CORONAVIRUS SITUATIONAL AWARENESS Summary

date: 16 December 2020



Contents

This situational awareness summary report collates information and intelligence from various sources. The summary will be provided daily and the content will continue to be developed.

National context

High level summary

Case rates, positivity and testing

Please note:

13/10/2020 - denominator data for case and testing rates have been updated to 2019 mid-year population estimates.

20/10/20 - PHE has adjusted its approach to test positivity and testing rate metrics. Previously, any repeat tests for individuals since pandemic onset had been deduplicated. As the likelihood of individuals being tested multiple times has increased over time, test positivity and testing rate data are now deduplicated within each 7-day window. This change has been made in all OST outputs as of 20/10/2020 and applied retrospectively.

16/11/20-PHE has updated the way it records the location of people who test positive or negative for COVID-19. It now prioritises addresses given at the point of testing over the details registered on a patient's record in the NHS Digital Patient Demographic Service. This better reflects the distribution of cases and testing. However, it may give rise to differences in previously reported numbers of cases and rates in some areas. The change has been retrospectively applied to tests carried out from 1 September 2020, and data reports were updated to reflect this change on 16 November 2020.

- •
- PrevalenceHospitalisation
- NHS 111 potential COVID-19
- Outbreak reports
- Mortality

A separate Appendix contains Local Authority maps for case rates, positivity, testing, mortality and contact tracing.

Throughout the SAR:

Lower tier local authorities is used to represent local authority districts, unitary authorities, metropolitan district and London boroughs, Upper tier local authorities is used to represent counties, metropolitan counties, London boroughs and unitary authorities

National context (From 10 December 2020 Week 50 Report)

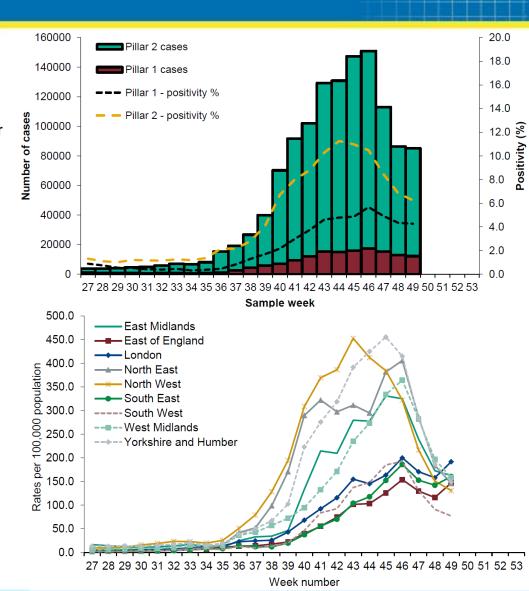
Overall case numbers remained stable in week 49. Overall positivity remained stable in both Pillar 1 and Pillar 2. The highest case rates were seen in the 40 to 49 year olds in Pillars 1 and 2. The highest positivity rates were noted in the 80+ year olds in Pillar 1. In Pillar 2 there were decreases in positivity in the 10 to 19 and the 20 to 29 year age groups. Cases rates were highest in London.

As of 09:00 on 8 December 2020, a total of 1,501,179 have been confirmed positive for COVID-19 in England under Pillars 1 and 2.

- The data are shown by the week the specimen was taken from the person being tested. This gives the most accurate analysis of this time progression, however, for the most recent week results for more samples are expected therefore this should be interpreted with caution.
- Positivity is calculated as the number of individuals testing positive during the week divided by the number of individuals tested during the week based on PCR testing.
- As of 16 November 2020, the methodology for allocating geographies for cases has been updated to include alternate postcodes where applicable. This change has been applied for cases reported since 1 September 2020. Cases reported prior to 1 September 2020 will not be allocated alternate postcode geographies.

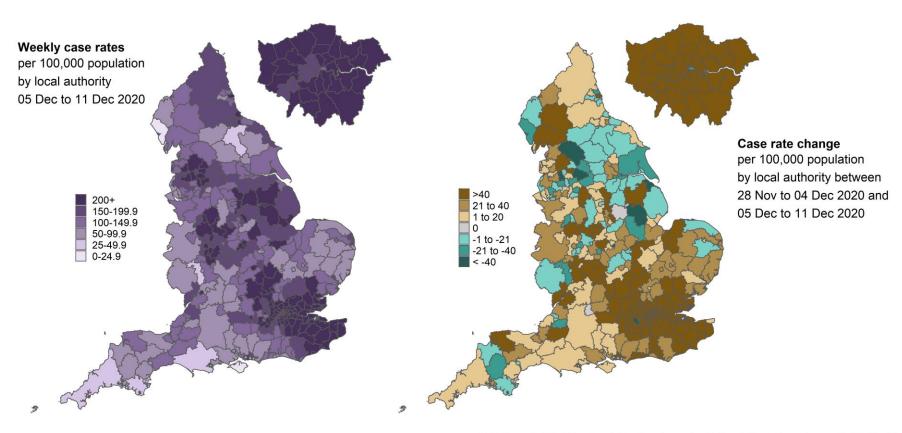
Weekly laboratory confirmed COVID-19 case rates per 100,000 population tested under Pillar 1 and Pillar 2, by PHE Centres and sample week

Case rates have been calculated using mid-2019 ONS population estimates



Case Rates - Geographical spread of COVID-19 in England

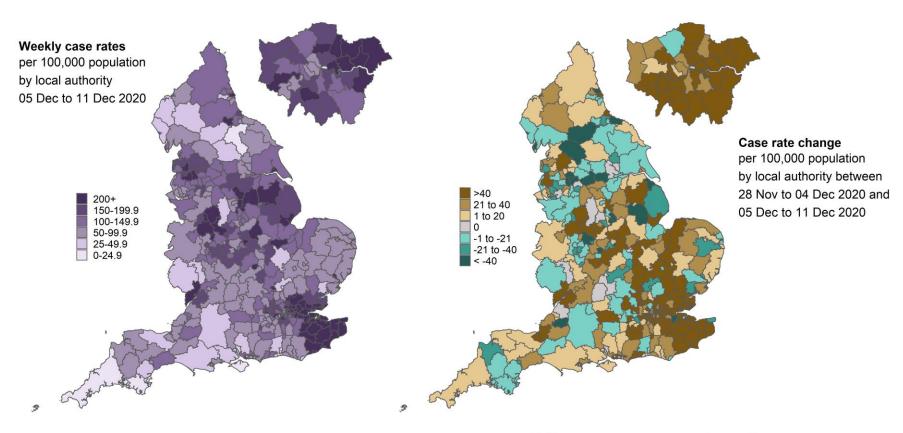
Geographical spread of COVID-19 in England



Data from SGSS; Pillar 1 and 2 testing. Figure by Outbreak Surveillance Team, Public Health England.

Case Rates - Geographical spread of COVID-19 in England (aged 60+ years)

Geographical spread of COVID-19 in England (aged 60+ years)



Data from SGSS; Pillar 1 and 2 testing. Figure by Outbreak Surveillance Team, Public Health England.

High level summary 1 – PHE Centres PHE Centres with highest case rates in 7 days (5 December 2020 to 11 December 2020)

| | Individuals tested per day per 100,000 population (7 day moving | | day per 100,0 population (7 day movir | | day per 100,00 population | | Percen individua positive (v | ls test | status o individu | of LTLAs of percent uals test p (weekly) | tage of ositive | Percentage individual cases reporting symptoms (weekly, Pillar 2 only) | Case ra 100,0 popula (weel | 000 ation | status | r of LTLAs I s of case rat population (| e per | 10 popula 60 ye | rate per 0,000 ition aged ears and | Case rat 100,0 population 17-21 yea | 00 n aged ir olds | Community outbreaks (Last 7 days) | cases in previous 7 |
|----------------------|--|----------|---|---|------------------------------|-------|------------------------------------|---------|----------------------|---|--------------------|---|-------------------------------------|---------------|----------|---|----------|-----------------------|---|--|-------------------------|--|---------------------|
| | averag | e) | | | Red | Amber | Green | ·a cy, | (| 3 / | Purple | Dark Red | Red | over (weekly) | | (weekly) | | , -, | days | | | | |
| East Midlands | 414.8 | 4 | 7.1% | Ŷ | 11 | 28 | 1 | | 186.5 | ^ | 5 | 19 | 16 | 156.8 | • | 187.2 | m | | 9,017 | | | | |
| East of England | 477.3 | • | 7.4% | • | 19 | 16 | 11 | | 227.1 | | 16 | 9 | 21 | 131.0 | | 293.7 | | | 14,772 | | | | |
| London | 440.9 | • | 10.4% | • | 26 | 7 | 0 | | 298.8 | • | 17 | 15 | 1 | 183.5 | • | 393.8 | | | 26,782 | | | | |
| North East | 382.9 | Ψ | 6.6% | • | 5 | 7 | 0 | | 162.0 | | 1 | 6 | 5 | 129.5 | | 141.2 | | | 4,324 | | | | |
| North West | 464.5 | • | 5.0% | Φ | 9 | 23 | 7 | | 141.2 | | 2 | 14 | 22 | 119.2 | | 144.6 | | | 10,369 | | | | |
| South East | 504.6 | • | 7.0% | • | 22 | 30 | 14 | | 227.9 | | 16 | 22 | 27 | 140.0 | | 273.1 | | | 20,306 | | | | |
| South West | 433.0 | • | 3.4% | • | 0 | 12 | 18 | | 90.7 | | 0 | 3 | 22 | 69.3 | | 128.1 | | | 5,104 | | | | |
| West Midlands | 440.1 | • | 6.6% | • | 7 | 18 | 5 | | 180.3 | | 3 | 17 | 9 | 139.5 | | 182.1 | | | 10,697 | | | | |
| Yorkshire and Humber | 396.8 | Ψ. | 6.1% | • | 2 | 14 | 5 | | 149.9 | | 0 | 9 | 11 | 129.5 | | 142.6 | | | 8,250 | | | | |
| England | 460.8 | ↑ | 6.7% | 俞 | 101 | 155 | 61 | | 196.3 | • | 60 | 114 | 134 | 133.0 | ^ | 224.3 | • | | 110,468 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

Data for positive cases with specimen dates between 5 December 2020 to 11 December 2020

Arrows demonstrate how figures compare to the equivalent figure as of **4 December 2020**

Percentage positive: Red >7.5%, Amber >4 to 7.5%

All Cases: Weekly case rate: Purple >250 cases per week, Dark Red > 150 cases per week, Red >50 cases per 100,000 per week, Amber >25 per 100,000 per week

Age 60+ Cases: Weekly case rate: Purple >150 cases per week, Dark Red > 100 cases per week, Red >50 cases per 100,000 per week, Amber >25 per 100,000 per week

Test positivity and testing rate metrics based on updated methodology from 20th October

| Data definitions (see next slide for additional data) | | | | | | | | |
|---|---|--|--|--|--|--|--|--|
| Weekly case rate | Total number of confirmed cases in the most recent 7 day period per 100,000 population | | | | | | | |
| Individuals tested per day per 100,000 (7-DMA) | Number of individuals tested per 100,000 population | | | | | | | |
| Percentage individuals test positive (7-DMA) | Percentage of individuals tested with specimen dates in the most recent 7-days period who were positive for SARS-CoV-2 | | | | | | | |
| Community outbreaks | Number of outbreaks reported to PHE during the 7 day period, excluding those reported from secondary healthcare and care home settings. | | | | | | | |

High level summary 2 – lower tier local authorities Local authority areas of interest

This table contains the areas with the highest weekly case rates

Data for specimens taken/outbreaks reported between **5 December 2020 to 11 December 2020** (7 day)

Arrows demonstrate how figures compare to the equivalent figure as of **4 December 2020**

Test positivity and testing rate metrics based on updated methodology from 20th October

Percentage positive: Red >7.5%, Amber >4 to 7.5%

All Cases: Weekly case rate: Purple >250 cases per week, Dark Red > 150 cases per week, Red >50 cases per 100,000 per week, Amber >25 per 100,000 per week

Age 60+ Cases: Weekly case rate: Purple >150 cases per week, Dark Red > 100 cases per week, Red >50 cases per 100,000 per week, Amber >25 per 100,000 per week

Local restriction tiers reflect those announced on 26 November 2020

Some Local Authority areas have been included as part of wider geographical interventions.

+ local Authorities with small populations whose data are frequently combined with another Local authority area

| | Individuals to day per 1 popular (7 day moving | 00,000 tion | Percen individua positive (v | ls test | Percentage individual cases reporting symptoms (weekly, Pillar 2 only) | Case rat 100,0 popula (week | 00 tion | Case rate 100,00 population 60 years over (wee | aged and | Case rat 100,0 population 17 - 21 yea (week | 00 n aged irs olds | Community outbreaks (Last 7 days) | Local restriction tiers |
|-----------------------|---|----------------|------------------------------------|---------|---|--------------------------------------|------------|--|-------------|---|--------------------------|---|-------------------------|
| Swale | 663.4 | • | 17.1% | • | | 725.6 | 1 | 393.7 | 1 | 1103.4 | • | | Very High |
| Medway | 948.6 | • | 11.8% | | | 701.1 | • | 618.4 | 1 | 779.6 | | | Very High |
| Basildon | 831.4 | • | 12.7% | | | 699.3 | 1 | 324.7 | 1 | 622.2 | | | High |
| Havering | 537.5 | • | 17.0% | | | 596.0 | 1 | 360.0 | 1 | 636.6 | | | High |
| Dover | 722.6 | • | 11.9% | | | 557.9 | 1 | 324.7 | 1 | 745.0 | | | Very High |
| Maidstone | 655.0 | • | 12.9% | | | 552.3 | 1 | 286.8 | 1 | 765.5 | | | Very High |
| Ashford | 591.5 | • | 14.2% | | | 549.9 | 1 | 290.1 | 1 | 441.2 | | | Very High |
| Canterbury | 689.1 | • | 11.5% | | | 517.6 | 1 | 312.6 | 1 | 418.6 | | | Very High |
| Broxbourne | 495.5 | • | 15.5% | | | 517.1 | 1 | 208.0 | 1 | 581.2 | | | High |
| Barking and Dagenham | 472.5 | • | 16.9% | | | 512.0 | 1 | 385.7 | 1 | 525.5 | | | High |
| Thurrock | 512.0 | • | 14.9% | | | 510.5 | • | 274.6 | 1 | 706.6 | | | High |
| Epping Forest | 566.2 | • | 13.5% | | | 504.2 | 1 | 268.8 | 1 | 409.4 | | | High |
| Gravesham | 529.3 | • | 14.8% | | | 496.5 | 1 | 271.7 | Ψ | 446.6 | | | Very High |
| Redbridge | 449.2 | • | 16.6% | | | 480.3 | • | 286.2 | 1 | 517.4 | | | High |
| Lincoln | 691.1 | • | 10.8% | | | 479.4 | • | 413.4 | 1 | 264.5 | | | Very High |
| Hastings | 690.2 | • | 10.0% | | | 455.4 | • | 415.5 | 1 | 387.2 | | | High |
| Brentwood | 662.0 | • | 10.6% | | | 454.4 | • | 244.5 | 1 | 757.6 | | | High |
| Thanet | 622.7 | • | 11.4% | | | 447.4 | • | 228.8 | Ψ | 426.4 | | | Very High |
| Boston | 527.5 | • | 12.9% | | | 441.8 | • | 416.6 | 1 | 463.0 | | | Very High |
| Folkestone and Hythe | 609.3 | • | 10.9% | | | 438.1 | • | 350.2 | 1 | 487.1 | | | Very High |
| Tonbridge and Malling | 518.1 | • | 12.7% | | | 435.1 | • | 241.5 | 1 | 698.4 | | | Very High |
| Waltham Forest | 450.3 | • | 14.7% | | | 431.1 | 1 | 255.5 | 1 | 544.4 | | | High |
| Enfield | 462.8 | • | 13.9% | | | 430.2 | • | 185.0 | 1 | 595.3 | | | High |
| Dartford | 470.8 | • | 14.2% | | | 422.7 | • | 208.6 | 1 | 468.3 | | | Very High |
| Newham | 386.5 | • | 16.1% | | | 406.4 | • | 296.6 | 1 | 500.0 | | | High |
| Bexley | 506.5 | • | 12.4% | | | 406.4 | • | 245.4 | 1 | 635.6 | | | High |
| Tower Hamlets | 417.0 | • | 14.1% | | | 372.9 | 4 | 258.0 | 1 | 511.3 | | | High |
| Castle Point | 466.9 | • | 12.2% | | | 364.0 | • | 307.8 | 1 | 495.5 | | | High |
| Braintree | 515.6 | • | 10.1% | | | 355.2 | • | 122.0 | | 388.0 | | | High |
| Slough | 461.7 | Ψ | 12.3% | | | 353.1 | • | 218.8 | Ψ | 433.8 | • | | Very High |
| England | 460.8 | • | 6.7% | Ŷ | | 196.3 | | 133.0 | | 224.3 | | | |

High level summary 3 – lower tier local authorities Local authority areas of interest

Local authority areas not included in the High level summary 1 where the weekly case rate has risen from the previous week

Data for specimens taken/outbreaks reported between 5 December 2020 to 11 December 2020 (7 day)

Arrows demonstrate how figures compare to the equivalent figure as of **4 December 2020**

Test positivity and testing rate metrics based on updated methodology from 20th October

Percentage positive: Red >7.5%. Amber >4 to 7.5%

All Cases: Weekly case rate: Purple >250 cases per week, Dark Red > 150 cases per week, Red >50 cases per 100,000 per week, Amber >25 per 100,000 per week

Age 60+ Cases: Weekly case rate: Purple >150 cases per week, Dark Red > 100 cases per week, Red >50 cases per 100,000 per week, Amber >25 per 100,000 per week

Local restriction tiers reflect those announced on 26 November 2020

Some Local Authority areas have been included as part of wider geographical interventions.

+ local Authorities with small populations whose data are frequently combined with another Local authority area

| | Individuals to day per 10 populat (7 day moving | 00,000 tion | Percen individua positive (v | ls test | Percentage individual cases reporting symptoms (weekly, Pillar 2 only) | Case rat 100,0 popula (week | 00 tion | Case ra 100, populatio 60 year over (w | 000 on aged rs and | Case ra 100,0 populatio 17 - 21 yea (weel | 000 n aged ars olds | Community outbreaks (Last 7 days) | Local restriction tiers |
|----------------------|--|----------------|------------------------------------|---------|---|--------------------------------------|------------|--|--------------------------|---|---------------------------|---|-------------------------|
| Southend-on-Sea | 587.7 | • | 9.5% | • | | 350.6 | | 288.0 | | 648.4 | • | | High |
| Rochford | 454.2 | • | 11.2% | | | 337.7 | • | 214.1 | • | 610.2 | | | High |
| Chelmsford | 485.2 | • | 10.0% | | | 327.4 | • | 165.3 | • | 492.5 | | | High |
| Bromley | 431.3 | • | 11.1% | | | 320.2 | • | 132.9 | | 583.8 | | | High |
| Luton | 596.4 | • | 8.5% | | | 314.5 | • | 248.6 | 1 | 370.6 | | | High |
| Kingston upon Thames | 480.8 | • | 10.1% | | | 313.2 | • | 188.6 | • | 401.3 | | | High |
| Burnley | 451.0 | • | 10.9% | | | 309.3 | • | 191.9 | • | 243.6 | | | Very High |
| South Tyneside | 382.1 | • | 12.0% | | | 308.7 | • | 355.6 | • | 227.8 | | | Very High |
| Merton | 430.6 | • | 10.9% | | | 307.4 | • | 276.9 | • | 471.1 | | | High |
| Milton Keynes | 467.1 | • | 10.0% | | | 306.5 | • | 167.4 | • | 370.1 | | | High |
| Watford | 520.2 | • | 9.3% | | | 305.5 | 1 | 186.4 | • | 390.3 | | | High |
| West Lindsey | 465.5 | • | 10.3% | | | 305.2 | • | 275.8 | • | 358.5 | | | Very High |
| Harrow | 444.8 | • | 10.7% | | | 302.6 | • | 156.9 | • | 470.4 | | | High |
| Harlow | 478.3 | • | 9.8% | | | 302.1 | 1 | 221.9 | • | 305.5 | | | High |
| East Staffordshire | 496.5 | • | 9.3% | | | 298.9 | • | 248.4 | • | 172.7 | | | Very High |
| Rother | 580.9 | • | 8.2% | | | 298.7 | 1 | 244.9 | • | 511.5 | | | High |
| Sutton | 464.3 | • | 9.8% | | | 294.6 | • | 165.3 | • | 431.3 | | | High |
| Greenwich | 455.4 | • | 9.7% | | | 291.4 | 1 | 197.3 | • | 476.9 | | | High |
| Hackney | 411.4 | • | 10.6% | | | 290.3 | • | 182.5 | 4 | 370.6 | | | High |
| Tunbridge Wells | 507.9 | • | 8.6% | | | 288.9 | 1 | 218.9 | 1 | 596.1 | | | Very High |
| Haringey | 420.8 | • | 10.3% | | | 287.7 | • | 217.5 | 4 | 333.6 | | | High |
| Hertsmere | 532.0 | • | 7.8% | | | 279.3 | 1 | 108.2 | | 496.8 | | | High |
| Peterborough | 414.6 | • | 10.5% | | | 278.9 | 1 | 203.8 | 1 | 380.5 | | | High |
| Woking | 497.1 | • | 8.9% | | | 277.8 | • | 139.8 | | 444.5 | | | High |
| Wolverhampton | 454.9 | • | 9.4% | | | 277.6 | • | 176.8 | Ψ | 331.6 | | | Very High |
| Croydon | 434.5 | • | 9.6% | | | 273.1 | 1 | 179.6 | • | 352.2 | | | High |
| Leicester | 510.5 | Ψ | 8.0% | | | 255.8 | • | 225.4 | • | 255.6 | | | Very High |
| South Derbyshire | 429.9 | • | 9.0% | | | 252.7 | 1 | 185.4 | • | 316.7 | | | Very High |
| Hounslow | 414.8 | • | 9.4% | | | 249.7 | | 200.2 | • | 243.0 | | | High |
| Spelthorne | 496.1 | • | 7.9% | | | 247.4 | | 103.7 | | 201.8 | | | High |
| England | 460.8 | 1 | 6.7% | r r | | 196.3 | 1 | 133.0 | 1 | 224.3 | 1 | | |

High level summary 4 – lower tier local authorities, highest weekly case rates for individuals aged 60 years and over. Local authority areas of interest

This table contains the areas with the highest weekly case rates for individuals aged 60 years and over

Data for specimens taken/outbreaks reported between 5 December 2020 to 11 December 2020 (7 day)

Arrows demonstrate how figures compare to the equivalent figure as of 4 December 2020

Test positivity and testing rate metrics based on updated methodology from 20th October

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Local restriction tiers reflect those announced on 26 November 2020

Some Local Authority areas have been included as part of wider geographical interventions.

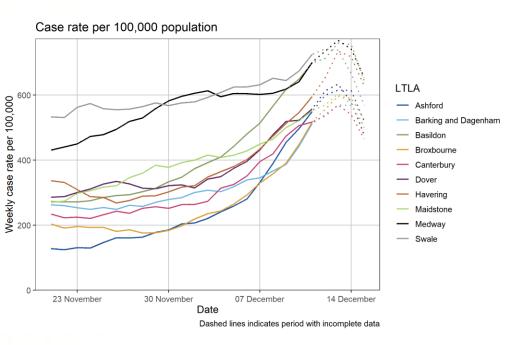
+ local Authorities with small populations whose data are frequently combined with another Local authority area

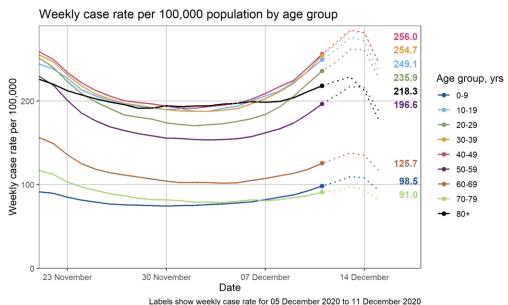
| | Individuals to day per 1 popula (7 day moving | 00,000 tion | Percen individua positive (\ | ls test | Percentage individual cases reporting symptoms (weekly, Pillar 2 only) | Case rat 100,0 popula (week | 00 tion | Case ra 100, populatio 60 year over (w | 000 on aged rs and | Case rat 100,0 populatio 17 - 21 yea (week | 00 n aged irs olds | Community outbreaks (Last 7 days) | Local restriction tiers |
|-------------------------|--|----------------|------------------------------------|---------|---|--------------------------------------|------------|--|--------------------------|--|--------------------------|---|-------------------------|
| Medway | 948.6 | • | 11.8% | Ψ | | 701.1 | 1 | 618.4 | 1 | 779.6 | • | | Very High |
| Boston | 527.5 | • | 12.9% | | | 441.8 | 4 | 416.6 | 4 | 463.0 | | | Very High |
| Hastings | 690.2 | • | 10.0% | | | 455.4 | 4 | 415.5 | | 387.2 | | | High |
| Lincoln | 691.1 | 1 | 10.8% | | | 479.4 | • | 413.4 | 1 | 264.5 | | | Very High |
| Swale | 663.4 | • | 17.1% | | | 725.6 | • | 393.7 | 1 | 1103.4 | | | Very High |
| Barking and Dagenham | 472.5 | • | 16.9% | | | 512.0 | • | 385.7 | • | 525.5 | | | High |
| Havering | 537.5 | • | 17.0% | | | 596.0 | • | 360.0 | • | 636.6 | | | High |
| South Tyneside | 382.1 | • | 12.0% | | | 308.7 | • | 355.6 | 1 | 227.8 | | | Very High |
| Folkestone and Hythe | 609.3 | • | 10.9% | | | 438.1 | • | 350.2 | • | 487.1 | | | Very High |
| Stoke-on-Trent | 595.2 | • | 8.5% | | | 317.9 | Ψ | 340.8 | Ψ | 303.7 | | | Very High |
| Dover | 722.6 | • | 11.9% | | | 557.9 | • | 324.7 | • | 745.0 | | | Very High |
| Basildon | 831.4 | • | 12.7% | | | 699.3 | 1 | 324.7 | 1 | 622.2 | | | High |
| Canterbury | 689.1 | • | 11.5% | | | 517.6 | 1 | 312.6 | 1 | 418.6 | | | Very High |
| Castle Point | 466.9 | • | 12.2% | | | 364.0 | 1 | 307.8 | 1 | 495.5 | | | High |
| Newham | 386.5 | • | 16.1% | | | 406.4 | 1 | 296.6 | 1 | 500.0 | | | High |
| Staffordshire Moorlands | 509.3 | • | 7.2% | Ŷ | | 226.5 | | 292.1 | 1 | 326.0 | | | Very High |
| Ashford | 591.5 | • | 14.2% | | | 549.9 | 1 | 290.1 | 1 | 441.2 | | | Very High |
| Southend-on-Sea | 587.7 | • | 9.5% | | | 350.6 | • | 288.0 | 1 | 648.4 | | | High |
| Maidstone | 655.0 | • | 12.9% | | | 552.3 | 1 | 286.8 | 1 | 765.5 | | | Very High |
| Redbridge | 449.2 | • | 16.6% | | | 480.3 | 1 | 286.2 | 1 | 517.4 | | | High |
| Merton | 430.6 | • | 10.9% | | | 307.4 | 4 | 276.9 | • | 471.1 | | | High |
| West Lindsey | 465.5 | • | 10.3% | | | 305.2 | • | 275.8 | 1 | 358.5 | | | Very High |
| Thurrock | 512.0 | • | 14.9% | | | 510.5 | 1 | 274.6 | 1 | 706.6 | | | High |
| Gravesham | 529.3 | • | 14.8% | | | 496.5 | • | 271.7 | Ψ | 446.6 | | | Very High |
| Epping Forest | 566.2 | • | 13.5% | • | | 504.2 | 1 | 268.8 | 1 | 409.4 | | | High |
| Mansfield | 440.8 | • | 6.7% | Ŷ | | 194.9 | | 260.3 | 1 | 160.0 | | | Very High |
| Tower Hamlets | 417.0 | • | 14.1% | • | | 372.9 | 1 | 258.0 | • | 511.3 | | | High |
| Waltham Forest | 450.3 | • | 14.7% | | | 431.1 | • | 255.5 | 1 | 544.4 | | | High |
| Bassetlaw | 372.2 | • | 10.2% | | | 234.1 | | 249.2 | 1 | 235.5 | | | Very High |
| Luton | 596.4 | • | 8.5% | | | 314.5 | 1 | 248.6 | 1 | 370.6 | | | High |
| England | 460.8 | • | 6.7% | Ŷ | | 196.3 | 1 | 133.0 | 1 | 224.3 | 1 | | |





Case rate across both pillars 1 and 2 (weekly) Data up to the 11 December 2020

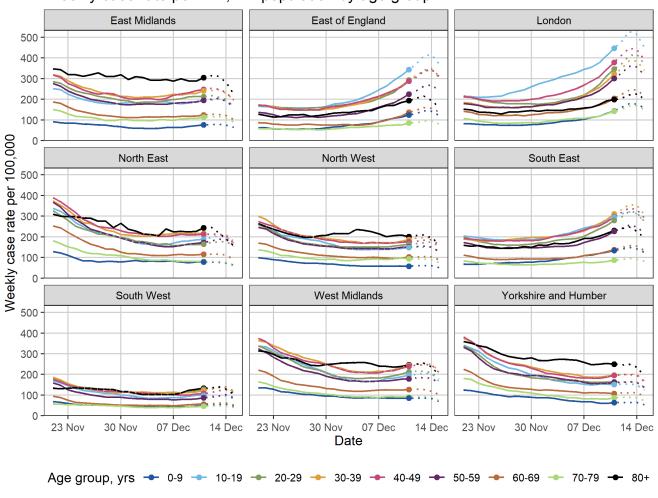




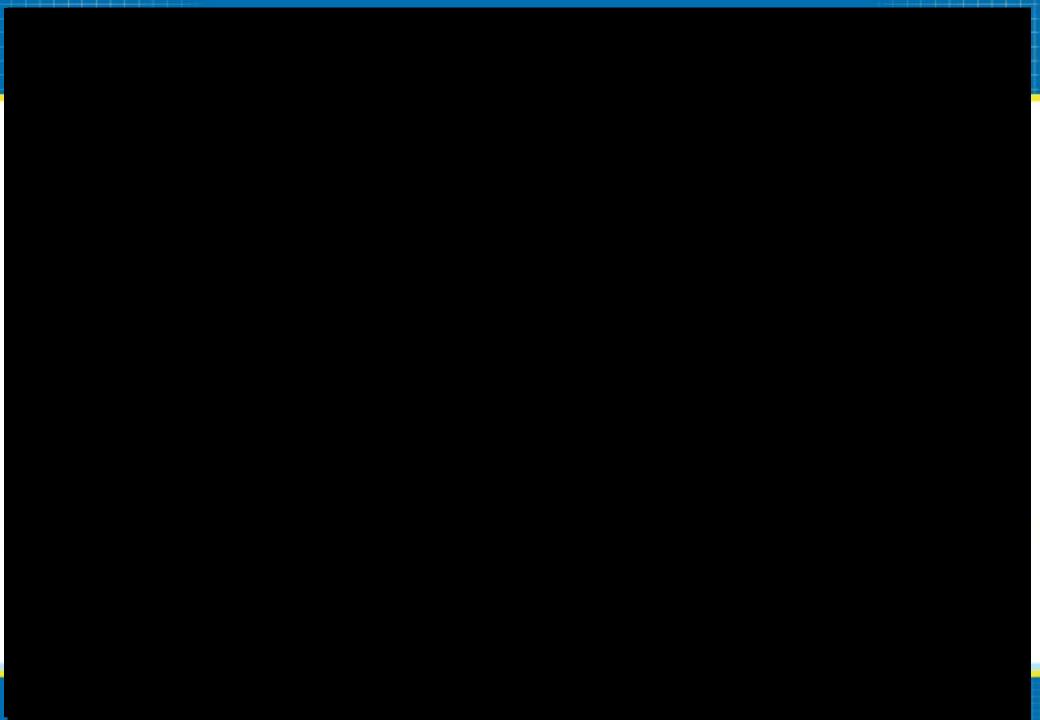
Dashed lines indicates period with incomplete data

Case rate across both pillars 1 and 2 (weekly) Data up to the 11 December 2020

Weekly case rate per 100,000 population by age group

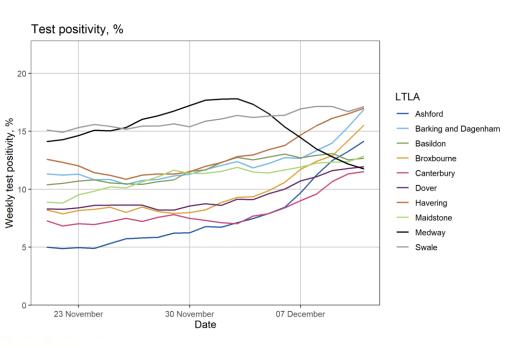


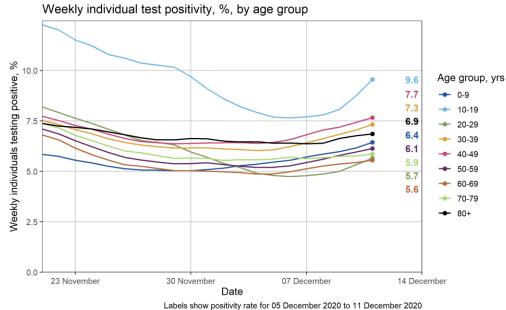
Dashed lines indicates period with incomplete data





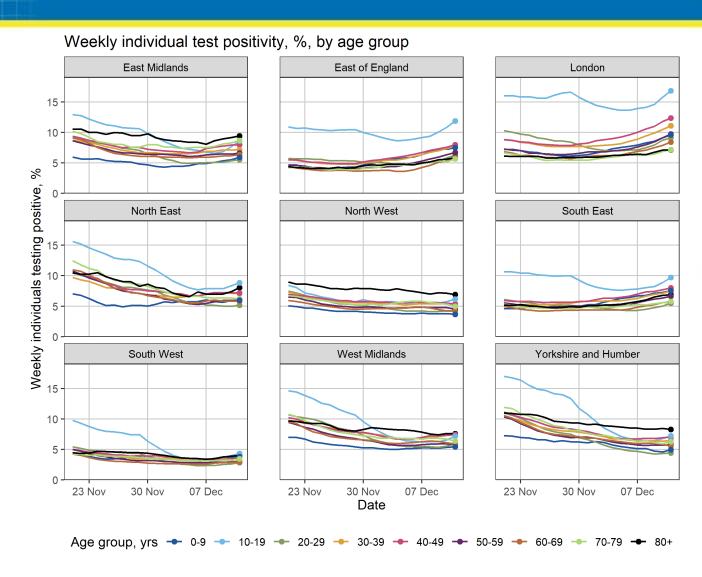
Percentage of individuals testing positive across both pillars 1 and 2 (weekly) Data up to the 11 December 2020



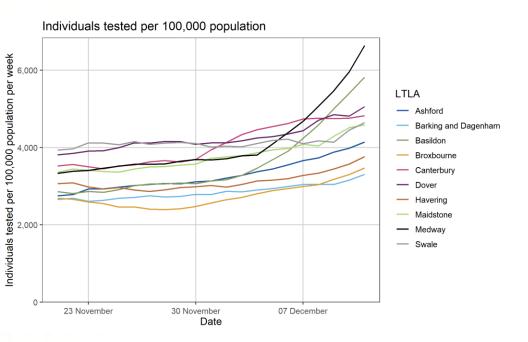


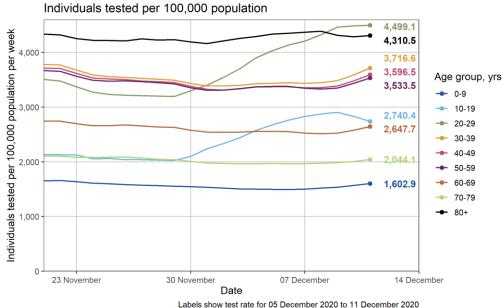
Test positivity and testing rate metrics based on updated methodology from 20th October

Percentage of individuals testing positive across both pillars 1 and 2 (weekly) Data up to the 11 December 2020

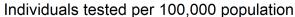


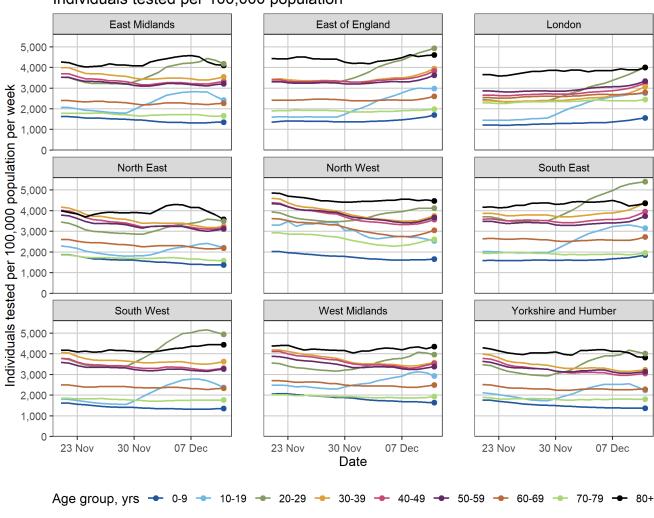
Individuals tested across both pillars 1 and 2 (weekly) Data up to the 11 December 2020

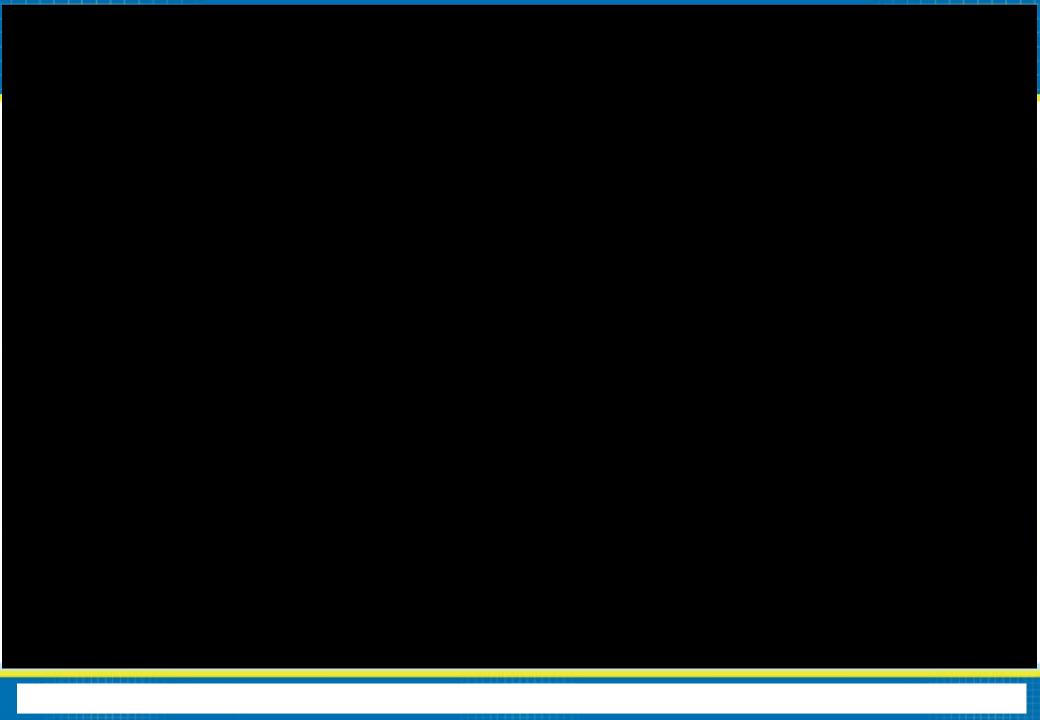




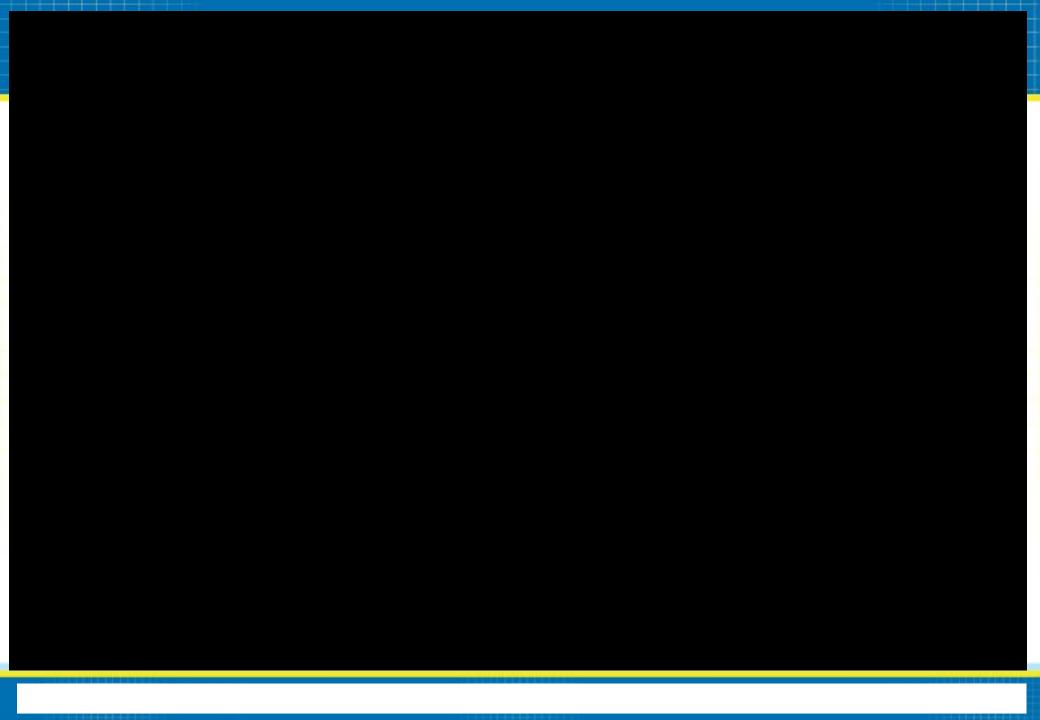
Individuals tested across both pillars 1 and 2 (weekly) Data up to the 11 December 2020











Percentage prevalence of COVID-19 across England and Government Office regions - table Data generated 11 December 2020 by PHE Joint Modelling Cell

| Geography | 04/12/2020 | 11/12/2020 | 18/12/2020 |
|--------------------------|-------------------|-------------------|-------------------|
| England | 1.21 (0.93, 1.56) | 1.41 (1.04, 1.86) | 1.61 (1.15, 2.19) |
| North East | 1.17 (0.71, 1.91) | 1.19 (0.61, 2.25) | 1.18 (0.51, 2.57) |
| Yorkshire and The Humber | 1.14 (0.73, 1.71) | 1.01 (0.56, 1.73) | 0.88 (0.42, 1.72) |
| North West | 0.83 (0.54, 1.25) | 0.68 (0.38, 1.19) | 0.55 (0.27, 1.13) |
| East Midlands | 1.78 (1.11, 2.75) | 1.99 (1.08, 3.37) | 2.13 (1.02, 3.90) |
| West Midlands | 2.05 (1.30, 3.18) | 2.24 (1.28, 3.76) | 2.35 (1.21, 4.18) |
| East of England | 0.74 (0.40, 1.34) | 0.92 (0.42, 1.99) | 1.14 (0.43, 2.83) |
| London | 1.34 (0.81, 2.20) | 1.65 (0.85, 3.07) | 1.98 (0.88, 4.04) |
| South East | 0.89 (0.56, 1.41) | 1.14 (0.62, 2.06) | 1.44 (0.67, 2.92) |
| South West | 0.96 (0.60, 1.56) | 1.35 (0.72, 2.48) | 1.84 (0.85, 3.80) |

Methodology

Prevalence estimates were generated by the Cambridge real-time model on 4 December 2020 using data up to 28 November 2020.

The percentage prevalence of COVID-19 infections in the regional populations are rated using the following scale:

- Low prevalence: less than 0.5%
- Medium prevalence: 0.5% to, but not including, 2%
- High prevalence: 2% and above.

These estimates are subject to, sometime significant, revision on a weekly basis. The underpinning model relies on death data which is subject to a reporting lag. In the weeks surrounding the implementation and relaxation of restrictions, it often takes a while for the system to settle, to account for the data lag and changes in mobility patterns. All prevalence estimates are reported as percentages, the values in parentheses represent the 5th and 95th percentiles respectively.

Further details on the Cambridge real-time model can be found https://www.mrc-bsu.cam.ac.uk/tackling-covid-19/nowcasting-and-forecasting-of-covid-19/

Percentage prevalence of COVID-19 across England and Government Office regions - charts Data generated 11 December 2020 by PHE Joint Modelling Cell

Prevalence estimates were generated by the Cambridge realtime model on **4 December 2020** using data up to **28 November 2020**.

These estimates are subject to, sometime significant, revision on a weekly basis. The underpinning model relies on death data which is subject to a reporting lag. In the weeks surrounding the implementation and relaxation of restrictions, it often takes a while for the system to settle, to account for the data lag and changes in mobility patterns. Further details on the real-time model can be found here.

Prevalence estimates set against the prevalence boundaries.

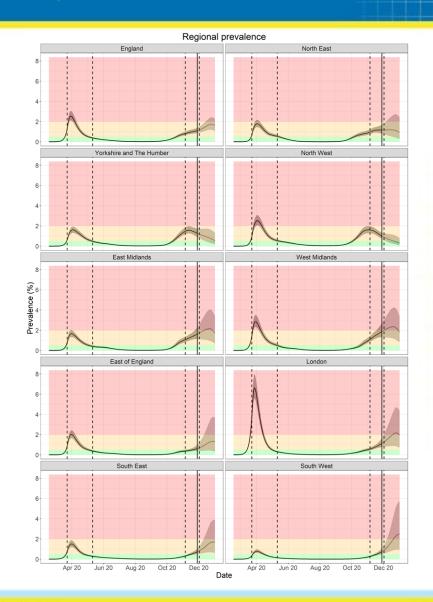
Solid line shows the point prevalence estimates, with the grey boundary covering the 5th to 95th centile range.

The solid vertical line indicates the cut off date for data that are used in the real-time model.

The point prevalence and range are faded after this date, indicating that the results are then projections.

The dashed vertical lines indicate the time at which national measures were implemented.

Please note that weekly estimates are subject to revision.



Estimated Prevalence by Region

ONS Coronavirus (COVID-19) Infection Survey (11 December)

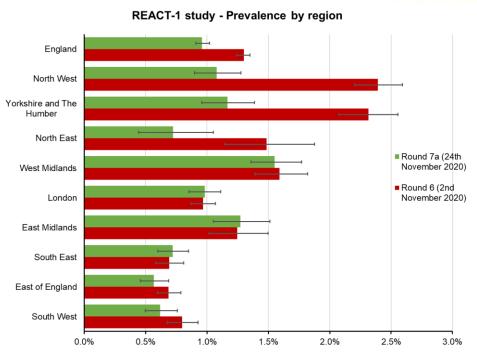
Over the most recent week, the percentage of people testing positive has decreased in all regions; rates are highest in the North East, the North West and Yorkshire and The Humber. Caution should be taken in over-interpreting any small movements, particularly if rates are already at a high level.

ONS (COVID-19) Infection Survey- Prevalence by region England North West Yorkshire and The Humber North East West Midlands 02-Dec-20 London ■ 25 November 2020 East Midlands South East East of England South West 1.5% 2.0% 0.0% 0.5% 1.0% 2.5%

Coronavirus (COVID-19) Infection Survey, UK: 11 December 2020

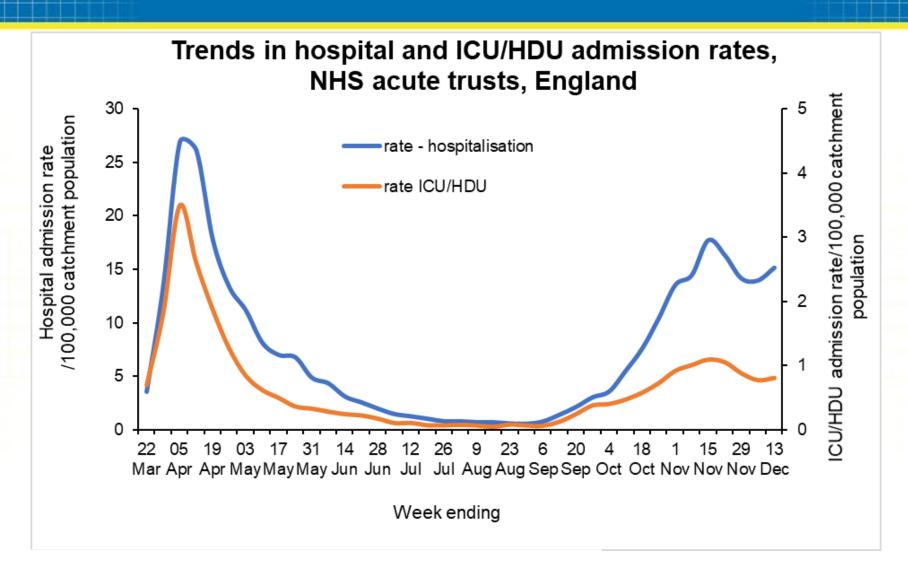
REACT-1 round 7 interim report (30 November)

The national trends were driven mainly by reductions in higher-prevalence northern regions, with prevalence approximately unchanged in the Midlands and London, and smaller reductions in southern lower-prevalence regions.

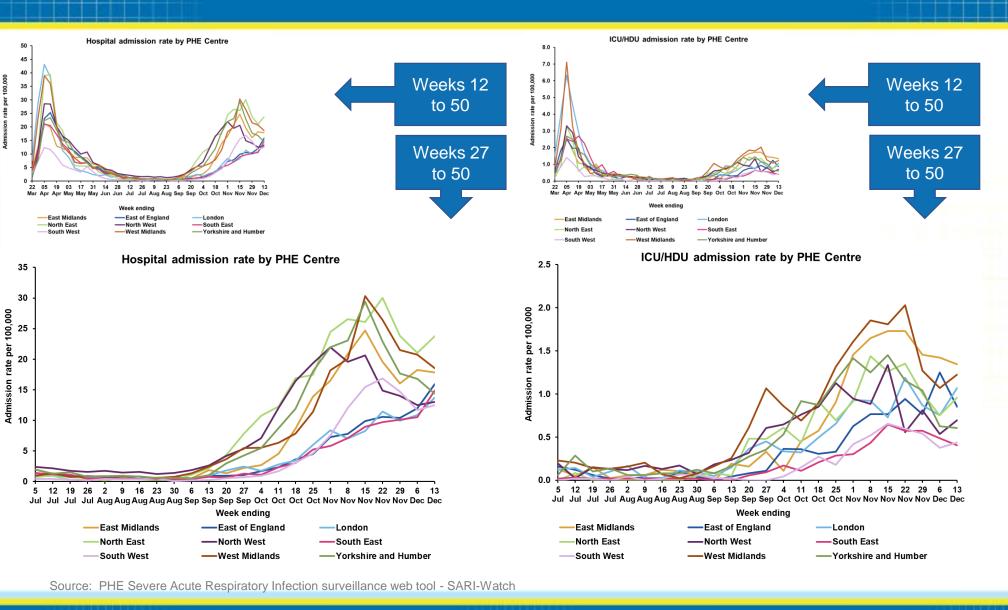


REACT-1 round 7 interim report: fall in prevalence of swab-positivity in England during national lockdown 30 November 2020

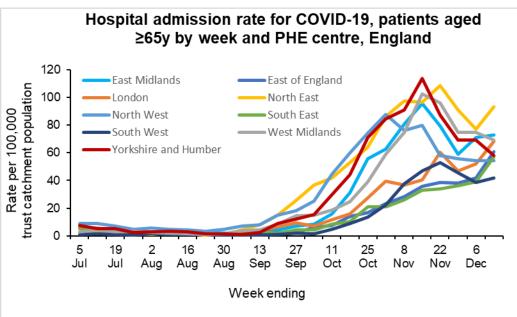
Hospitalisations national trends

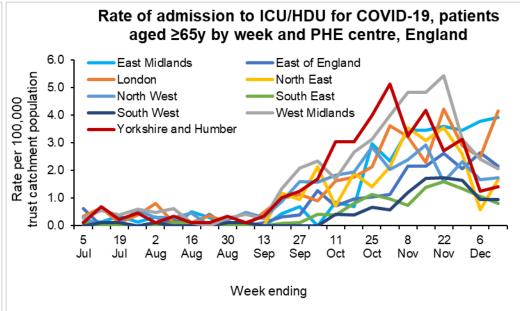


Hospitalisations by PHE Centre

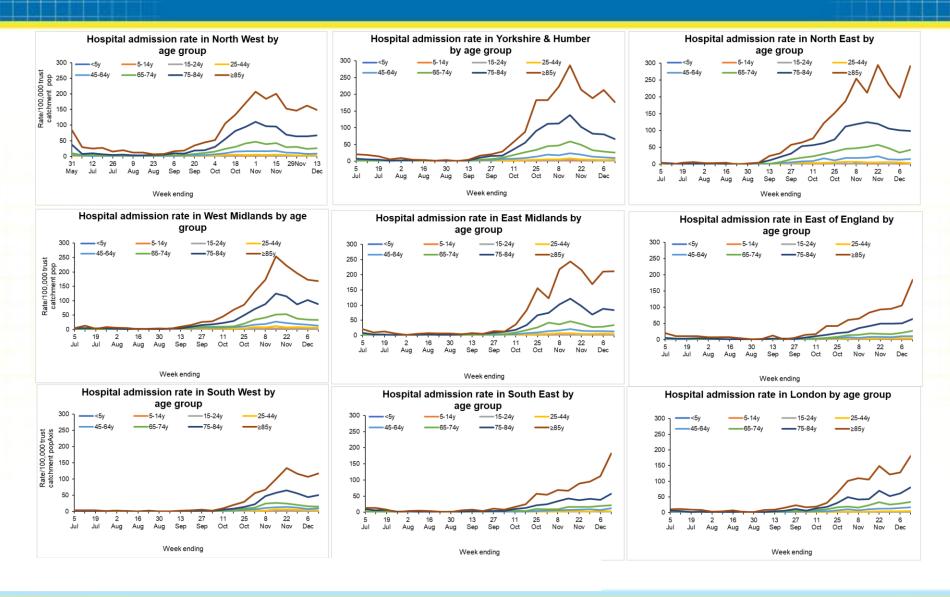


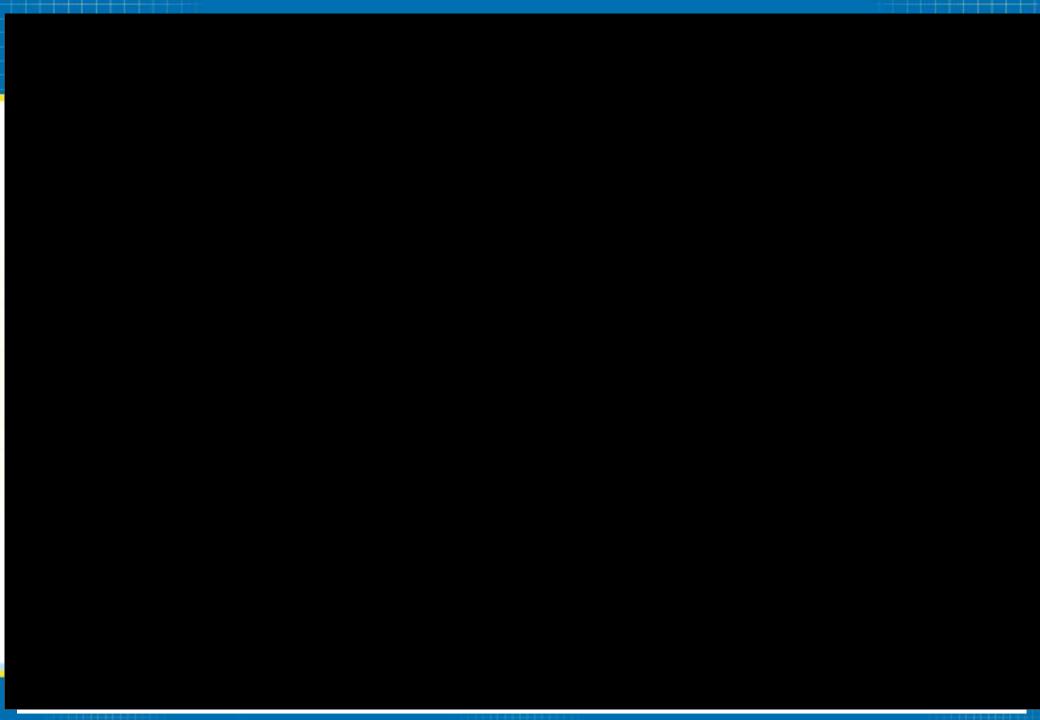
Hospitalisations by PHE Centre and age 65 years and over





Hospitalisations by PHE Centre and age



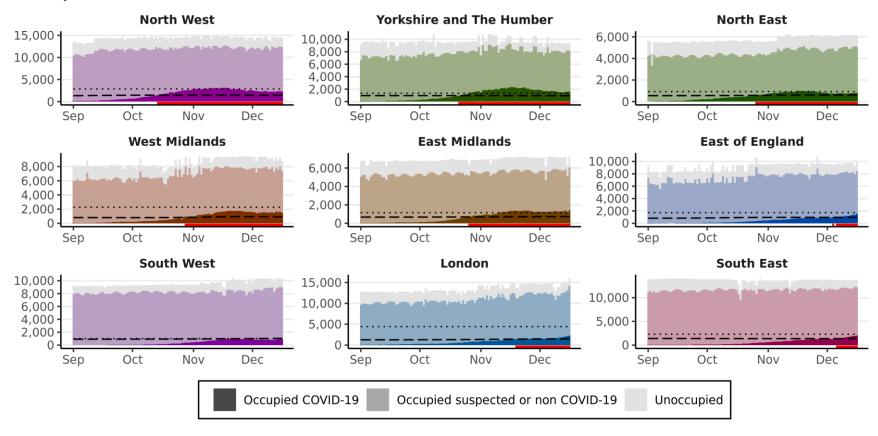




Bed occupancy and capacity by region - general and acute beds

Total bed occupancy and capacity by region

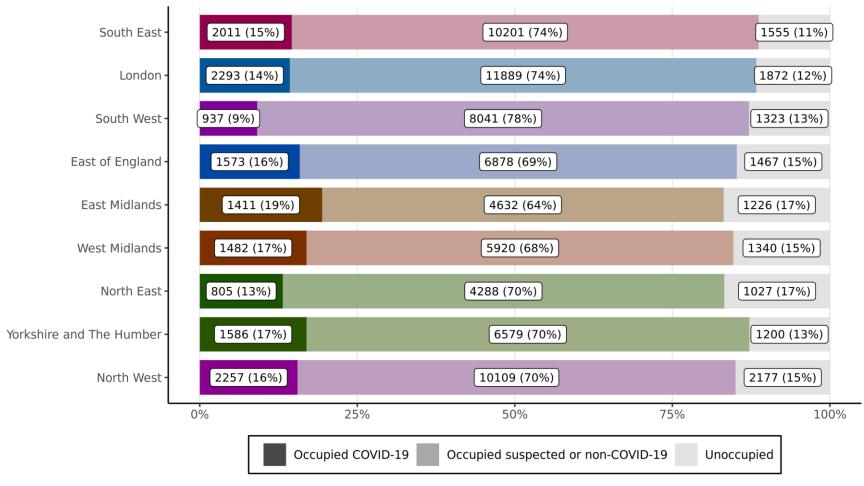
Dotted line shows 'spring peak value', i.e. highest daily COVID-19 bed occupancy recorded between 02 April 2020 and 01 June 2020. Solid bar above axis indicates when daily recorded COVID-19 bed occupancy is above 10% of daily available capacity, which is approximately shown by the dashed line.



Source: NHS England & Improvement COVID-19 Hospital Activity Data, from 02 April 2020 to 16 December 2020. Produced by Joint Biosecurity Centre.

Bed occupancy and capacity by region - general and acute beds





Source: NHS England & Improvement COVID-19 Hospital Activity Data. Produced by Joint Biosecurity Centre.



NHS 111 'potential COVID-19' calls NHS 111 'potential COVID-19' calls, alarms over the past 7 days (9 Dec 2020 to 15 Dec 2020)

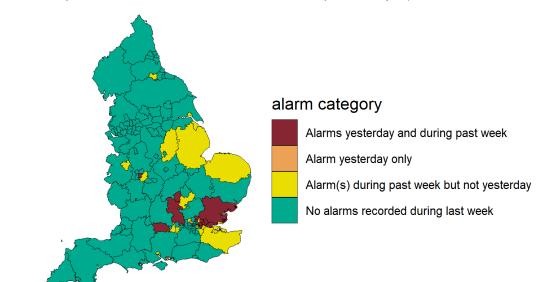
The alarms are intended to give early warning of local authorities where rates are higher than the national average. Due to a lack of historical data it is not yet possible to take into account any systematic bias which may result in one authority consistently recording above average rates independently of the underlying incidence of COVID-19.

| | Number of | |
|-----------------------------|-------------|---|
| | alarms in | |
| Area | past 7 days | Alarm category |
| Essex | | Alarms yesterday and during past week |
| Buckinghamshire | | Alarms yesterday and during past week |
| Enfield | | Alarms yesterday and during past week |
| Havering | | Alarms yesterday and during past week |
| Milton Keynes | | Alarms yesterday and during past week |
| Newham | | Alarms yesterday and during past week |
| Redbridge | | Alarms yesterday and during past week |
| Tower Hamlets | | Alarms yesterday and during past week |
| Barking and Dagenham | | Alarms yesterday and during past week |
| Thurrock | | Alarms yesterday and during past week |
| Greenwich | | Alarms yesterday and during past week |
| Hammersmith and Fulham | | Alarms yesterday and during past week |
| Haringey | | Alarms yesterday and during past week |
| Sandwell | | Alarms yesterday and during past week |
| West Berkshire | | Alarms yesterday and during past week |
| Brent | | Alarm yesterday only |
| Portsmouth | | Alarm yesterday only |
| Waltham Forest | | Alarm(s) during past week but not yesterday |
| Bexley | | Alarm(s) during past week but not yesterday |
| Medway | | Alarm(s) during past week but not yesterday |
| Nottinghamshire | | Alarm(s) during past week but not yesterday |
| Southend-on-Sea | | Alarm(s) during past week but not yesterday |
| Southwark | | Alarm(s) during past week but not yesterday |
| Wokingham | | Alarm(s) during past week but not yesterday |
| Birmingham | | Alarm(s) during past week but not yesterday |
| Bracknell Forest | | Alarm(s) during past week but not yesterday |
| Bromley | | Alarm(s) during past week but not yesterday |
| Central Bedfordshire | | Alarm(s) during past week but not yesterday |
| Darlington | | Alarm(s) during past week but not yesterday |
| Harrow | | Alarm(s) during past week but not yesterday |
| Kent | | Alarm(s) during past week but not yesterday |
| Kingston upon Hull, City of | | Alarm(s) during past week but not yesterday |
| Lincolnshire | | Alarm(s) during past week but not yesterday |
| Norfolk | | Alarm(s) during past week but not yesterday |
| North East Lincolnshire | | Alarm(s) during past week but not yesterday |
| Southampton | | Alarm(s) during past week but not yesterday |
| Telford and Wrekin | | Alarm(s) during past week but not yesterday |
| | | |

NHS 111 'potential COVID-19' calls

The NHS 111 'potential COVID-19' syndromic indicator should be used to monitor trends in calls rather than numbers. These data are based on potential COVID-19 symptoms reported by callers and are not based on outcomes of tests for coronavirus.

NHS 111 potential COVID-19 calls, alarms over past 7 days (09/12/20 - 15/12/20)



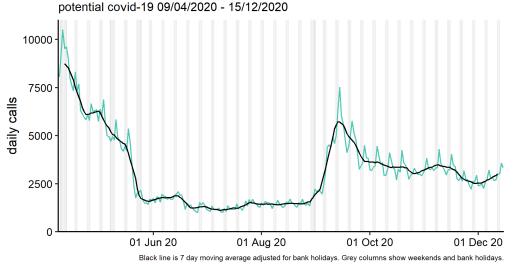
Alarm methodology

Populations are based on ONS estimates for mid-2019. Rates are number of calls per 100,000 people.

The 'expected' number of calls in a local authority is based on the average rate across England each day. The threshold is calculated as expected calls + 3 * sqrt(expected calls) i.e. assuming data follows a Poisson distribution.

An alarm is generated if call numbers are above the threshold.

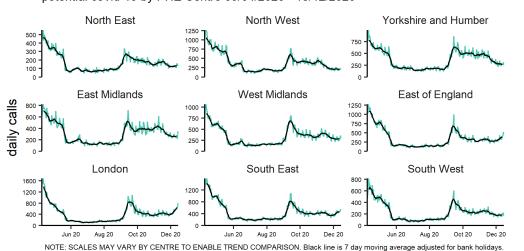
NHS 111 'potential COVID-19' calls Trends in daily NHS 111 'potential COVID-19' calls, national, PHE Centre and by age (to 15 Dec)



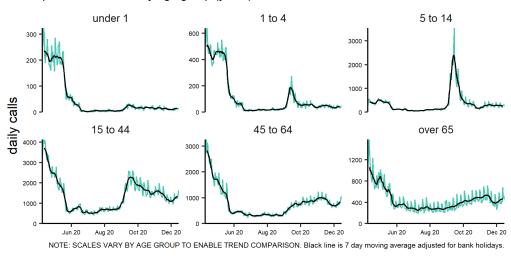
NHS 111 'potential COVID-19' calls

- These data are based on 'potential COVID-19' symptoms reported by callers
- These data are not based on outcomes of tests for coronavirus.
- Charts should be used to monitor trends (not the actual number of people symptomatic in the community)
- Daily and 7-day moving averages are shown in all charts
- PHE Centre charts should only be compared for trend, not number of calls (PHE Centre population size varies). Please note the different scales on these charts.

potential covid-19 by PHE Centre 09/04/2020 - 15/12/2020

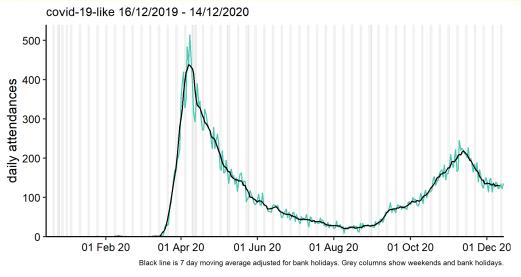


potential covid-19 by age group (years) 09/04/2020 - 15/12/2020



Further information and weekly NHS 111 reports containing potential COVID-19 call and online assessment surveillance data is available from the PHE Remote Health Advice bulletin.

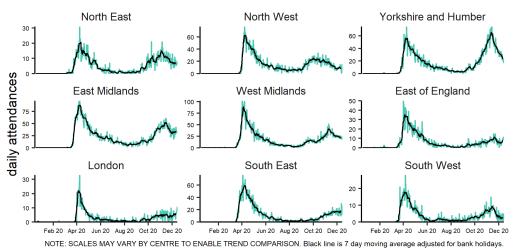
Emergency Department Syndromic Surveillance System COVID-19-like attendances Trends in daily ED COVID-19-like attendances, national, PHE Centre and by age (to 14 Dec)



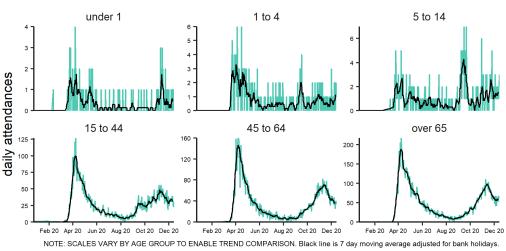
Emergency Department Syndromic Surveillance System (EDSSS) COVID-19-like attendances.

- EDs are included in surveillance based on the speed and frequency of reporting in the most recent 7 days
 - EDs included can change on a day by day basis
- These data are based on COVID-19-like primary diagnoses (patients may have multiple diagnoses listed)
- These data are not based on outcomes of tests for coronavirus
- Charts are an underestimation of the actual number of COVID-19-like attendances (as alternative diagnoses may have been entered)
- · Charts should be used to monitor trends
- PHE Centre charts should only be compared for trend, not number of attendances (PHE Centre population size and number of EDs included varies)
 - · Please note the different scales on the charts.
- Daily and 7-day moving averages are shown in all charts





covid-19-like by age group (years) 24/12/2019 - 14/12/2020



Further information and weekly EDSSS reports containing COVID-19-like attendance surveillance data is available from the PHE EDSSS bulletin.

Care homes report changes from 17 November 2020

- From the 17 November 2020, this report now includes all incidents (HPZone situation types exposure and issue in addition to 'outbreak' and 'cluster') in care homes reported to PHE local teams. This is necessitated by a change in recording practice by PHE local teams. In addition the analysis now matches reported incidents to positive laboratory test results in order to show the number of incidents with confirmed COVID-19 in residents.
- Some outbreaks are recorded in HPZone as being in care homes when in fact they are in another similar institution. The
 report now only includes those we recognise are in CQC-registered care homes; this is now possible due to changes
 in data entry at a local level



