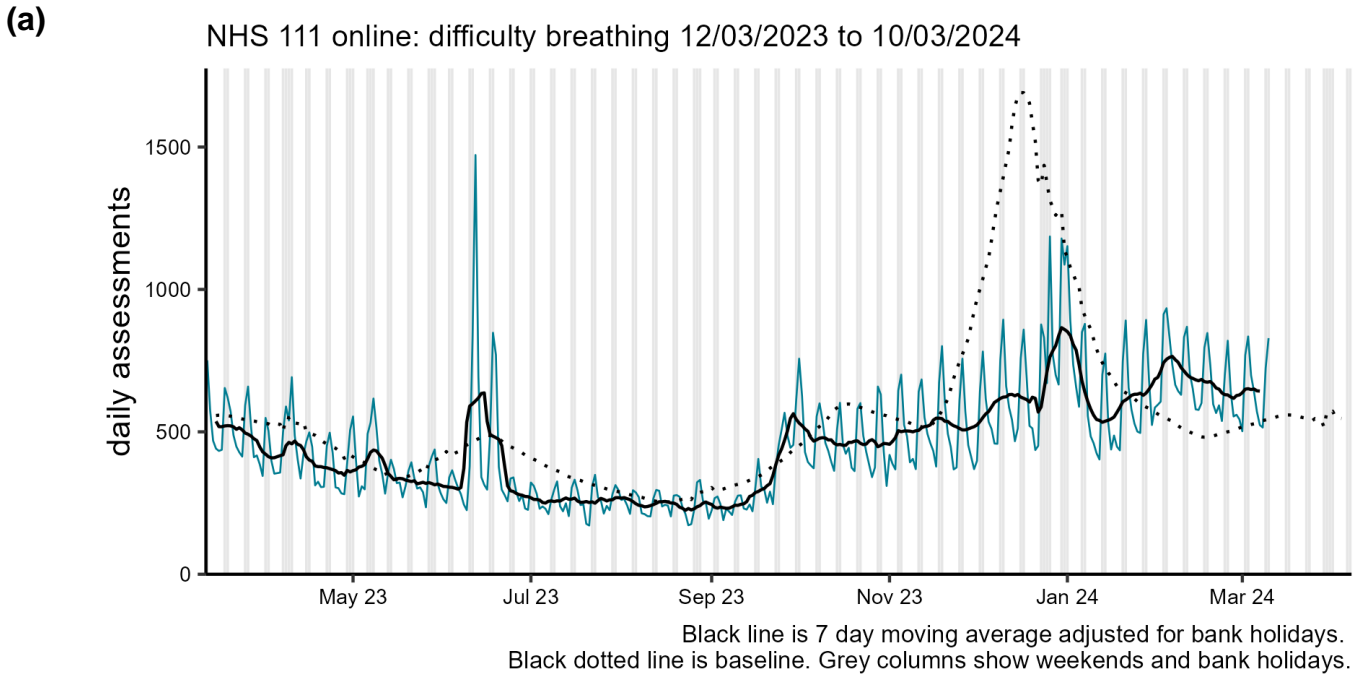
(c) NHS 111 online: cough by UKHSA region 12/03/2023 to 10/03/2024



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

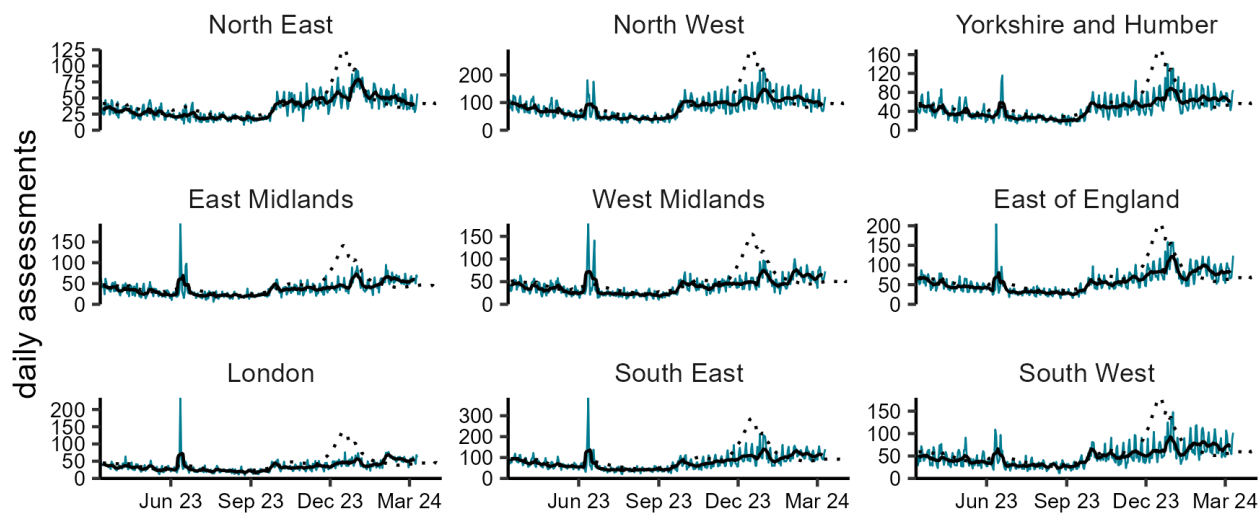
Difficulty breathing NHS 111 online

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



(c)

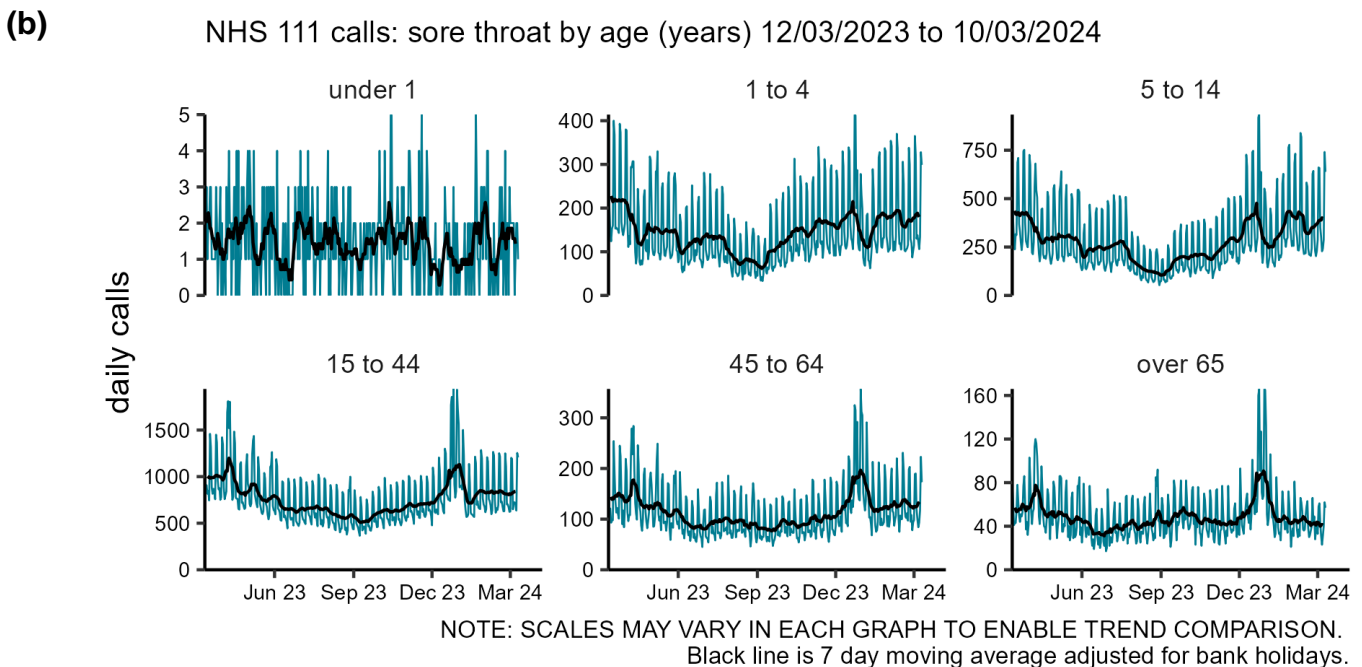
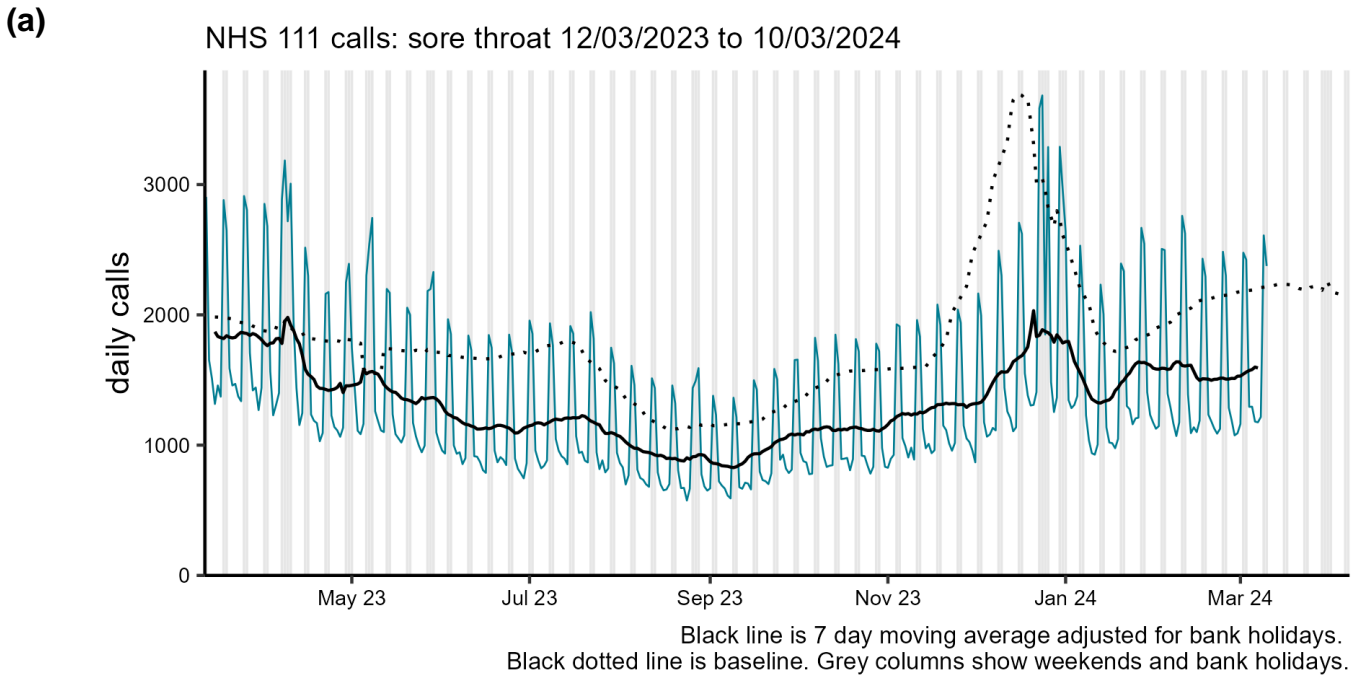
NHS 111 online: difficulty breathing by UKHSA region 12/03/2023 to 10/03/2024



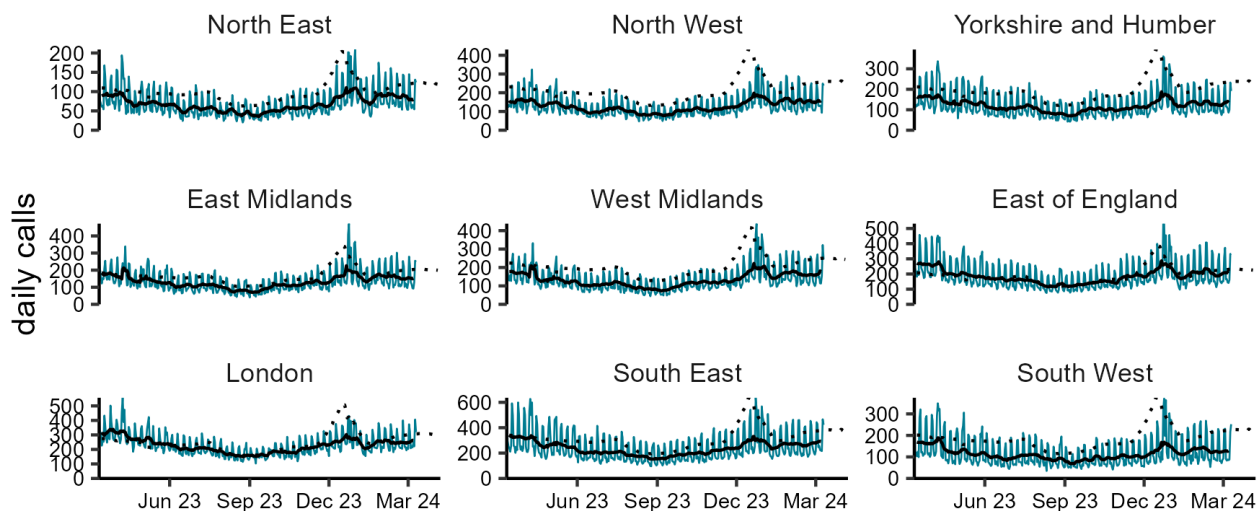
NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON.
Black line is 7 day moving average adjusted for bank holidays.
Black dotted line is baseline.

Sore throat NHS 111 calls

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



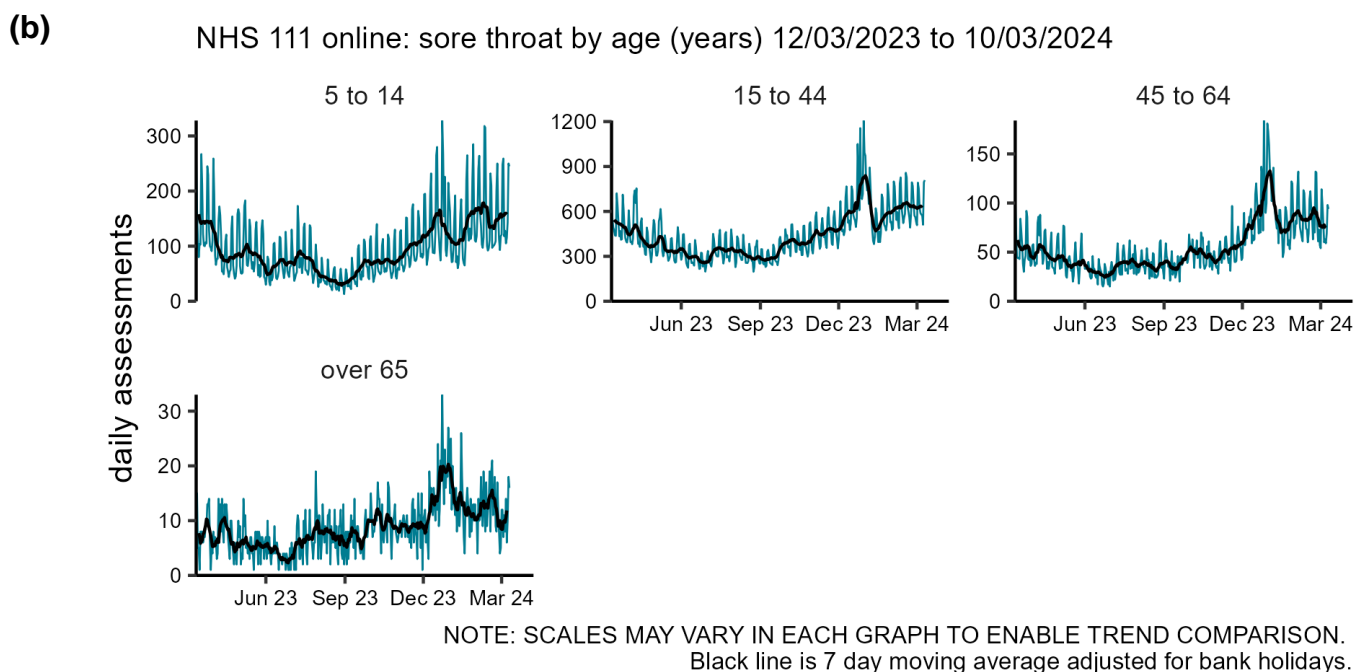
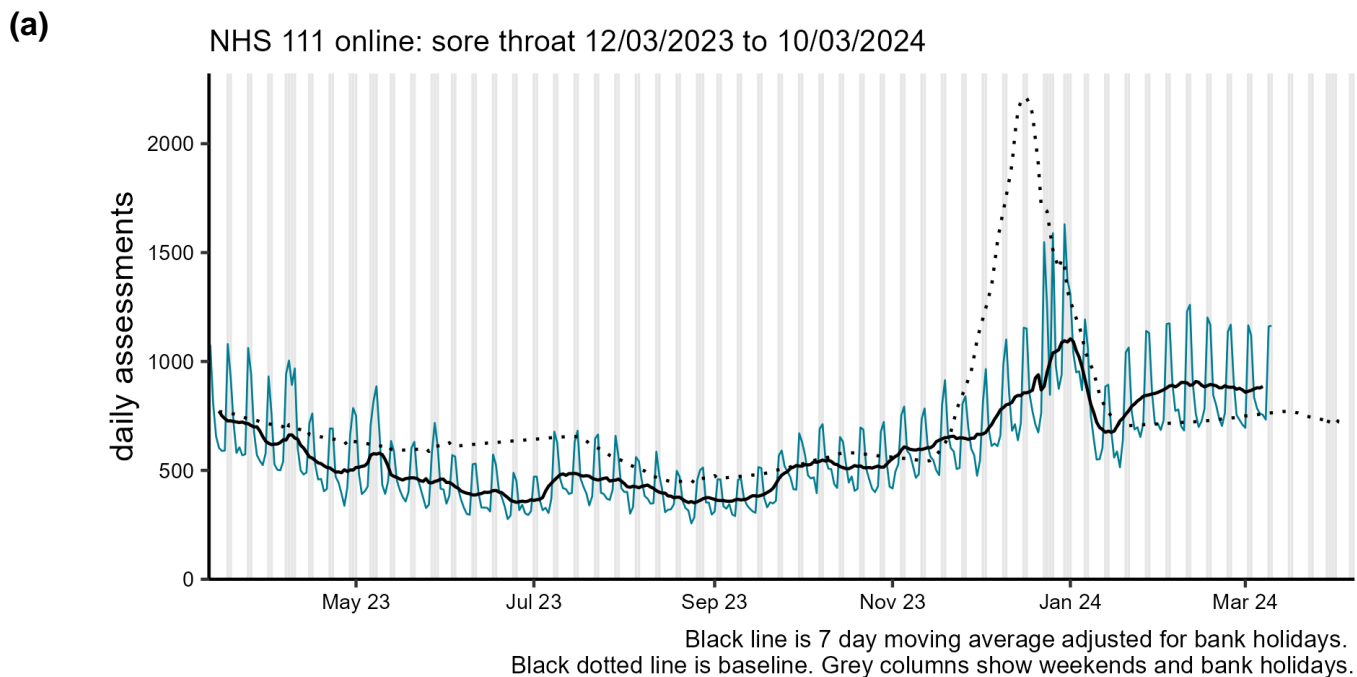
(c) NHS 111 calls: sore throat by UKHSA region 12/03/2023 to 10/03/2024



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

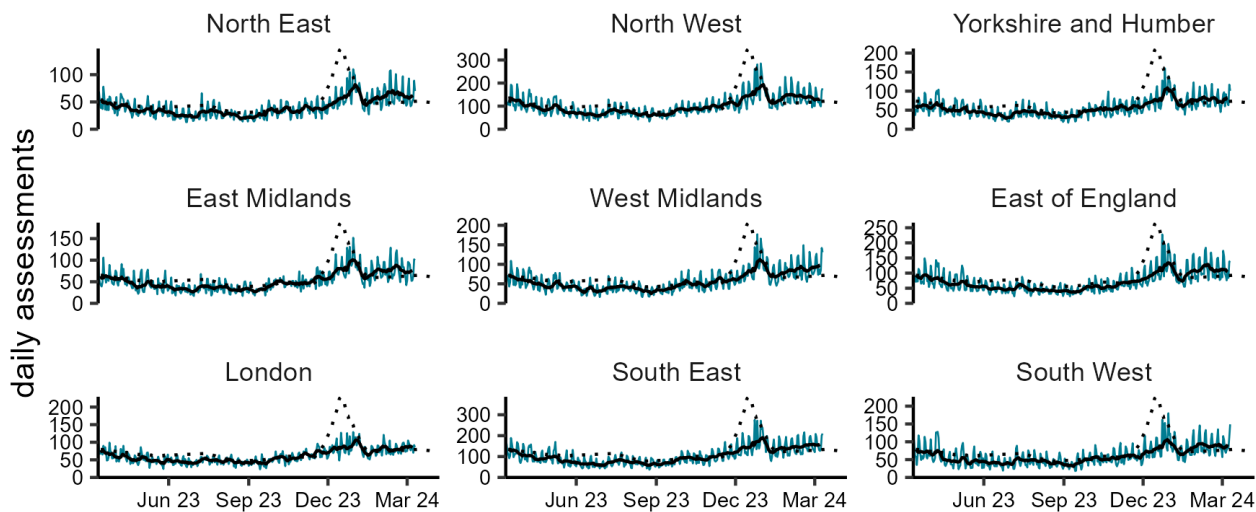
Sore throat NHS 111 online

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



(c)

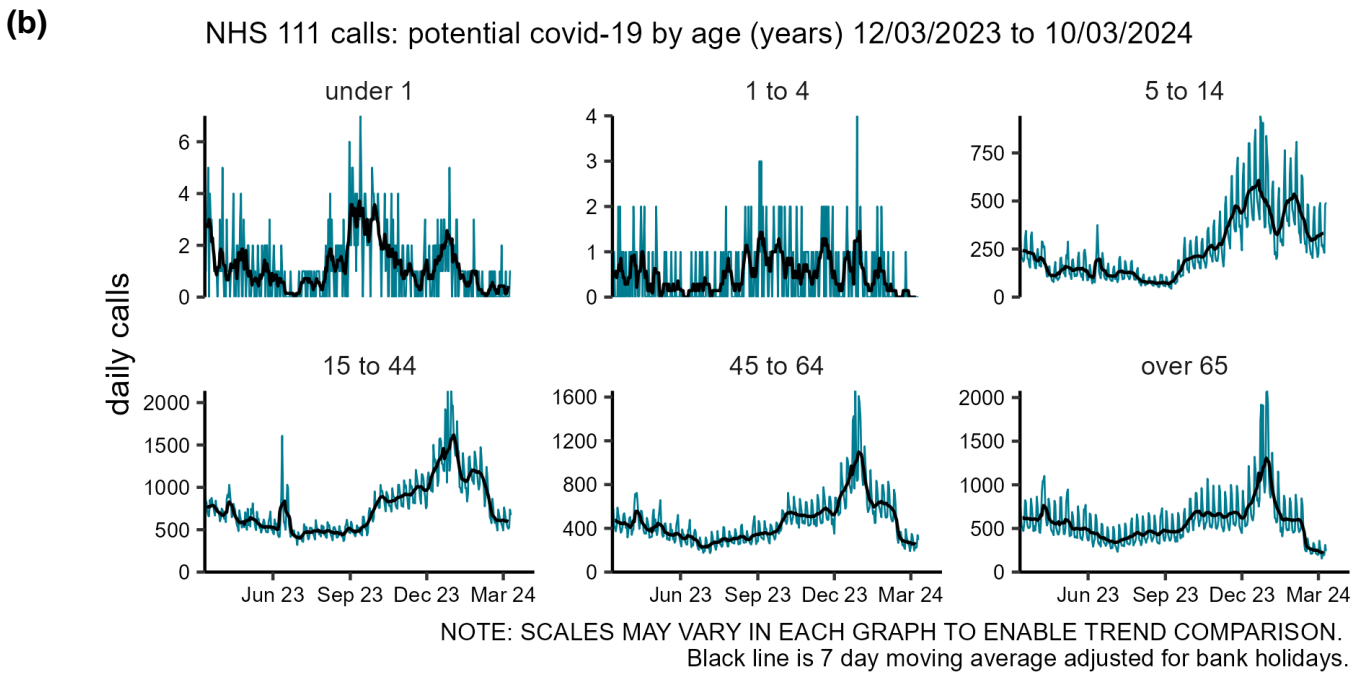
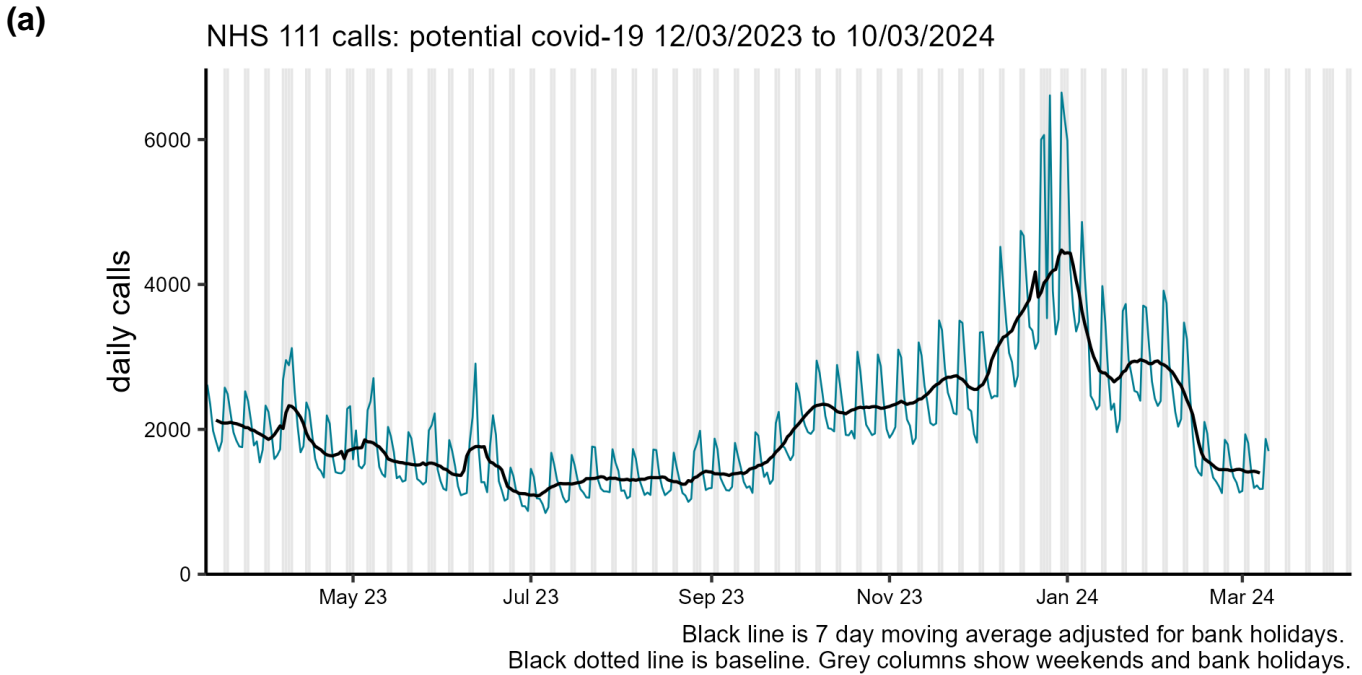
NHS 111 online: sore throat by UKHSA region 12/03/2023 to 10/03/2024



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

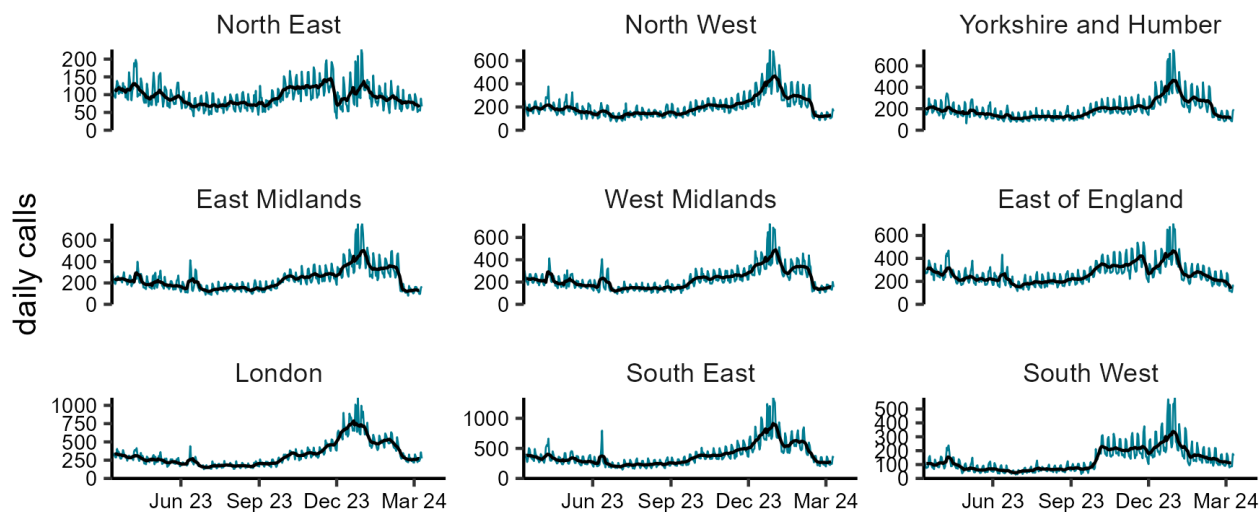
Potential COVID-19 NHS 111 calls

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



(c)

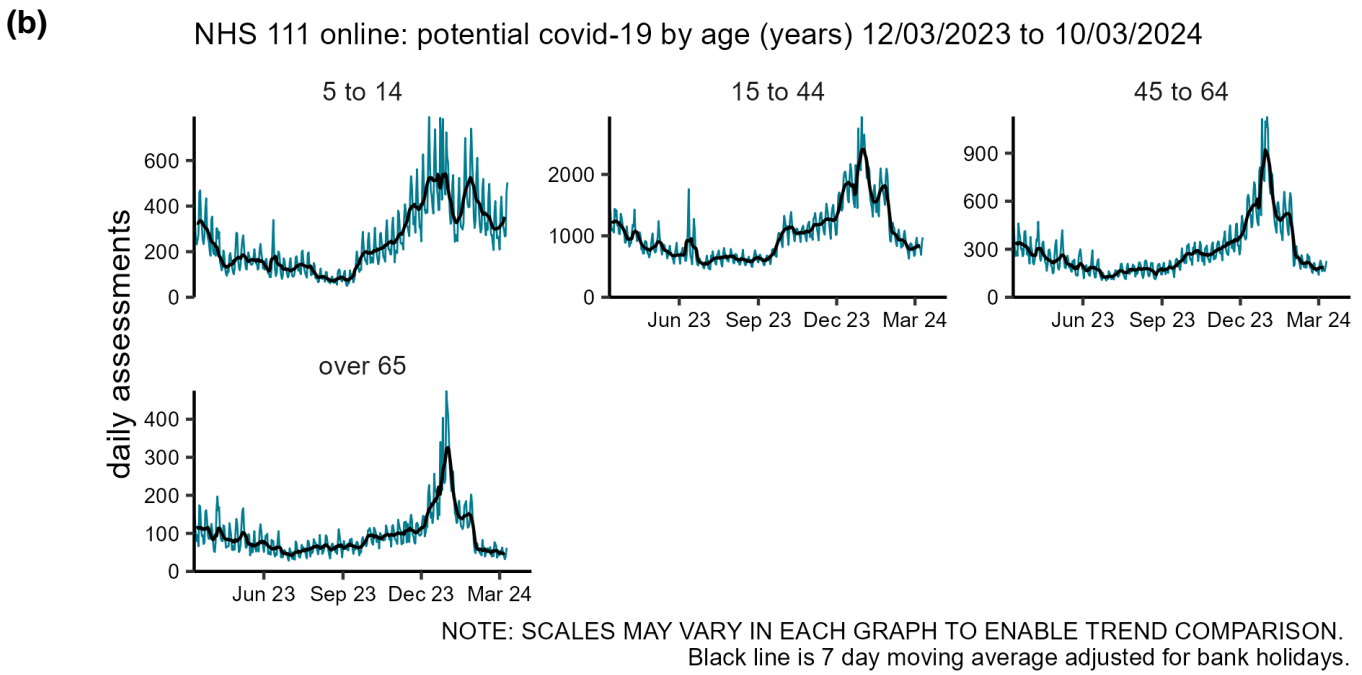
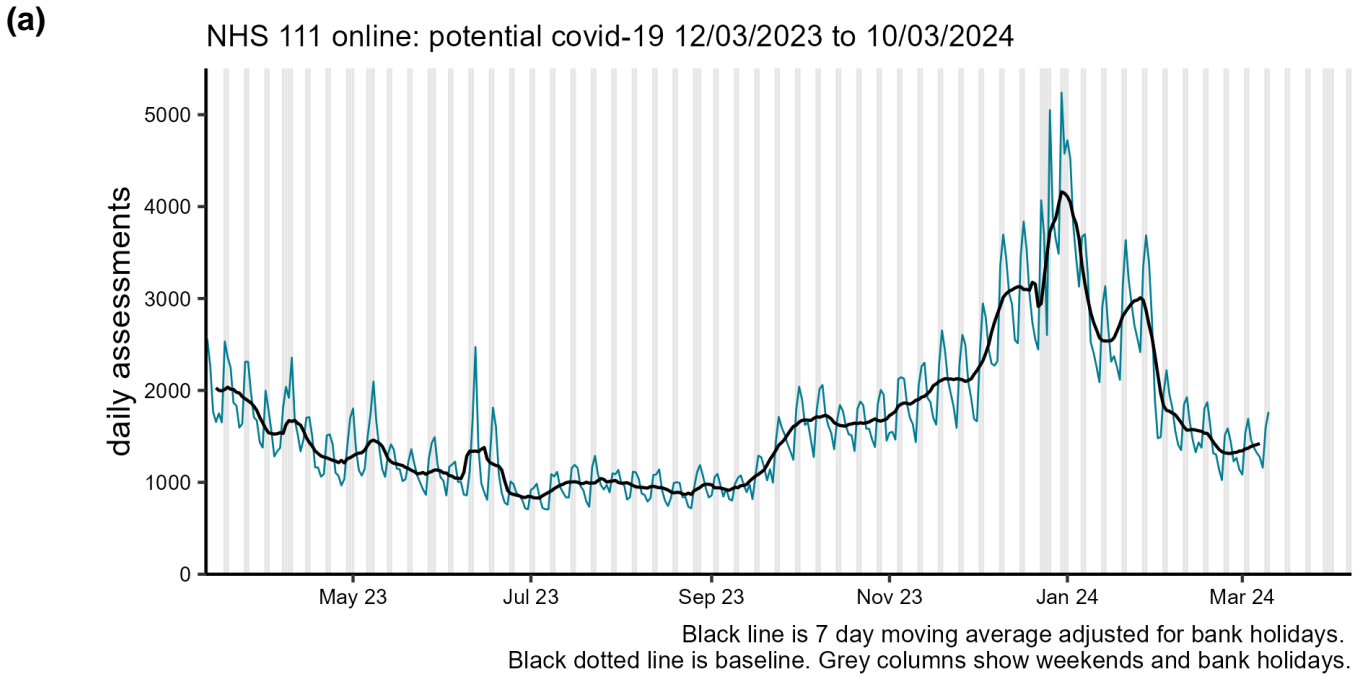
NHS 111 calls: potential covid-19 by UKHSA region 12/03/2023 to 10/03/2024



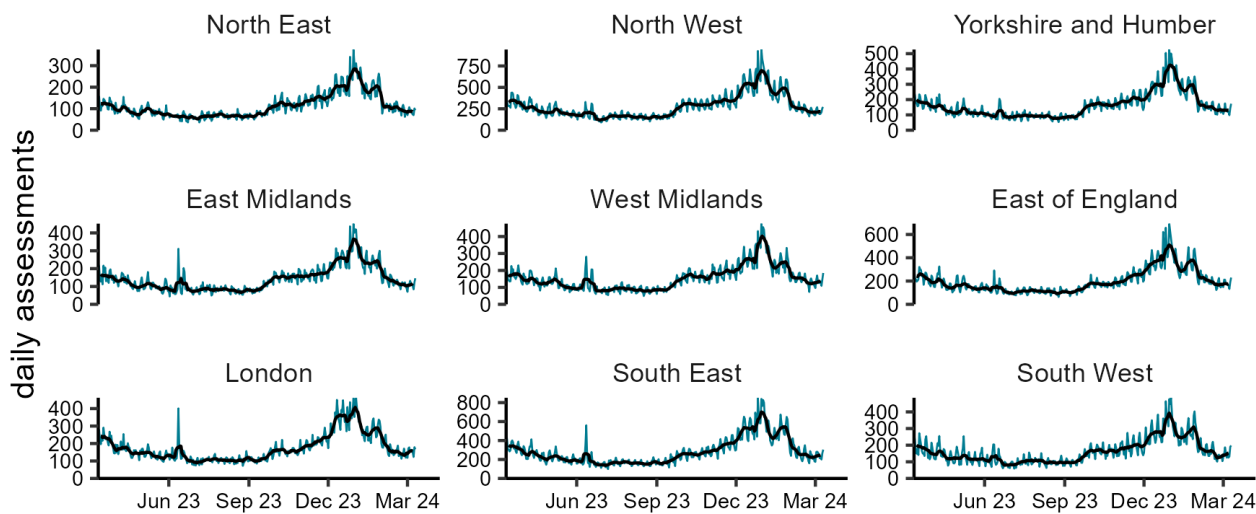
NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON.
Black line is 7 day moving average adjusted for bank holidays.
Black dotted line is baseline.

Potential COVID-19 NHS 111 online

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



(c) NHS 111 online: potential covid-19 by UKHSA region 12/03/2023 to 10/03/2024

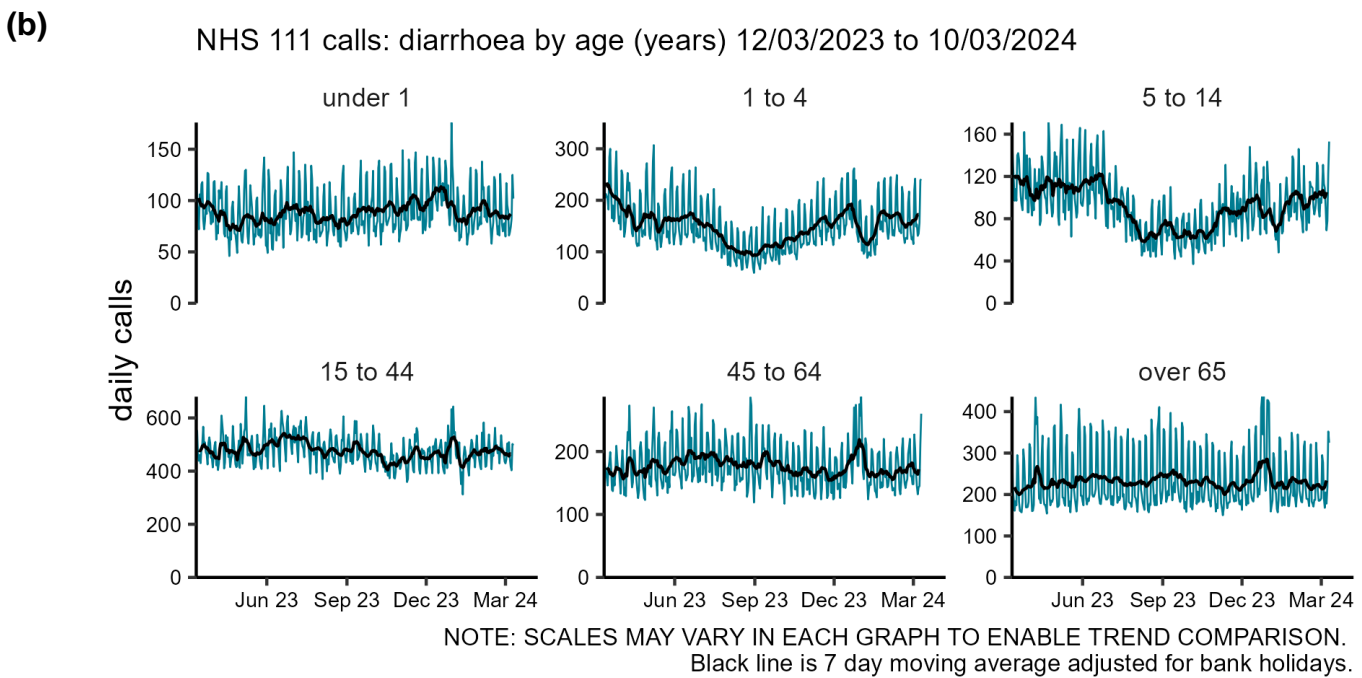
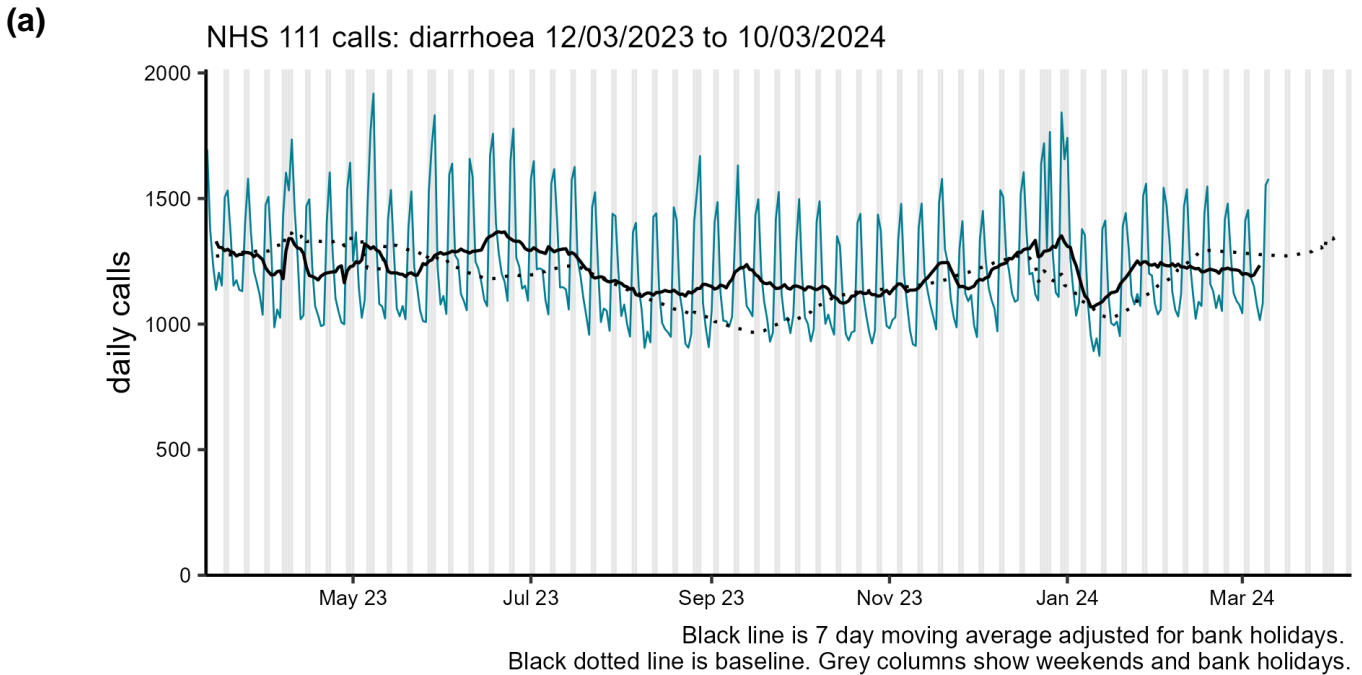


NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON.
Black line is 7 day moving average adjusted for bank holidays.
Black dotted line is baseline.

Gastrointestinal conditions

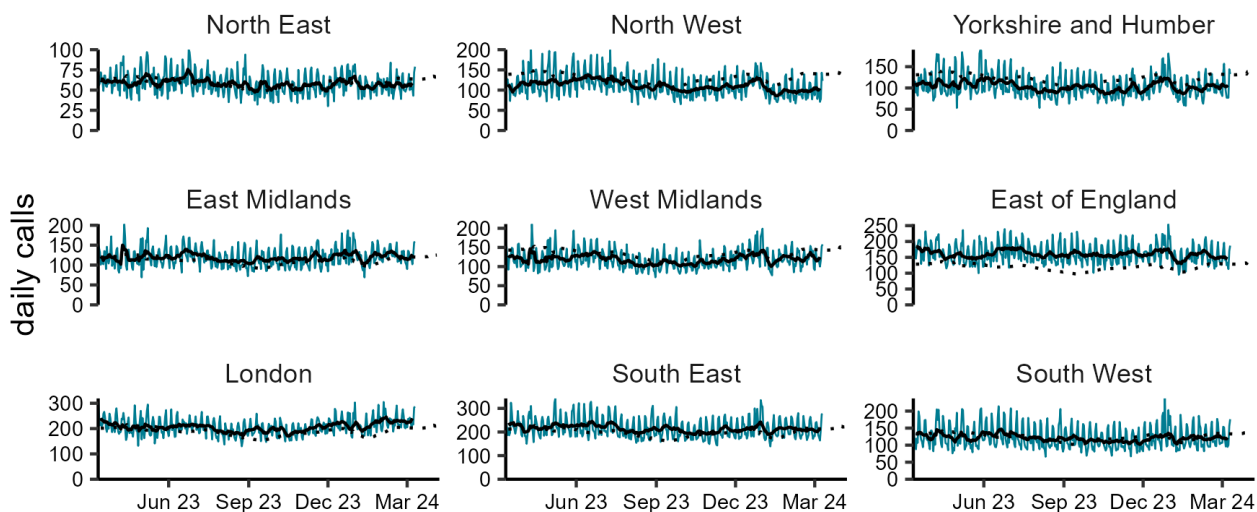
Diarrhoea NHS 111 calls

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



(c)

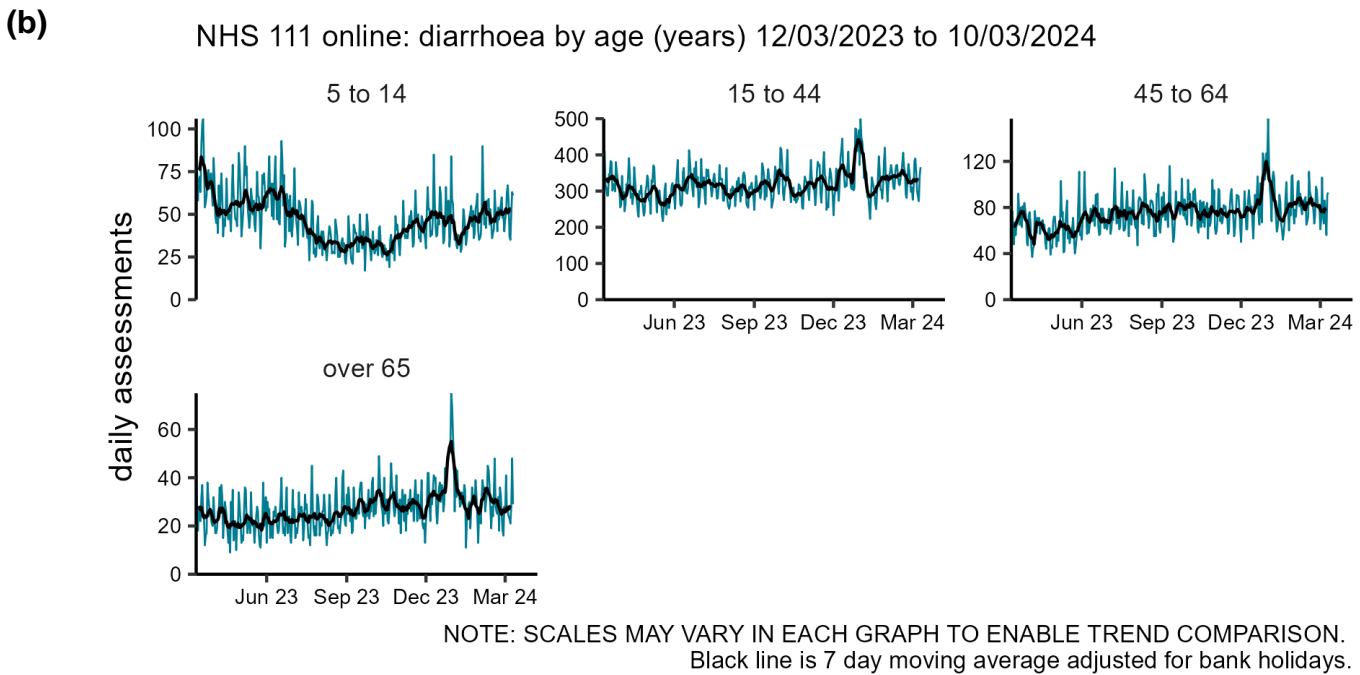
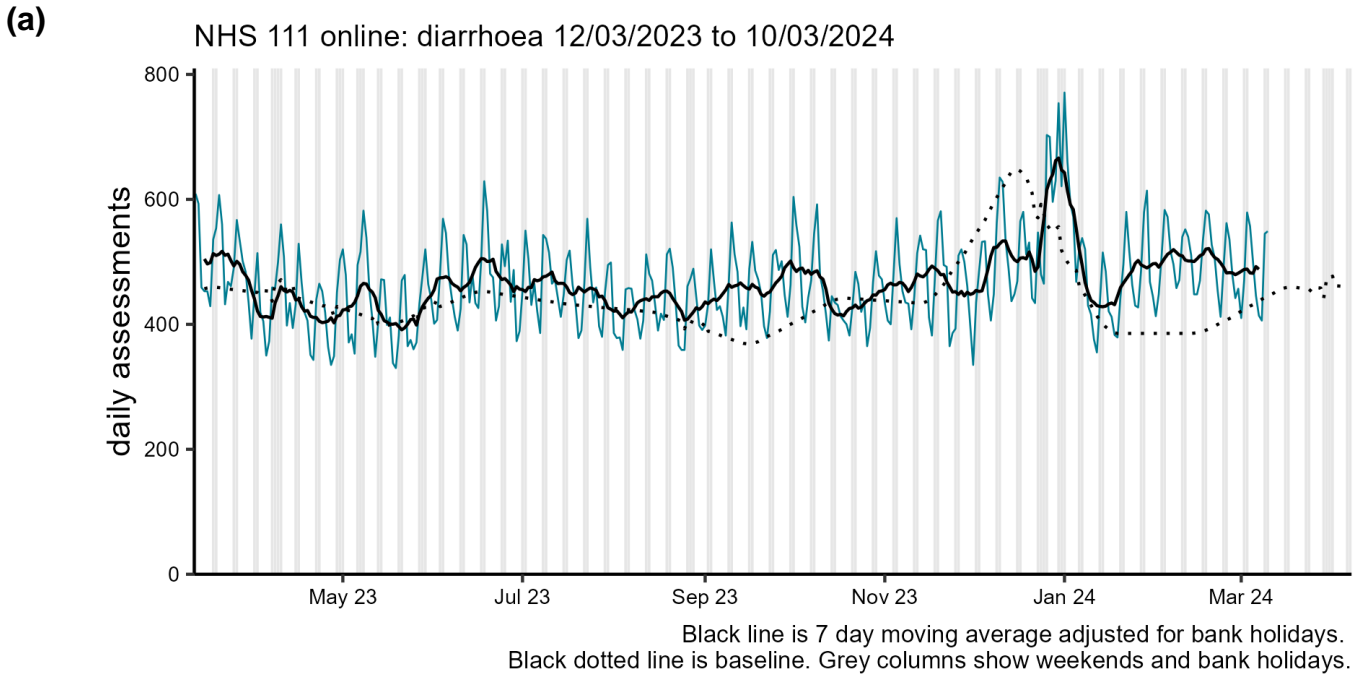
NHS 111 calls: diarrhoea by UKHSA region 12/03/2023 to 10/03/2024



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

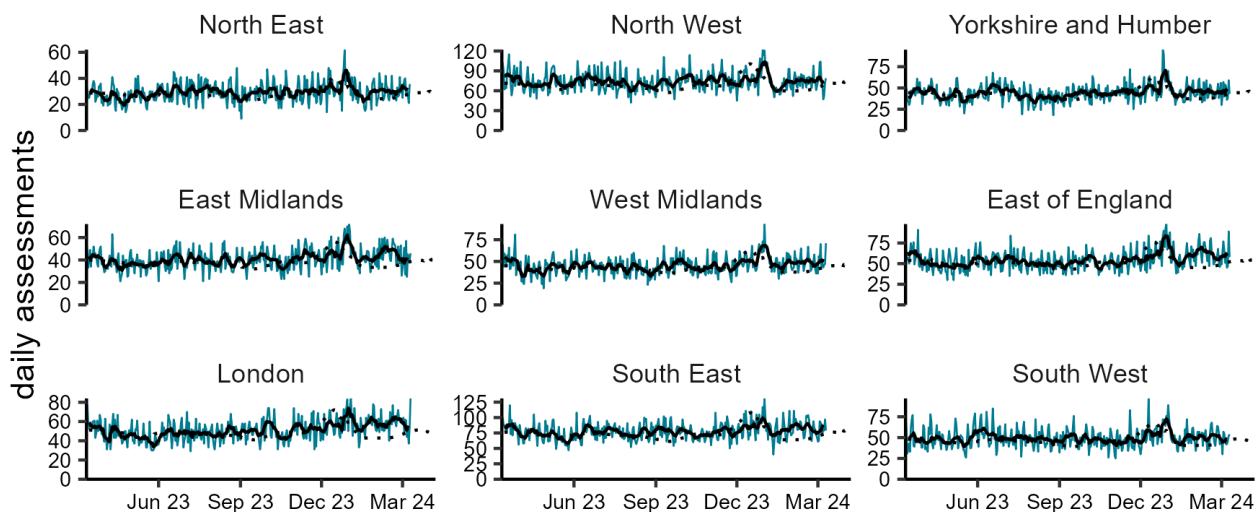
Diarrhoea NHS 111 online

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



(c)

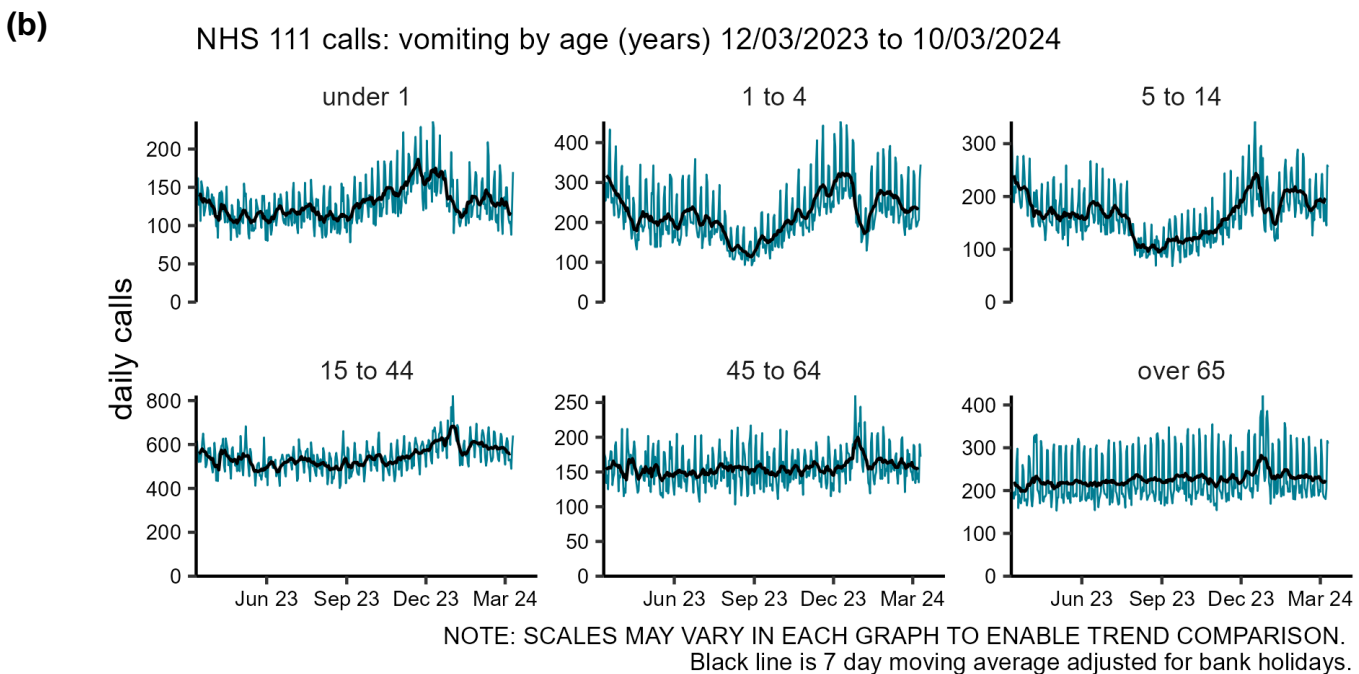
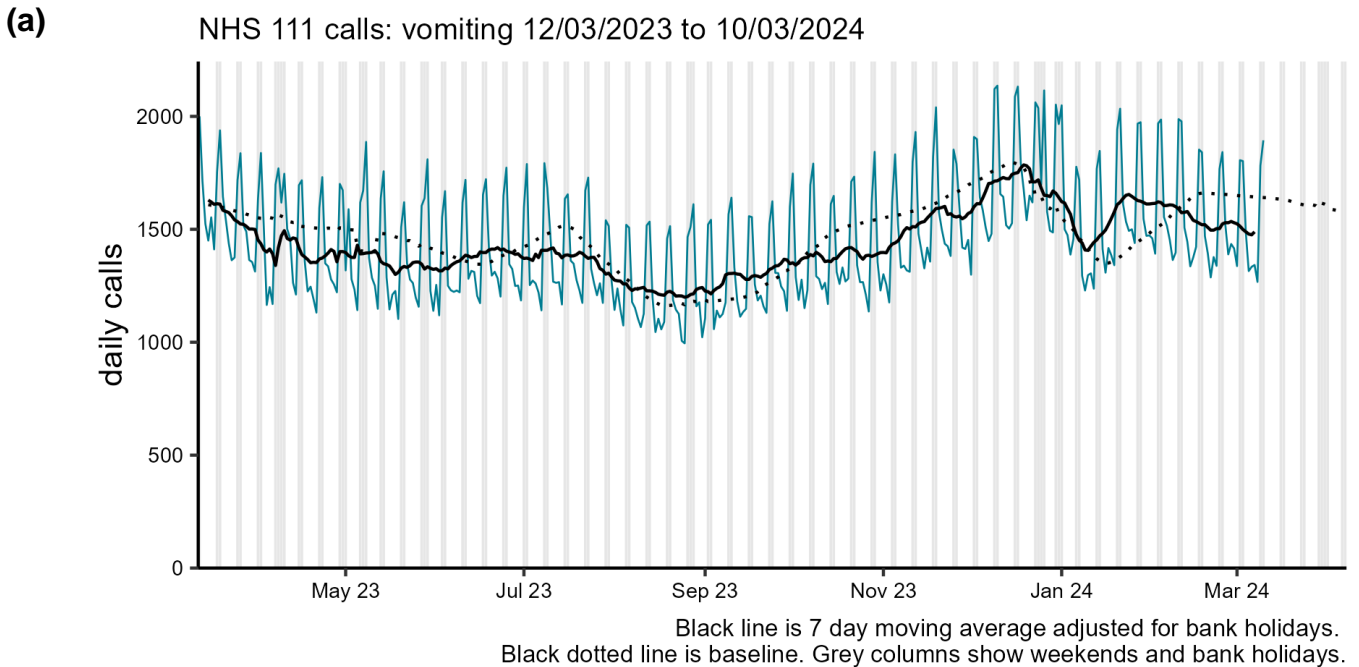
NHS 111 online: diarrhoea by UKHSA region 12/03/2023 to 10/03/2024



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

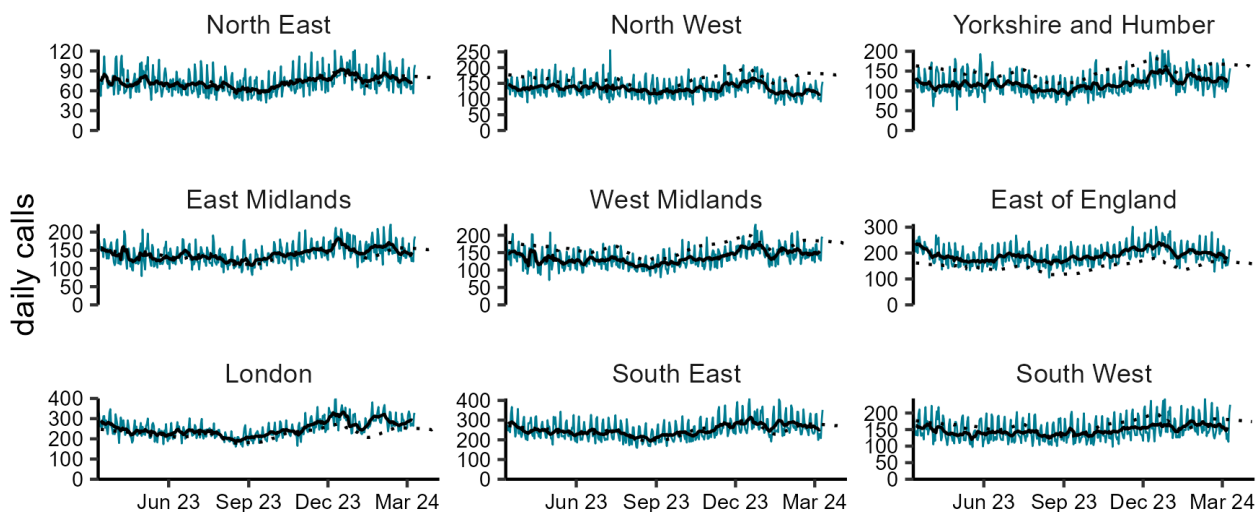
Vomiting NHS 111 calls

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



(c)

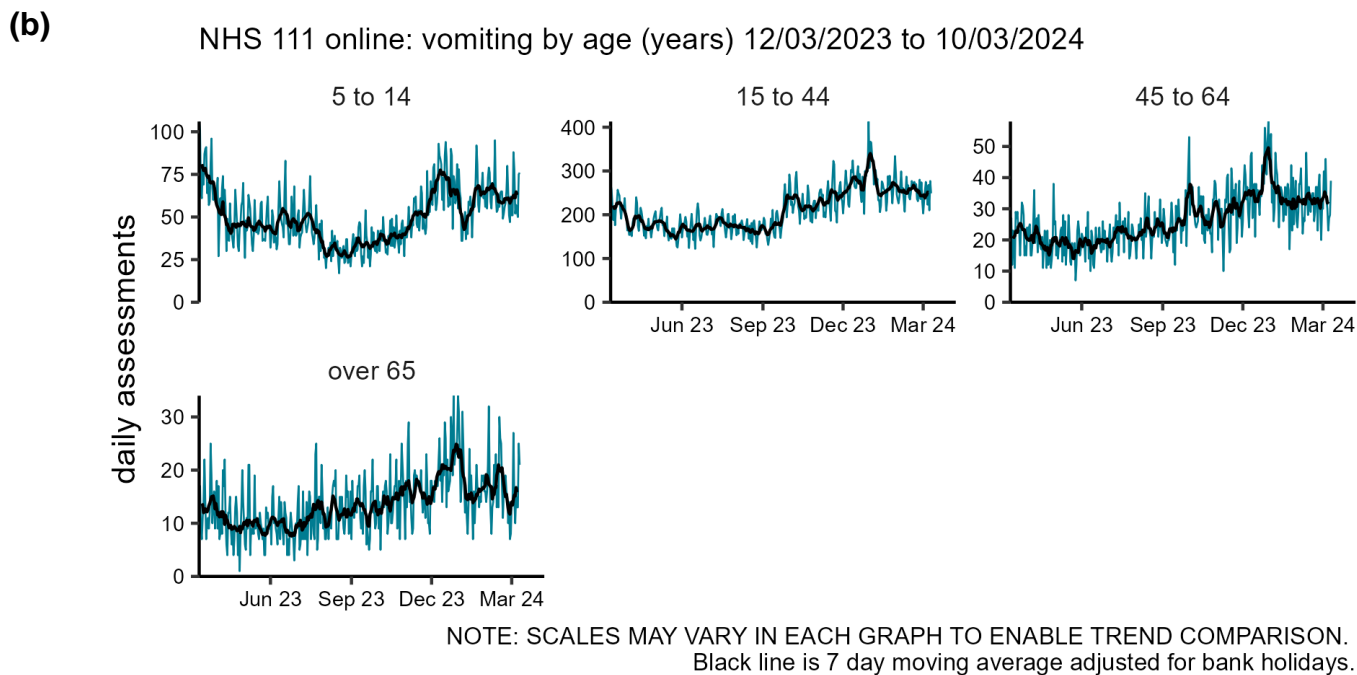
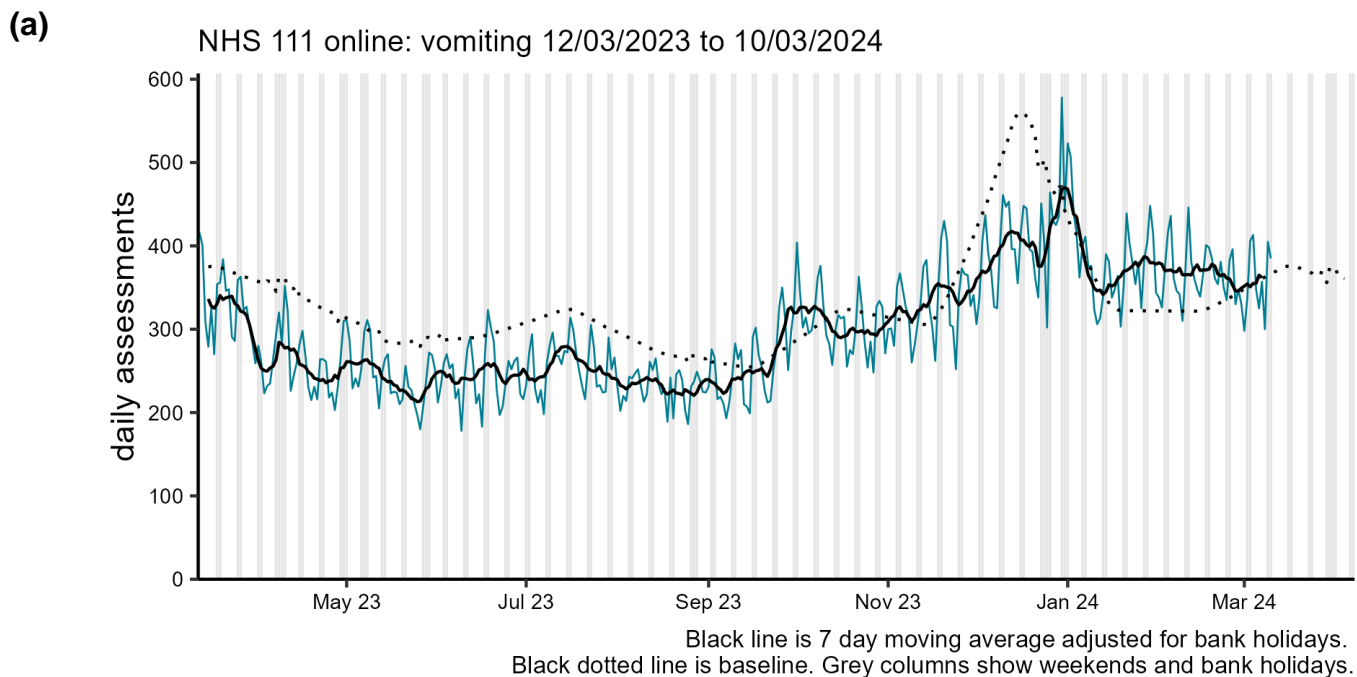
NHS 111 calls: vomiting by UKHSA region 12/03/2023 to 10/03/2024



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

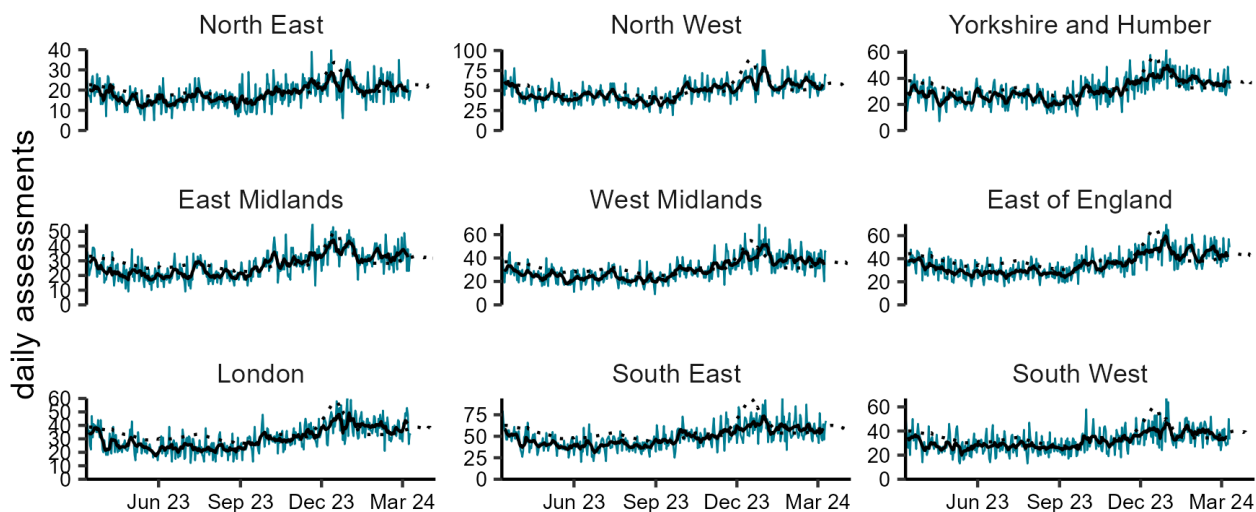
Vomiting NHS 111 online

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



(c)

NHS 111 online: vomiting by UKHSA region 12/03/2023 to 10/03/2024



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

Seasonal environmental conditions

UKHSA and the Met Office operate a weather-health alert system that includes both heat and cold weather alert periods. Syndromic indicators are used to monitor the impact of both extreme hot and cold weather in England during these periods and will be included below (where an appropriate syndromic indicator is available).

[Cold weather alert](#) period: 1 November to 31 March

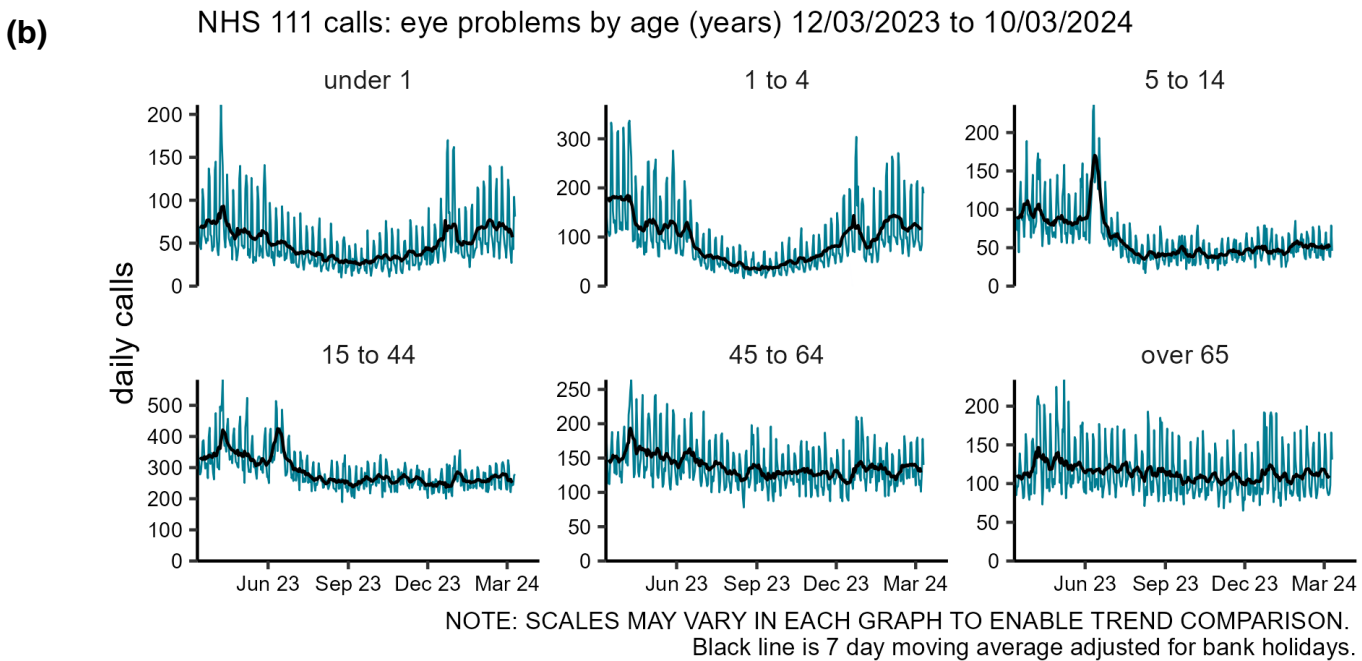
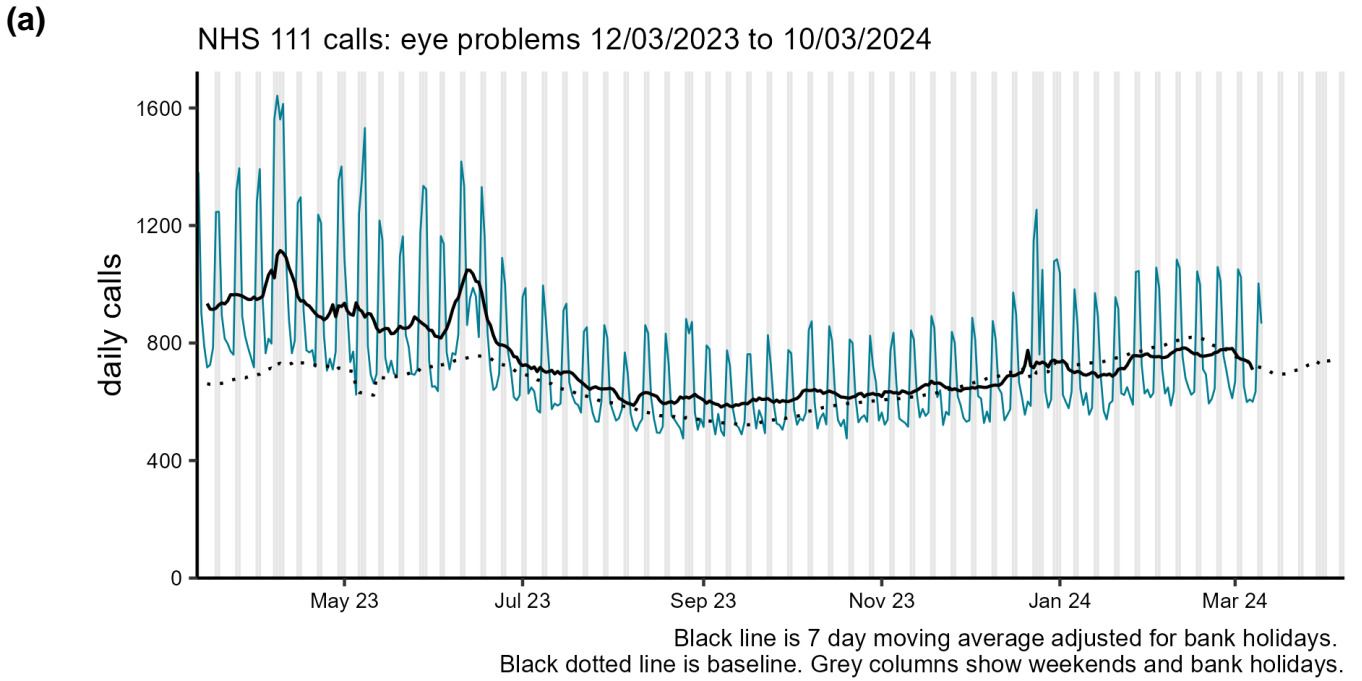
[Heat-Health Alert](#) period: 1 June to 30 September

Highest weather alert level during the current reporting week:

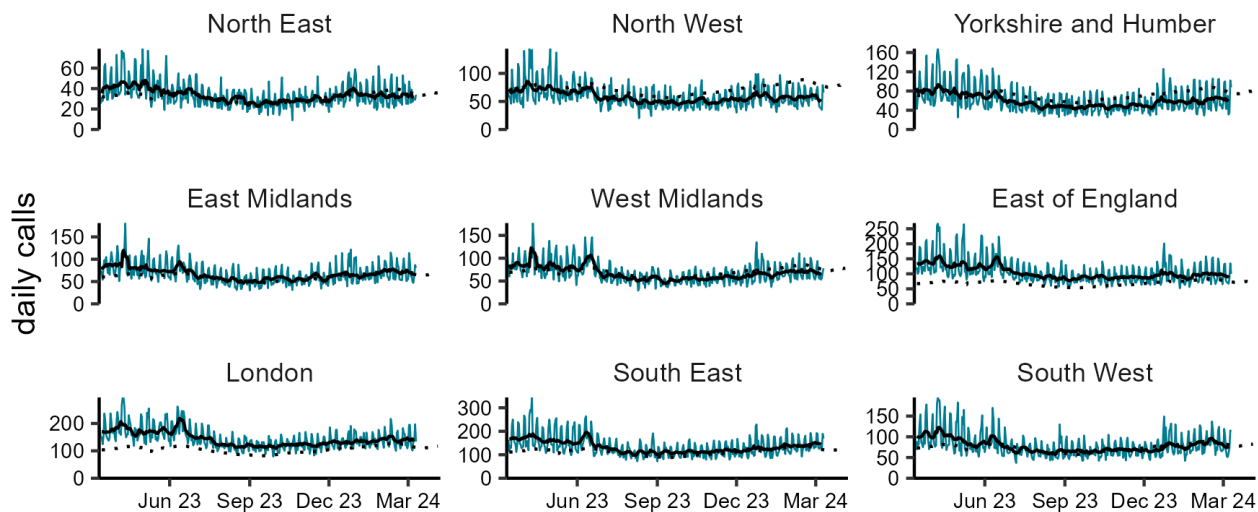
No alerts issued

Eye problems NHS 111 calls

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



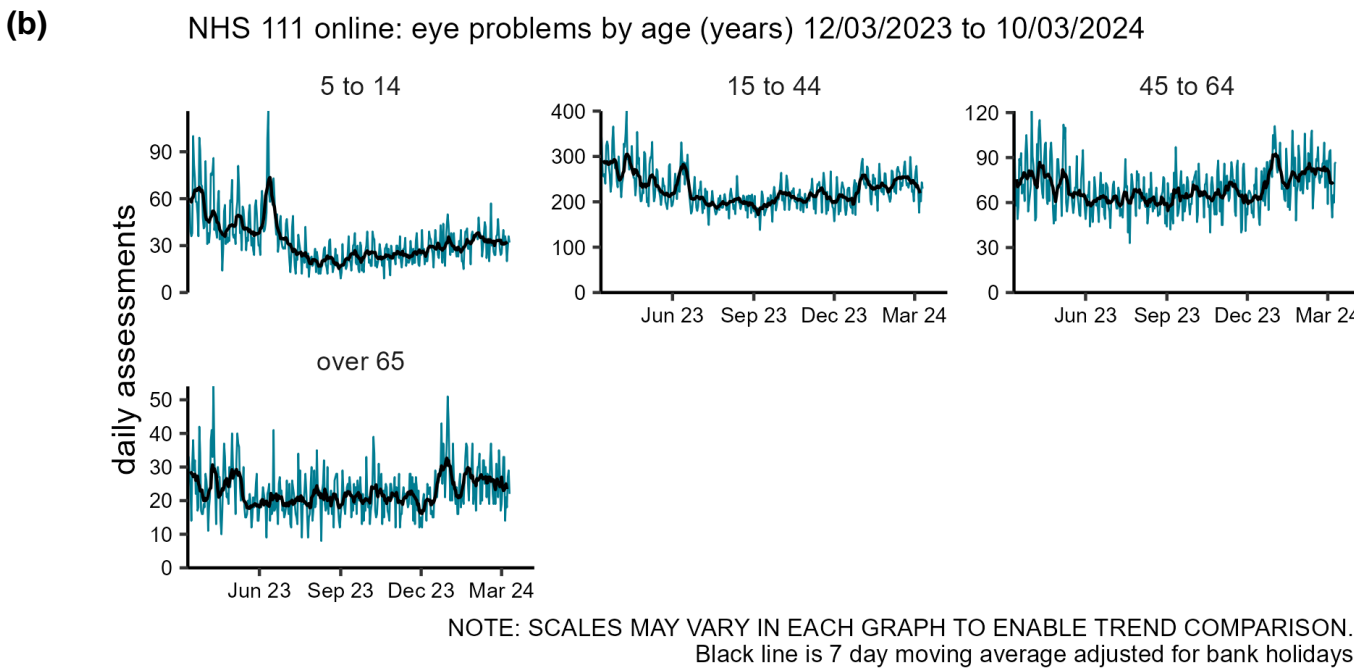
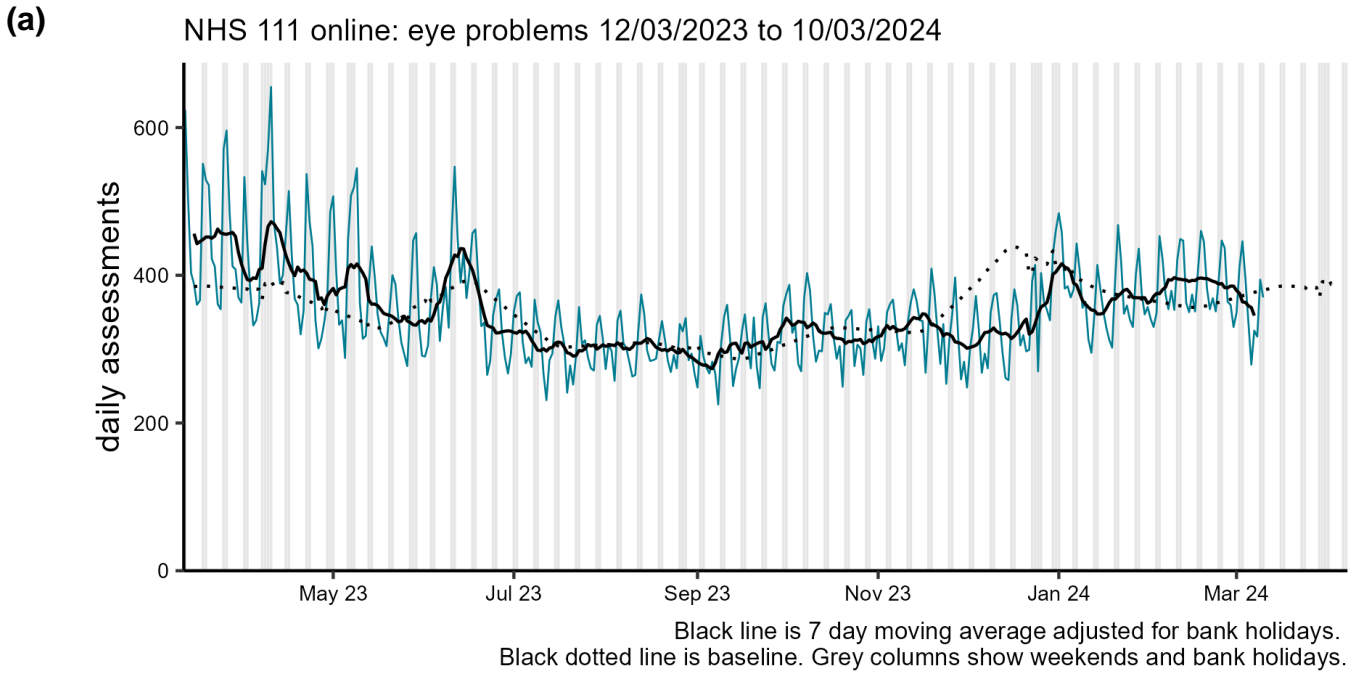
(c) NHS 111 calls: eye problems by UKHSA region 12/03/2023 to 10/03/2024



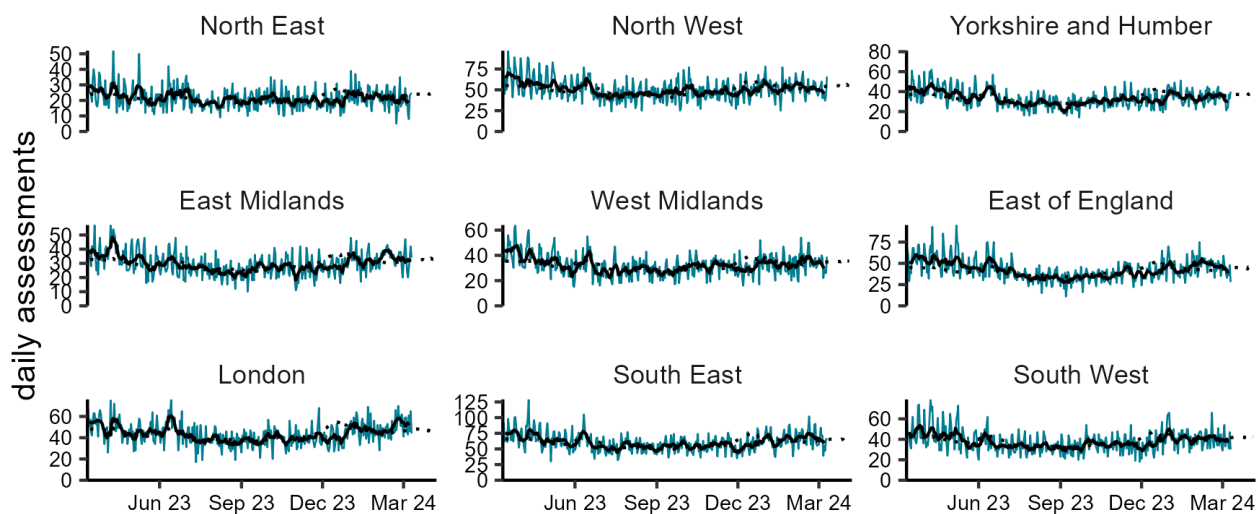
NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON.
Black line is 7 day moving average adjusted for bank holidays.
Black dotted line is baseline.

Eye problems NHS 111 online

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



(c) NHS 111 online: eye problems by UKHSA region 12/03/2023 to 10/03/2024



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

Notes and caveats

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

- during Jan/Feb/Mar 2024 new NHS Pathways system updates (NHS Pathways Release 41 and 42) have resulted in updates to the clinical triage of certain calls and online assessments. These updates have affected the number of syndromic NHS 111 calls and online assessments for the cold/flu, difficulty breathing and 'potential COVID-19' indicators. Due to challenges interpreting the NHS 111 difficulty breathing call indicator, it has been removed from this bulletin. NHS 111 syndromic calls and online assessments for cold/flu, difficulty breathing and 'potential COVID-19' indicators should be interpreted with caution
- 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 January 2024
 - are constructed from historical data since January 2018
 - represent seasonally expected levels of activity
 - take account of any known substantial changes in data collection, population coverage or reporting practices and consequently may vary slightly from week to week (and will rescale) if there are substantial changes in call/online activity

- the COVID-19 pandemic period is excluded
- as NHS 111 systems evolve to meet service needs, we continue to work with NHS 111 and NHS England to ensure that:
 - changes impacting on syndromic indicators reported in this bulletin are identified and accounted for as far as possible
 - changes are described in: **Data quality issues of note this week**
- further information about NHS 111 can be found [here](#)

COVID-19 syndromic surveillance

The 'potential COVID-19' syndromic indicator reported here for all NHS 111 data is based on either the symptom of each call or the outcome of each online assessment (known as the disposition):

- 'potential COVID-19' is the only NHS 111 Online syndromic indicator which is based on disposition
- 'potential COVID-19' online assessments may therefore also appear in other syndromic indicators based on the Pathway of each online assessment
- these data are based on 'potential COVID-19' symptoms reported and are not based on outcomes of tests for coronavirus

Acknowledgements

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

About the UK Health Security Agency

UKHSA is responsible for protecting every member of every community from the impact of infectious diseases, chemical, biological, radiological and nuclear incidents and other health threats. We provide intellectual, scientific and operational leadership at national and local level, as well as on the global stage, to make the nation health secure.

[UKHSA](#) is an executive agency, sponsored by the [Department of Health and Social Care](#).

www.gov.uk/government/organisations/uk-health-security-agency

© Crown copyright 2024
Version: RHA-2

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

Published: March 2024



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



UKHSA supports the UN
Sustainable Development Goals

