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| **Region** | **Data source** | **Earliest date median Rt <1** | **Median Rt after first wave\* (90% CrI)** | **Minimum median Rt after first wave\* (date, median [90%CrI])** | **Maximum median Rt after first wave\* (date, median [90%CrI])** | **Number of days where median Rt crossed series median** | **Mean number of days between troughs\*\* (mean, 95% CI)** |
| **England** | *Test-positive cases* | 01 Apr | 0.97 (0.85-1.11) | 23 May (0.83 [0.78-0.89]) | 27 Aug (1.37 [1.31-1.44]) | 6 | 32 (21-44, n=4) |
| *Hospital admissions* | 30 Mar | 0.9 (0.81-0.98) | 08 Apr (0.75 [0.7-0.79]) | 27 Aug (1.24 [1.17-1.31]) | 8 | 27 (24-29, n=3) |
| *Deaths* | 31 Mar | 0.86 (0.8-0.98) | 27 Jun (0.82 [0.76-0.89]) | 19 Aug (1.06 [0.97-1.14]) | 4 | 40 (n=1) |
| **North East and Yorkshire** | *Test-positive cases* | 22 Apr | 0.96 (0.82-1.13) | 22 Jun (0.79 [0.73-0.85]) | 27 Aug (1.49 [1.4-1.58]) | 10 | 26 (23-29, n=5) |
| *Hospital admissions* | 01 Apr | 0.89 (0.82-1.01) | 09 Apr (0.81 [0.76-0.87]) | 27 Aug (1.27 [1.16-1.38]) | 8 | 31 (23-39, n=4) |
| *Deaths* | 07 Apr | 0.86 (0.77-1.02) | 04 Jun (0.78 [0.72-0.85]) | 19 Aug (1.11 [1-1.21]) | 2 | NA |
| **North West** | *Test-positive cases* | 05 Apr | 0.94 (0.85-1.19) | 26 May (0.82 [0.76-0.87]) | 27 Aug (1.45 [1.37-1.54]) | 4 | 34 (22-46, n=3) |
| *Hospital admissions* | 01 Apr | 0.91 (0.74-1.09) | 25 Jun (0.67 [0.6-0.75]) | 27 Aug (1.33 [1.22-1.44]) | 8 | 38 (30-47, n=3) |
| *Deaths* | 03 Apr | 0.88 (0.8-1.02) | 15 Jun (0.81 [0.73-0.88]) | 19 Aug (1.08 [0.97-1.17]) | 4 | NA |
| **Midlands** | *Test-positive cases* | 29 Mar | 0.96 (0.84-1.17) | 23 May (0.82 [0.75-0.88]) | 27 Aug (1.51 [1.41-1.61]) | 12 | 27 (25-28, n=5) |
| *Hospital admissions* | 29 Mar | 0.91 (0.76-1.03) | 07 Apr (0.7 [0.64-0.75]) | 27 Aug (1.2 [1.11-1.31]) | 6 | 26 (22-30, n=4) |
| *Deaths* | 31 Mar | 0.86 (0.78-0.99) | 24 Jun (0.78 [0.71-0.85]) | 19 Aug (1.11 [1.01-1.23]) | 8 | 33 (12-54, n=2) |
| **East of England** | *Test-positive cases* | 02 Apr | 0.96 (0.82-1.15) | 09 May (0.8 [0.74-0.86]) | 22 Aug (1.23 [1.15-1.31]) | 6 | 36 (34-38, n=3) |
| *Hospital admissions* | 02 Apr | 0.89 (0.81-0.99) | 28 Jul (0.8 [0.71-0.9]) | 27 Aug (1.11 [0.99-1.24]) | 8 | 36 (28-45, n=3) |
| *Deaths* | 02 Apr | 0.85 (0.78-0.94) | 06 Jul (0.8 [0.71-0.88]) | 02 Apr (0.99 [0.93-1.05]) | 6 | 38 (24-51, n=2) |
| **London** | *Test-positive cases* | 29 Mar | 0.98 (0.77-1.15) | 07 May (0.74 [0.68-0.8]) | 25 Aug (1.2 [1.13-1.27]) | 4 | 35 (27-43, n=2) |
| *Hospital admissions* | 29 Mar | 0.89 (0.73-1.04) | 08 Apr (0.67 [0.6-0.73]) | 27 Aug (1.23 [1.12-1.36]) | 4 | 47 (16-78, n=2) |
| *Deaths* | 26 Mar | 0.84 (0.7-1.02) | 13 Apr (0.68 [0.61-0.75]) | 19 Aug (1.07 [0.91-1.24]) | 4 | 41 (36-46, n=2) |
| **South East** | *Test-positive cases* | 05 Apr | 0.96 (0.82-1.15) | 28 May (0.82 [0.75-0.87]) | 22 Aug (1.2 [1.14-1.27]) | 4 | 35 (19-51, n=3) |
| *Hospital admissions* | 01 Apr | 0.89 (0.81-1.02) | 31 May (0.8 [0.73-0.87]) | 27 Aug (1.11 [1-1.21]) | 8 | 29 (23-34, n=3) |
| *Deaths* | 02 Apr | 0.86 (0.79-0.95) | 25 May (0.82 [0.76-0.9]) | 19 Aug (0.99 [0.87-1.12]) | 6 | 48 (32-64, n=2) |
| **South West** | *Test-positive cases* | 06 Apr | 1.02 (0.73-1.18) | 02 Jun (0.66 [0.58-0.74]) | 16 Jul (1.21 [1.12-1.3]) | 6 | 39 (21-58, n=3) |
| *Hospital admissions* | 01 Apr | 0.9 (0.76-1.02) | 03 Jun (0.7 [0.61-0.78]) | 27 Aug (1.02 [0.91-1.18]) | 6 | 44 (28-59, n=2) |
| *Deaths* | 04 Apr | 0.85 (0.72-1.06) | 03 Jun (0.72 [0.62-0.81]) | 07 Aug (1.05 [0.9-1.24]) | 2 | 43 (n=1) |
| 90%CrI = credible interval (quantiles around median); 95%CI = confidence interval (standard error around mean) | | | | | | | |
| \*End of first wave = earliest date Rt <1. Last estimate of Rt from cases and admissions: 28th August, from deaths: 19th August 2020 | | | | | | | |
| \*\*Troughs defined as local minima within a sequential fall and rise in the median Rt estimate | | | | | | | |