



Weekly Report on the Epidemiology of COVID-19 in Ireland

Week 53

Health Protection Surveillance Centre

COVID-19 Epidemiology Team, HPSC, 04/01/2021

Dates to note:

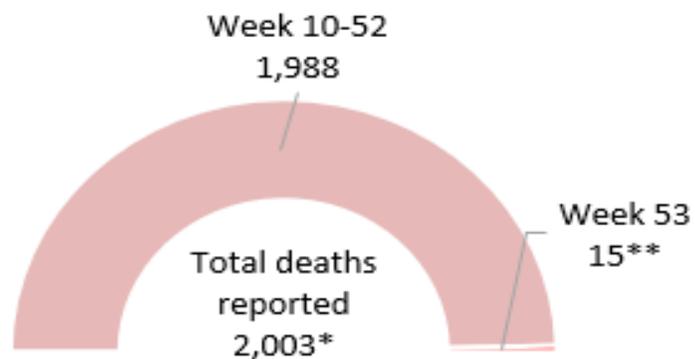
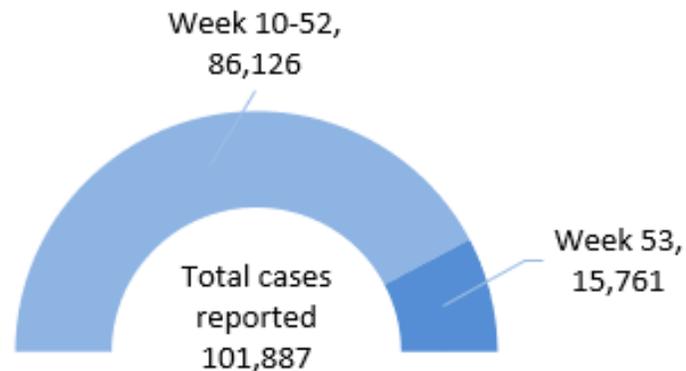
- Week 53 (27th December to 2nd January 2021)
- Week 32 (2nd to 8th August 2020)
- Week 10 (1st to 7th March 2020)– The beginning of the pandemic in Ireland

Due to the large volume of COVID-19 cases in recent days, the availability of surveillance data on cases is limited. Therefore some data in this report is incomplete

Note: The epidemiological weeks in this report, run from Sunday to Saturday, please refer to appendix 1 for a complete list of epidemiological weeks with start and end dates.

Note: Data were extracted from Computerised Infectious Disease Reporting (CIDR) system on 04/01/2021 and are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

Summary characteristics of COVID-19 cases notified in Ireland



* Total deaths reported include deaths from all case classifications (confirmed, probable and possible cases)

**The number of deaths relate only to cases notified and died in week 53. It does not include cases notified prior to week 53 and died in week 53.

| | Total (week 10-week 53) | | Week 53 | |
|---|-------------------------|---------|---------|---------|
| | Number | Percent | Number | Percent |
| Total number of confirmed cases | 101,887 | | 15,761 | |
| Incidence rate of confirmed cases per 100,000 population | 2139.6 | | 331.0 | |
| Number of cases hospitalised | 6,230 | 6.11 | 322 | 2.04 |
| Number of cases admitted to ICU | 681 | 0.67 | <5 *** | 0.02 |
| Number of deaths among confirmed cases | 2,003 | 1.97 | 15** | 0.10 |
| Case fatality ratio (CFR %) | 1.97 | | 0.10 | |
| Incidence rate of confirmed deaths per 100,000 population | 42.06 | | 0.32 | |
| Number of cases associated with clusters | 45,095 | 44.26 | 323 | 2.05 |
| Number of imported cases | 709 | 0.70 | 5 | 0.03 |
| Number of cases in healthcare workers | 13,398 | 13.15 | 67 | 0.43 |
| Males | 48,526 | 47.63 | 7690 | 48.79 |
| Females | 53,265 | 52.28 | 8036 | 50.99 |
| M:F ratio | 0.91 | | 0.96 | |
| Median (years) | 38 | | 35 | |
| Mean age (years) | 40 | | 38 | |
| Age range (years) | 0 - 108 | | 0 - 100 | |

***The number of cases hospitalised and admitted to ICU relate only to cases notified and admitted to hospital or ICU in week 53. It does not include cases notified prior to week 53 and admitted to hospital or ICU in week 53.

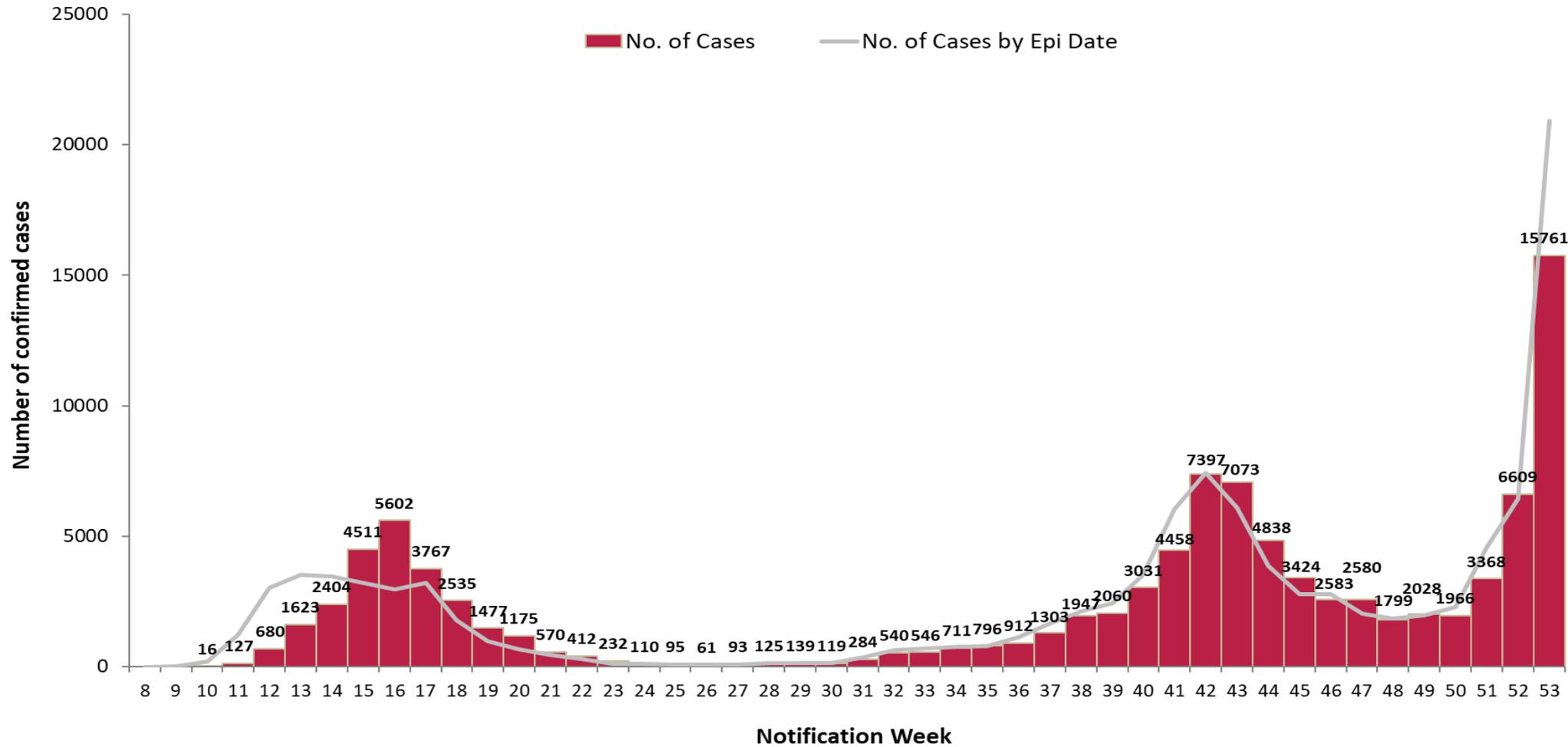


Figure 1: Number of confirmed COVID-19 cases by notification week and epidemiological week in Ireland between week 8 and week 53.

**Epidemiological date is based on the earliest of dates available on the case and taken from date of onset of symptoms, date of diagnosis, laboratory specimen collection date, laboratory received date, laboratory reported date or event creation date/notification date on CIDR. By using this date rather than event creation/ notification date, adjusts for any delays in testing/notification*

Between week 15 and 16 (05/04/2020 – 19/04/2020) the daily number of COVID-19 events notified in Ireland is inflated due to batch reporting of cases with specimen dates between from 19/03/2020 – 01/04/2020 in addition to real-time reporting of cases with contemporaneous specimen dates

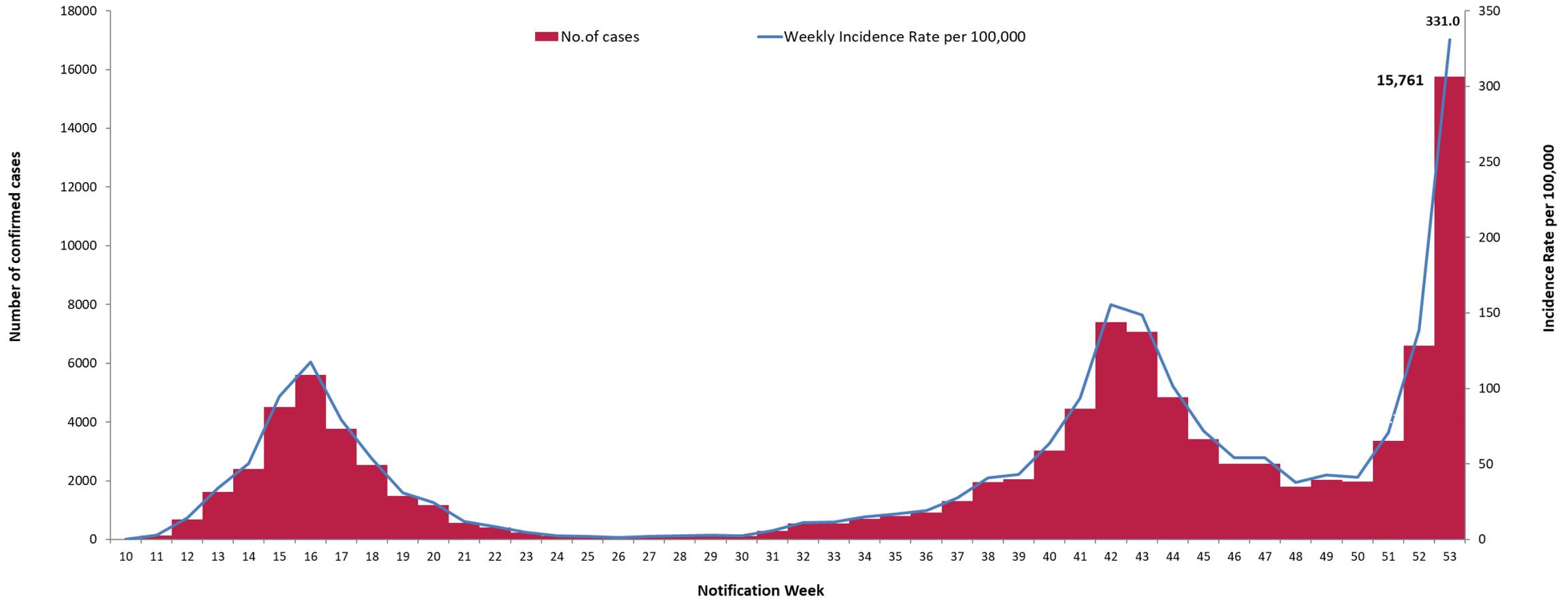
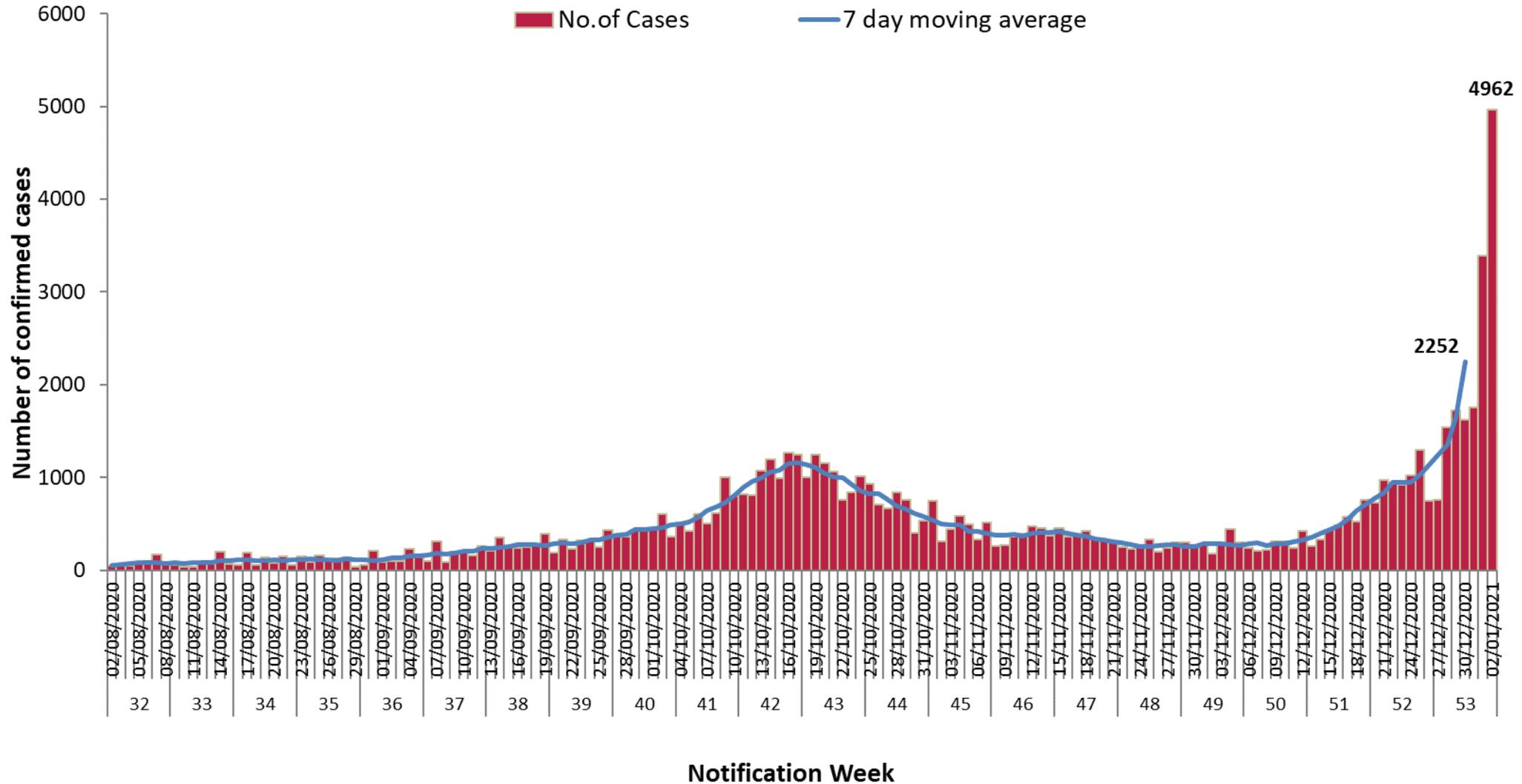


Figure 2: Number of confirmed COVID-19 cases by notification week and weekly incidence rate per 100,000 population in Ireland between week 10 and week 53.

**population data were taken from Census 2016*



*on the 04/12/2020 the number of COVID-19 cases notified in Ireland is inflated due to the inclusion of cases notified earlier in week 49 which were batch reported following an IT issue on 02/12/2020

Figure 3: Number of confirmed COVID-19 cases , and 7-day moving average, by notification date in Ireland between week 32 and week 53.

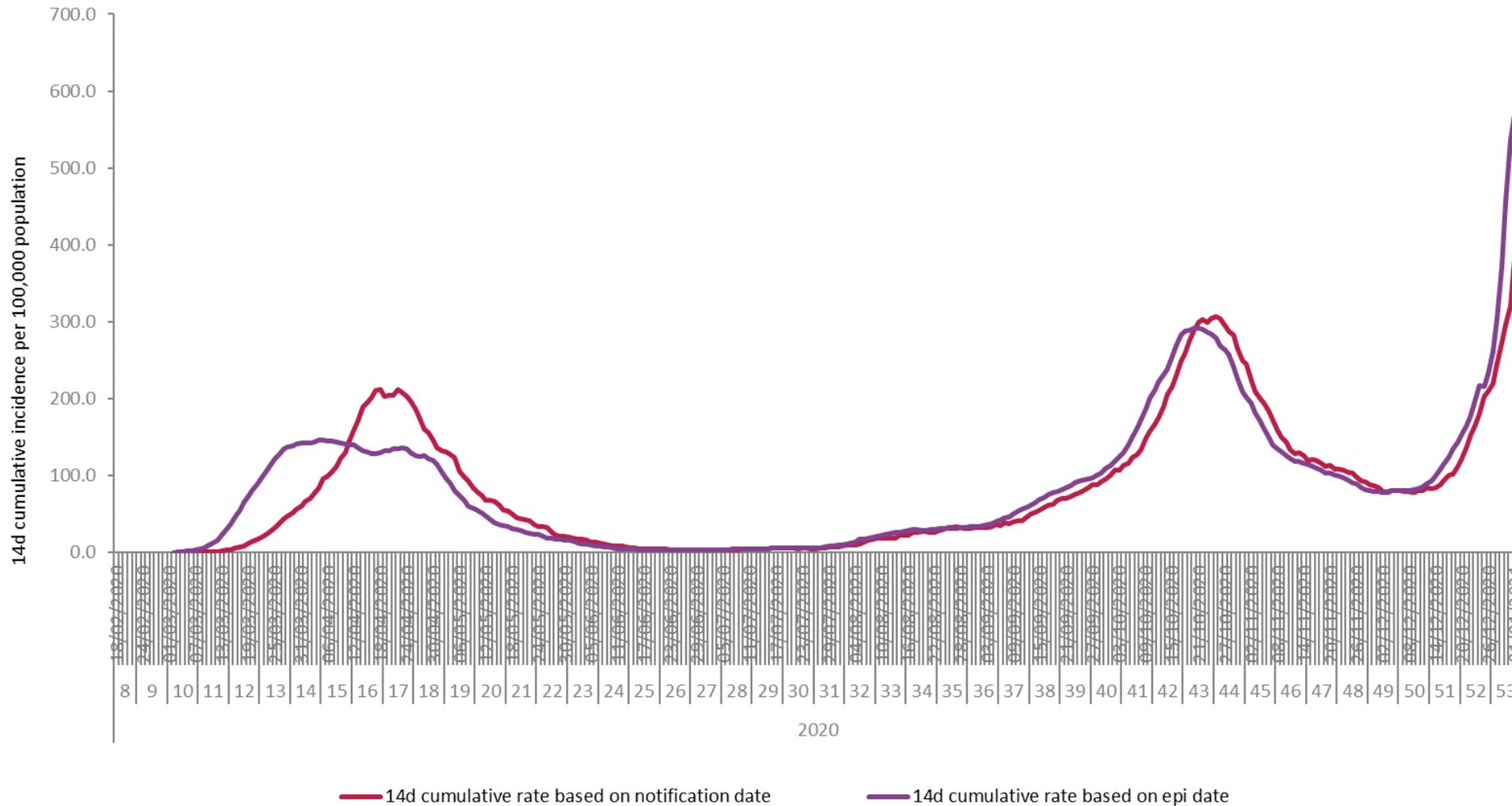


Figure 4a: Cumulative 14-day incidence rate of confirmed COVID-19 cases per 100,000 population notified in Ireland by notification and epidemiological date* between week 8 and week 53.

*Epidemiological date: is based on the earliest of dates available on the case and taken from date of onset of symptoms, date of diagnosis, laboratory specimen collection date, laboratory received date, laboratory reported date or event creation date/notification date on CIDR. By using this date rather than event creation/notification date, adjusts for any delays in testing/notification. Please note that the trend in cases by epidemiological date will show a lag for recent days and therefore should be interpreted with caution.

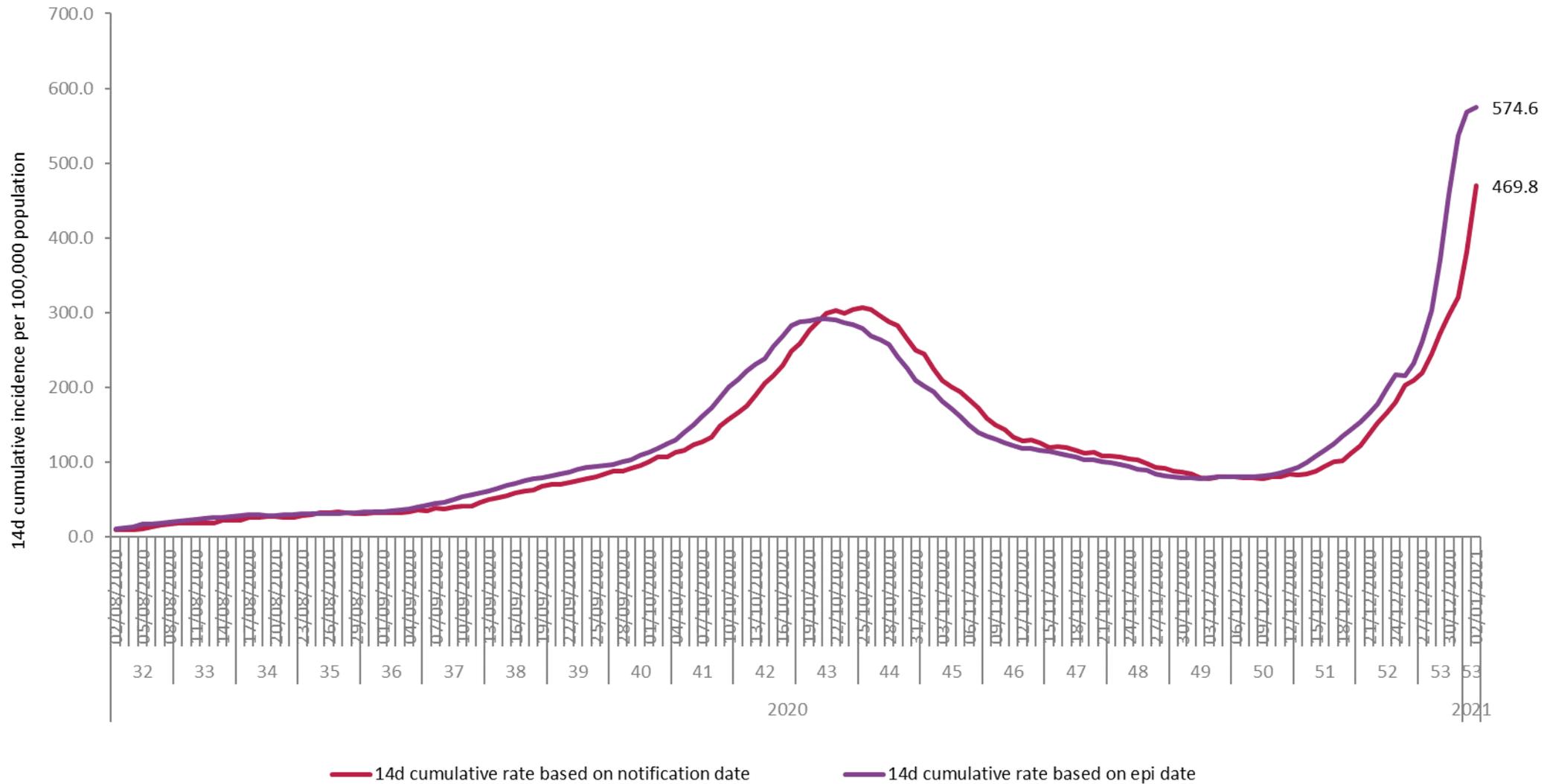


Figure 4b: Cumulative 14-day incidence rate of confirmed COVID-19 cases per 100,000 population notified in Ireland by notification and epidemiological date between week 32 and week 53.

| Characteristic | | Week 53 | Percent |
|---------------------------------------|--------------------|---------|---------|
| Total number of confirmed cases | | 15,761 | 100 |
| Sex | Male:Female ratio | 1.0 | |
| | Male | 7,690 | 48.8 |
| | Female | 8,036 | 51.0 |
| | Unknown | 35 | 0.2 |
| Age | Mean age (years) | 35 | |
| | Median age (years) | 38 | |
| | Age range (years) | 0 - 100 | |
| | 0-4 yrs | 392 | 2.5 |
| | 5-12 yrs | 689 | 4.4 |
| | 13-18 yrs | 931 | 5.9 |
| | 19-24 yrs | 2677 | 17.0 |
| | 25-34 yrs | 3157 | 20.0 |
| | 35-44 yrs | 2363 | 15.0 |
| | 45-54 yrs | 2233 | 14.2 |
| | 55-64 yrs | 1800 | 11.4 |
| | 65-74 yrs | 870 | 5.5 |
| | 75-84 yrs | 396 | 2.5 |
| | 85+ yrs | 251 | 1.6 |
| | Unknown | 2 | 0.0 |
| Underlying clinical conditions | Yes | 64 | 0.4 |
| | No | 454 | 2.9 |
| | Unknown | 15243 | 96.7 |
| Symptomatic* | Yes | 405 | 2.6 |
| | No | 98 | 0.6 |
| | Unknown | 15258 | 96.8 |

Table 1: Characteristics of confirmed COVID-19 cases notified in Ireland during week 53

*Symptom status is recorded at the time of test and is not updated; therefore, a proportion of the asymptomatic cases may subsequently develop symptoms however this will not be captured in the data.

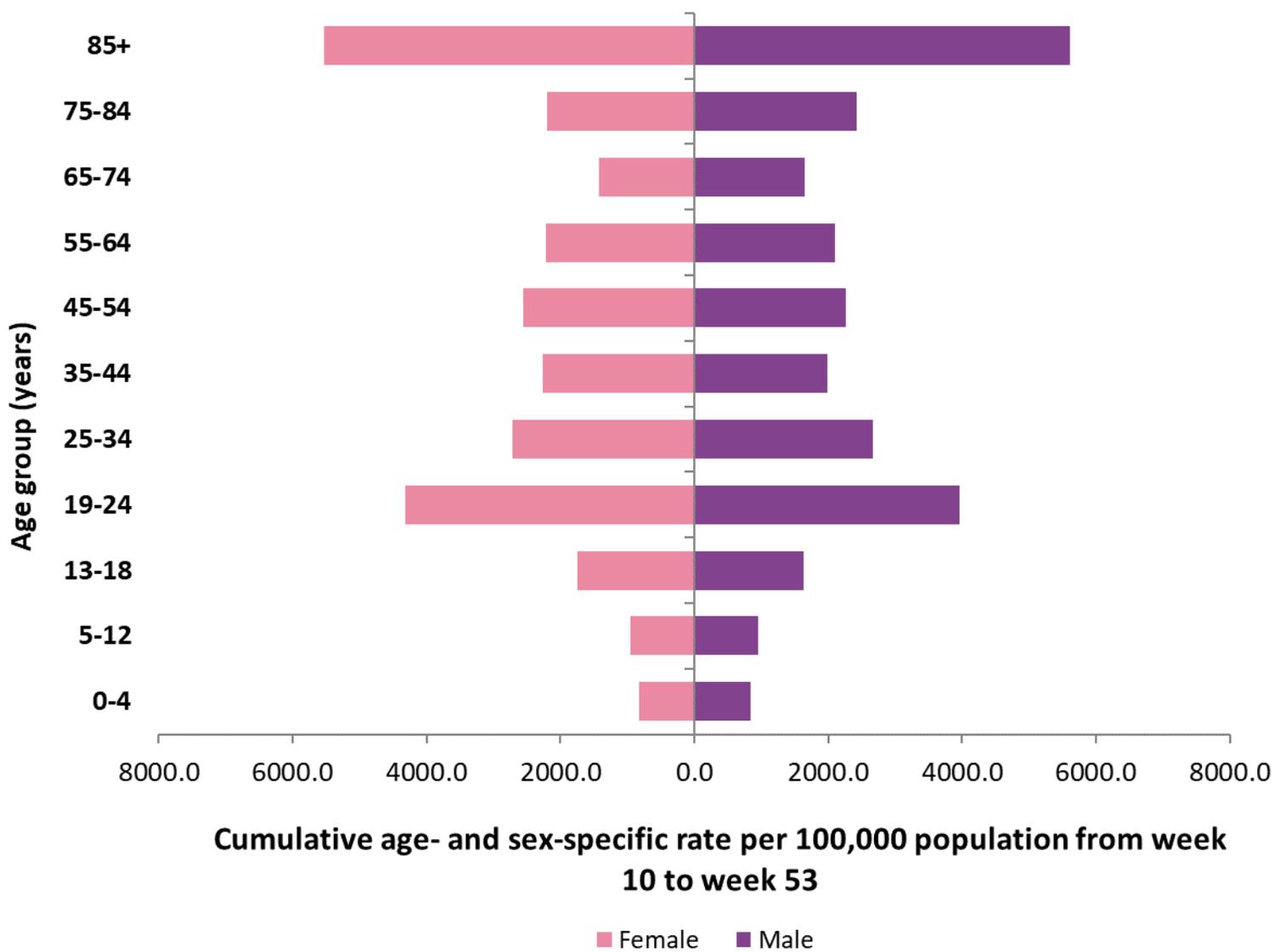


Figure 5a: Cumulative age- and sex-specific incidence rates of confirmed COVID-19 cases per 100,000 population notified in Ireland between week 10 and week 53.

(excluding 31 cases for whom age is unknown and 95 cases for whom sex is unknown and 1 case for whom both are unknown)

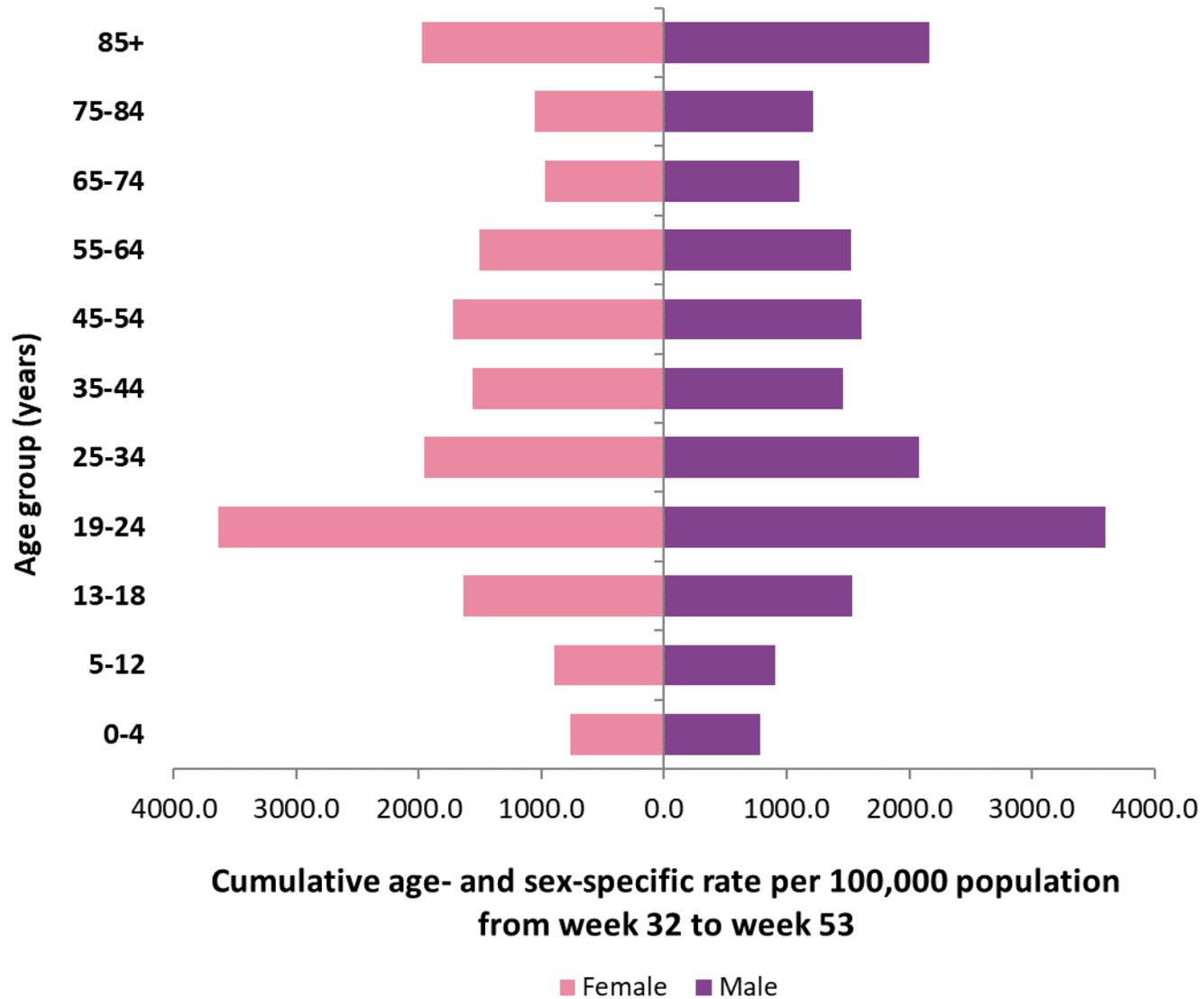


Figure 5b: Cumulative age- and sex-specific incidence rates of confirmed COVID-19 cases per 100,000 population notified in Ireland between week 32 and week 53.

(excluding 17 cases for whom age is unknown and 93 cases for whom sex is unknown)

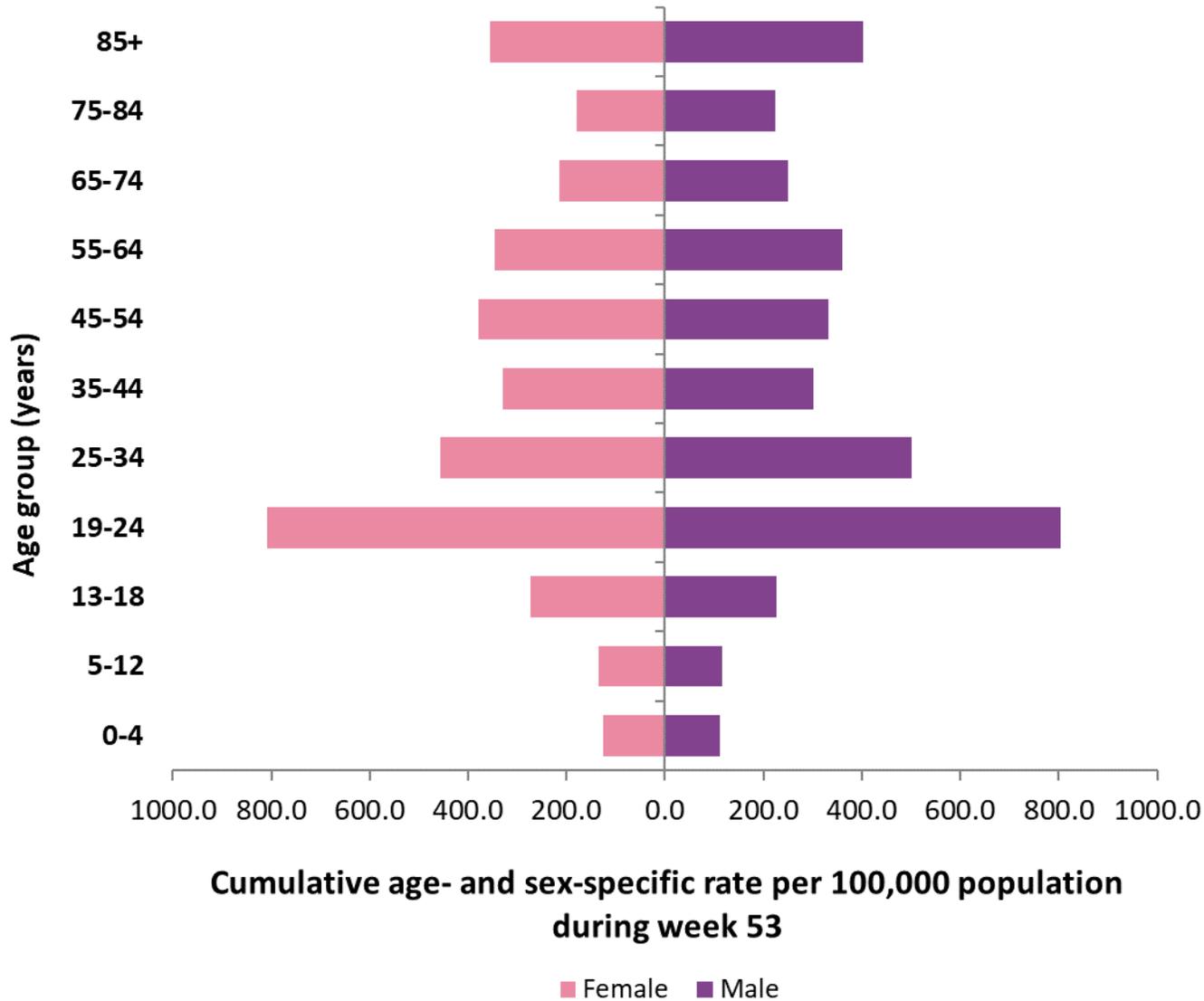


Figure 5c: Cumulative age- and sex-specific incidence rates of confirmed COVID-19 cases per 100,000 population notified in Ireland during week 53.

(excluding 2 cases for whom age is unknown and 35 cases for whom sex is unknown)

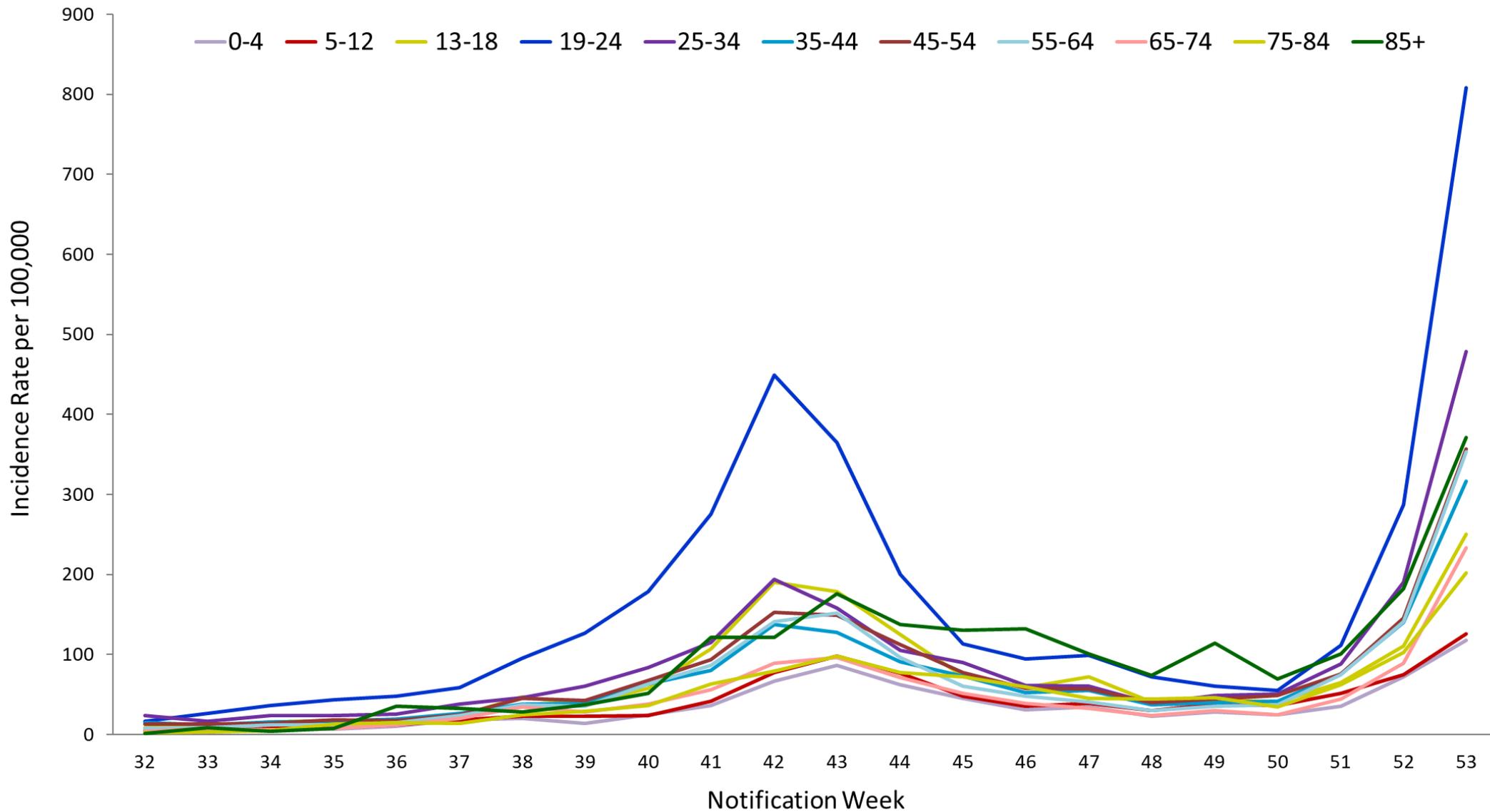


Figure 6a: Weekly age-specific incidence rates of confirmed COVID-19 cases per 100,000 population in Ireland between week 32 and week 53.

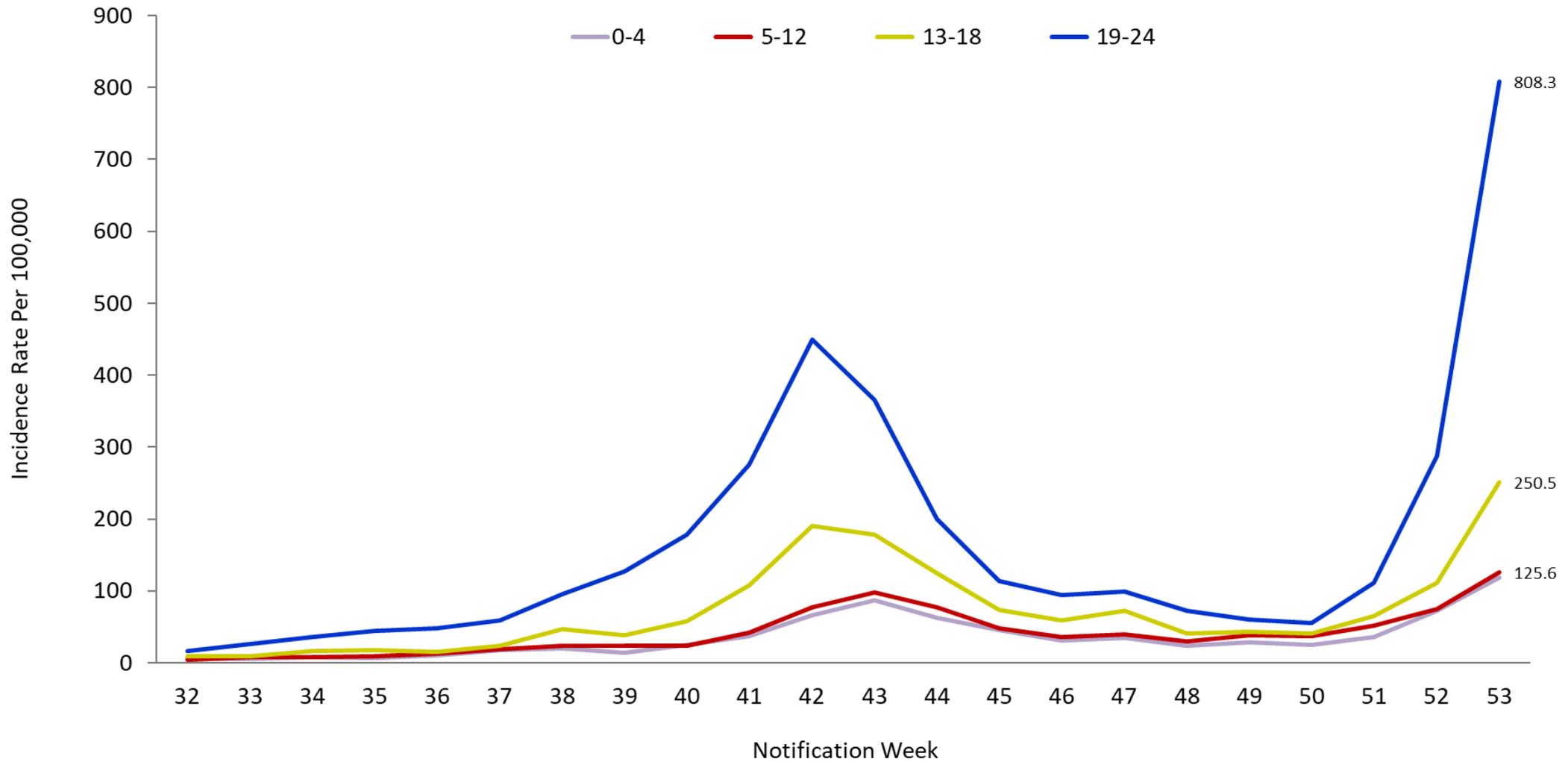


Figure 6b: Weekly age-specific incidence rates of confirmed COVID-19 cases per 100,000 population in Ireland between week 32 and week 53.

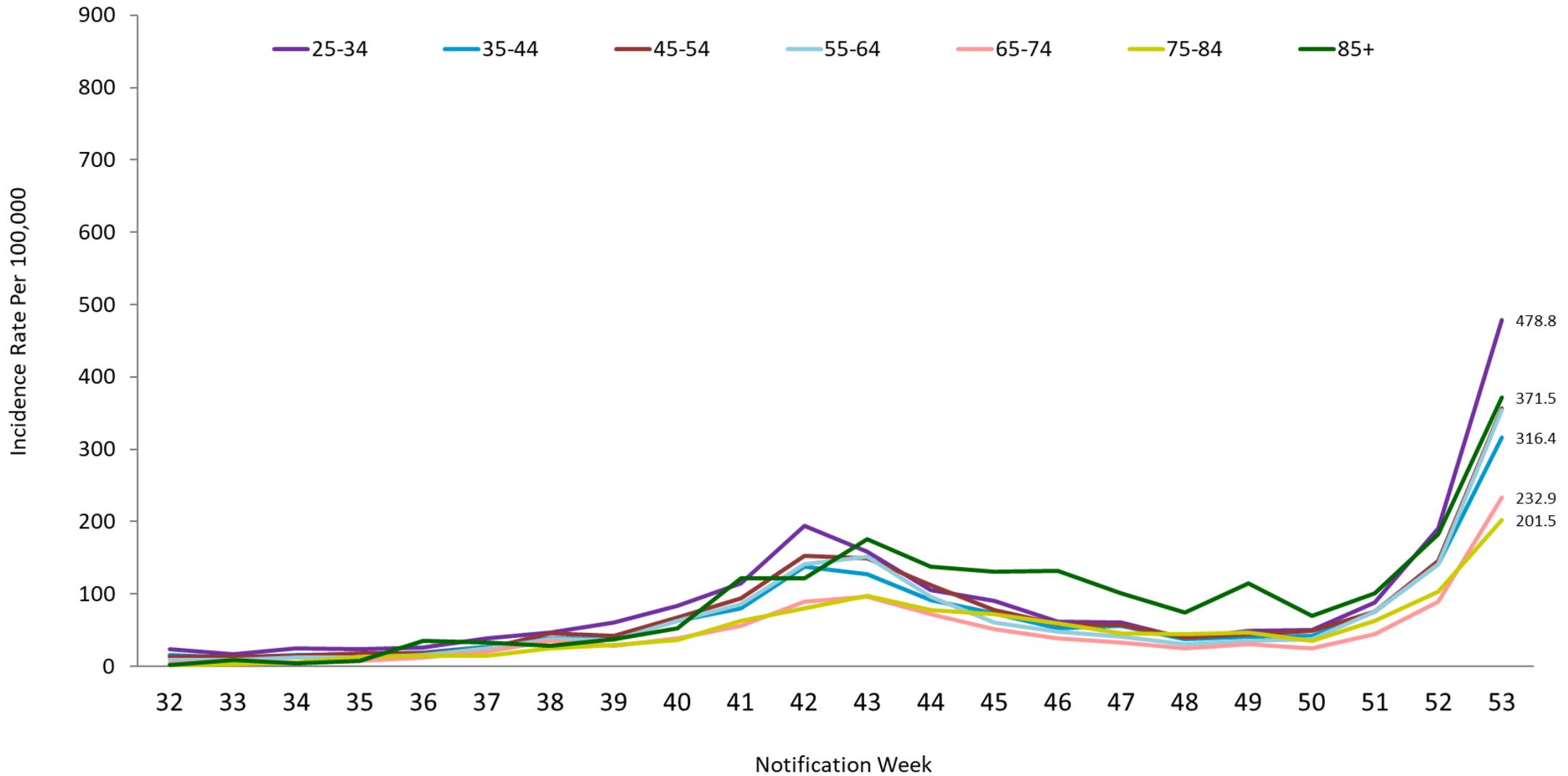


Figure 6c: Weekly age-specific incidence rates of confirmed COVID-19 cases per 100,000 population in Ireland between week 32 and week 53.

| Notification Week | Age Range | | | | | | | | | | | National |
|-------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0-4 | 5-12 | 13-18 | 19-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84 | 85+ | |
| 32 | 6.0 | 4.0 | 8.6 | 16.6 | 23.5 | 15.1 | 13.1 | 8.1 | 4.0 | 2.0 | 1.5 | 11.3 |
| 33 | 5.4 | 7.8 | 9.4 | 26.6 | 16.2 | 12.1 | 13.1 | 8.4 | 7.5 | 3.1 | 8.9 | 11.5 |
| 34 | 8.1 | 8.2 | 15.9 | 35.9 | 24.1 | 15.5 | 14.4 | 12.4 | 5.6 | 4.6 | 4.4 | 14.9 |
| 35 | 6.3 | 8.9 | 17.2 | 43.8 | 23.7 | 16.9 | 18.0 | 12.2 | 7.5 | 12.7 | 7.4 | 16.7 |
| 36 | 10.3 | 12.4 | 14.8 | 48.0 | 25.5 | 19.0 | 17.9 | 14.9 | 11.8 | 14.8 | 35.5 | 19.2 |
| 37 | 18.1 | 18.4 | 23.7 | 58.9 | 38.5 | 26.8 | 25.1 | 24.2 | 20.1 | 14.2 | 32.6 | 27.4 |
| 38 | 20.5 | 23.3 | 47.1 | 95.1 | 46.3 | 38.2 | 45.5 | 37.3 | 34.5 | 24.4 | 28.1 | 40.9 |
| 39 | 13.9 | 23.3 | 37.7 | 127.1 | 60.4 | 38.8 | 42.3 | 35.8 | 28.6 | 29.5 | 37.0 | 43.3 |
| 40 | 24.7 | 23.7 | 57.9 | 178.4 | 83.4 | 63.1 | 67.6 | 62.9 | 38.3 | 36.1 | 51.8 | 63.7 |
| 41 | 36.5 | 41.7 | 107.4 | 275.1 | 115.0 | 80.1 | 93.8 | 86.1 | 56.0 | 63.1 | 121.4 | 93.6 |
| 42 | 66.4 | 77.5 | 190.5 | 449.0 | 193.8 | 137.9 | 152.9 | 141.5 | 88.9 | 79.4 | 121.4 | 155.3 |
| 43 | 86.9 | 97.9 | 178.4 | 365.0 | 158.5 | 127.7 | 149.0 | 151.7 | 96.1 | 97.7 | 176.2 | 148.5 |
| 44 | 62.1 | 76.7 | 124.9 | 200.2 | 105.5 | 91.2 | 112.8 | 96.1 | 71.5 | 77.4 | 137.7 | 101.6 |
| 45 | 45.2 | 48.3 | 73.5 | 113.2 | 90.4 | 73.0 | 77.5 | 60.9 | 51.7 | 72.3 | 130.3 | 71.9 |
| 46 | 31.1 | 35.7 | 58.9 | 94.8 | 61.1 | 52.5 | 57.8 | 47.7 | 38.8 | 59.5 | 131.7 | 54.2 |
| 47 | 34.7 | 39.2 | 72.1 | 98.7 | 60.4 | 55.4 | 56.5 | 40.9 | 32.9 | 45.3 | 100.7 | 54.2 |
| 48 | 23.2 | 29.7 | 40.9 | 72.2 | 39.0 | 37.4 | 39.6 | 30.5 | 24.1 | 44.8 | 74.0 | 37.8 |
| 49 | 28.7 | 38.1 | 43.1 | 60.7 | 49.0 | 40.3 | 44.2 | 35.6 | 30.3 | 46.3 | 114.0 | 42.6 |
| 50 | 24.7 | 36.5 | 40.9 | 55.3 | 50.3 | 41.6 | 49.2 | 37.3 | 24.9 | 34.6 | 69.6 | 41.3 |
| 51 | 35.3 | 51.4 | 65.1 | 111.4 | 88.0 | 75.8 | 75.4 | 75.3 | 44.2 | 62.6 | 100.7 | 70.7 |
| 52 | 72.1 | 75.1 | 110.9 | 287.1 | 190.3 | 140.5 | 146.0 | 141.1 | 89.2 | 102.8 | 182.1 | 138.8 |
| 53 | 118.2 | 125.6 | 250.5 | 808.3 | 478.8 | 316.4 | 356.7 | 353.7 | 232.9 | 201.5 | 371.5 | 331.0 |

Figure 7: Heat map of weekly age-specific incidence rates of confirmed COVID-19 cases per 100,000 population in Ireland between week 32 and week 53.

| County | Cases | | M:F ratio | Median age | Incidence Rate per 100,000 |
|-----------|-------|------|-----------|------------|-------------------------------|
| | N | % | | (years) | |
| Monaghan | 527 | 3.3 | 0.9 | 35 | 858.5 |
| Louth | 998 | 6.3 | 1.0 | 37 | 774.3 |
| Limerick | 1265 | 8.0 | 1.0 | 36 | 649.1 |
| Donegal | 884 | 5.6 | 0.9 | 33 | 555.3 |
| Cavan | 387 | 2.5 | 1.1 | 33 | 508.0 |
| Sligo | 327 | 2.1 | 1.0 | 31 | 499.0 |
| Mayo | 650 | 4.1 | 1.2 | 34 | 498.1 |
| Meath | 721 | 4.6 | 0.9 | 37 | 369.7 |
| Longford | 142 | 0.9 | 1.7 | 31 | 347.4 |
| Clare | 409 | 2.6 | 0.9 | 31 | 344.2 |
| Offaly | 250 | 1.6 | 0.7 | 38.5 | 320.7 |
| Laois | 269 | 1.7 | 0.9 | 38 | 317.6 |
| Roscommon | 201 | 1.3 | 1.0 | 33 | 311.4 |
| Kilkenny | 305 | 1.9 | 0.9 | 37 | 307.4 |
| Kerry | 445 | 2.8 | 0.8 | 33 | 301.3 |
| Cork | 1542 | 9.8 | 0.9 | 36 | 284.0 |
| Wexford | 422 | 2.7 | 1.0 | 33.5 | 281.9 |
| Galway | 717 | 4.5 | 0.9 | 35 | 277.8 |
| Leitrim | 89 | 0.6 | 1.5 | 33 | 277.7 |
| Dublin | 3731 | 23.7 | 1.0 | 34 | 276.9 |
| Carlow | 155 | 1.0 | 0.7 | 36 | 272.3 |
| Westmeath | 213 | 1.4 | 0.8 | 33 | 239.9 |
| Waterford | 274 | 1.7 | 0.7 | 33 | 235.8 |
| Tipperary | 306 | 1.9 | 1.0 | 36 | 191.8 |
| Kildare | 366 | 2.3 | 0.9 | 33 | 164.5 |
| Wicklow | 166 | 1.1 | 0.8 | 39 | 116.6 |

Table 2: Characteristics of confirmed COVID-19 cases by county notified in Ireland, during week 53.

| | Carlow | Cavan | Clare | Cork | Donegal | Dublin | Galway | Kerry | Kildare | Kilkenny | Laois | Leitrim | Limerick | Longford | Louth | Mayo | Meath | Monaghan | Offaly | Roscommon | Sligo | Tipperary | Waterford | Westmeath | Wexford | Wicklow | National |
|----|--------|-------|-------|-------|---------|--------|--------|-------|---------|----------|-------|---------|----------|----------|-------|-------|-------|----------|--------|-----------|-------|-----------|-----------|-----------|---------|---------|----------|
| 32 | 10.5 | 6.6 | 10.1 | 2.6 | 10.1 | 4.8 | 0.8 | 0.7 | 107.4 | 2.0 | 39.0 | 3.1 | 5.1 | 0.0 | 3.9 | 0.8 | 7.7 | 1.6 | 103.9 | 1.5 | 6.1 | 1.3 | 0.0 | 1.1 | 13.4 | 2.8 | 11.3 |
| 33 | 35.1 | 0.0 | 23.6 | 2.4 | 7.5 | 9.8 | 2.7 | 2.0 | 76.9 | 12.1 | 20.1 | 0.0 | 18.5 | 2.4 | 5.4 | 0.8 | 9.7 | 9.8 | 32.1 | 3.1 | 4.6 | 11.3 | 1.7 | 0.0 | 2.0 | 5.6 | 11.5 |
| 34 | 33.4 | 1.3 | 10.1 | 3.5 | 5.0 | 19.1 | 0.8 | 2.0 | 71.5 | 21.2 | 16.5 | 0.0 | 21.0 | 7.3 | 7.0 | 1.5 | 7.7 | 4.9 | 11.5 | 6.2 | 0.0 | 44.5 | 11.2 | 2.3 | 12.0 | 4.2 | 14.9 |
| 35 | 36.9 | 11.8 | 16.8 | 4.4 | 15.7 | 26.3 | 2.3 | 2.7 | 31.9 | 6.0 | 16.5 | 0.0 | 22.1 | 9.8 | 7.0 | 0.8 | 10.8 | 29.3 | 20.5 | 13.9 | 1.5 | 38.9 | 6.9 | 5.6 | 19.4 | 10.5 | 16.7 |
| 36 | 12.3 | 10.5 | 13.5 | 4.2 | 6.3 | 33.5 | 7.4 | 8.1 | 34.6 | 17.1 | 15.3 | 15.6 | 38.0 | 19.6 | 11.6 | 3.1 | 10.8 | 13.0 | 25.7 | 4.6 | 1.5 | 20.7 | 18.9 | 7.9 | 10.0 | 15.4 | 19.2 |
| 37 | 7.0 | 5.3 | 18.5 | 3.9 | 20.1 | 55.1 | 10.9 | 6.1 | 23.4 | 12.1 | 22.4 | 49.9 | 27.2 | 36.7 | 41.1 | 7.7 | 13.3 | 13.0 | 30.8 | 13.9 | 1.5 | 5.6 | 35.3 | 28.2 | 17.4 | 28.8 | 27.4 |
| 38 | 29.9 | 17.1 | 21.0 | 18.6 | 63.4 | 80.0 | 17.4 | 12.9 | 36.4 | 11.1 | 21.3 | 15.6 | 20.0 | 9.8 | 61.3 | 17.6 | 20.5 | 26.1 | 33.4 | 20.1 | 15.3 | 11.3 | 51.6 | 21.4 | 17.4 | 42.1 | 40.9 |
| 39 | 12.3 | 30.2 | 26.9 | 43.5 | 121.2 | 71.9 | 36.8 | 10.2 | 40.0 | 16.1 | 10.6 | 12.5 | 12.8 | 29.4 | 43.4 | 11.5 | 26.7 | 66.8 | 23.1 | 55.8 | 10.7 | 9.4 | 15.5 | 29.3 | 8.7 | 26.7 | 43.3 |
| 40 | 31.6 | 59.1 | 73.2 | 61.0 | 143.2 | 89.4 | 51.9 | 34.5 | 54.8 | 29.2 | 64.9 | 18.7 | 52.3 | 102.8 | 32.6 | 19.9 | 40.0 | 110.8 | 51.3 | 105.4 | 44.3 | 32.0 | 18.9 | 36.0 | 32.1 | 50.6 | 63.7 |
| 41 | 28.1 | 279.6 | 186.0 | 96.5 | 201.6 | 83.1 | 100.0 | 74.5 | 86.7 | 43.3 | 68.5 | 81.1 | 106.7 | 105.2 | 76.0 | 52.1 | 134.3 | 205.3 | 82.1 | 79.0 | 114.4 | 37.0 | 44.8 | 87.9 | 79.5 | 36.5 | 93.6 |
| 42 | 123.0 | 530.4 | 133.8 | 177.8 | 142.0 | 139.2 | 172.1 | 140.1 | 158.2 | 100.8 | 106.3 | 149.8 | 142.6 | 124.8 | 111.7 | 98.8 | 328.1 | 166.2 | 102.6 | 142.5 | 175.5 | 72.1 | 84.4 | 226.4 | 192.4 | 87.1 | 155.3 |
| 43 | 158.1 | 438.5 | 126.2 | 166.9 | 178.4 | 114.4 | 200.0 | 150.3 | 147.4 | 72.6 | 131.1 | 99.9 | 148.8 | 141.9 | 172.2 | 147.1 | 313.8 | 203.6 | 88.5 | 131.7 | 253.3 | 61.4 | 118.8 | 185.9 | 118.9 | 62.5 | 148.5 |
| 44 | 100.1 | 156.2 | 101.8 | 137.0 | 142.6 | 102.1 | 97.7 | 68.4 | 92.1 | 55.4 | 81.5 | 15.6 | 116.0 | 97.9 | 119.5 | 95.0 | 147.1 | 71.7 | 60.3 | 74.4 | 103.8 | 68.3 | 86.1 | 108.1 | 52.8 | 59.7 | 101.6 |
| 45 | 61.5 | 47.3 | 58.9 | 60.6 | 152.6 | 80.1 | 47.7 | 92.8 | 48.5 | 84.7 | 93.3 | 25.0 | 100.1 | 53.8 | 55.9 | 78.2 | 94.3 | 70.0 | 51.3 | 82.1 | 79.3 | 53.3 | 62.0 | 84.5 | 30.1 | 37.2 | 71.9 |
| 46 | 31.6 | 55.1 | 36.2 | 29.8 | 122.5 | 58.2 | 38.4 | 34.5 | 42.2 | 45.3 | 42.5 | 53.1 | 99.0 | 51.4 | 95.4 | 36.8 | 52.8 | 55.4 | 84.7 | 83.7 | 33.6 | 48.3 | 92.1 | 84.5 | 19.4 | 31.6 | 54.2 |
| 47 | 45.7 | 42.0 | 53.9 | 48.8 | 108.0 | 59.9 | 25.2 | 25.7 | 41.8 | 51.4 | 21.3 | 18.7 | 105.2 | 41.6 | 111.0 | 43.7 | 73.8 | 52.1 | 35.9 | 86.8 | 39.7 | 42.6 | 59.4 | 31.5 | 18.0 | 30.2 | 54.2 |
| 48 | 31.6 | 19.7 | 14.3 | 24.5 | 111.2 | 43.7 | 20.2 | 21.0 | 21.1 | 83.6 | 29.5 | 3.1 | 60.5 | 44.0 | 75.3 | 36.8 | 24.1 | 31.0 | 21.8 | 23.2 | 21.4 | 44.5 | 42.2 | 13.5 | 7.3 | 52.7 | 37.8 |
| 49 | 73.8 | 40.7 | 19.4 | 13.4 | 112.4 | 50.8 | 31.0 | 12.2 | 27.4 | 85.7 | 26.0 | 12.5 | 80.6 | 46.5 | 83.0 | 43.7 | 25.6 | 97.7 | 37.2 | 24.8 | 15.3 | 44.5 | 21.5 | 10.1 | 12.0 | 68.1 | 42.6 |
| 50 | 84.3 | 68.3 | 12.6 | 12.9 | 107.4 | 42.3 | 28.7 | 8.1 | 29.7 | 112.9 | 69.7 | 12.5 | 51.3 | 97.9 | 93.1 | 65.9 | 34.4 | 39.1 | 30.8 | 20.1 | 33.6 | 38.2 | 45.6 | 16.9 | 24.7 | 35.8 | 41.3 |
| 51 | 110.7 | 106.3 | 14.3 | 39.1 | 154.5 | 82.2 | 23.3 | 99.5 | 54.8 | 84.7 | 105.1 | 12.5 | 99.5 | 46.5 | 142.8 | 50.6 | 73.3 | 86.3 | 34.6 | 21.7 | 59.5 | 27.0 | 58.5 | 28.2 | 143.6 | 32.3 | 70.7 |
| 52 | 114.2 | 89.3 | 105.2 | 123.4 | 271.4 | 166.8 | 100.0 | 150.3 | 113.3 | 182.4 | 85.0 | 56.2 | 227.8 | 41.6 | 166.8 | 78.9 | 105.1 | 202.0 | 48.7 | 66.6 | 132.8 | 72.1 | 101.6 | 75.5 | 205.0 | 80.7 | 138.8 |
| 53 | 272.3 | 508.0 | 344.2 | 284.0 | 555.3 | 276.9 | 277.8 | 301.3 | 164.5 | 307.4 | 317.6 | 274.6 | 649.1 | 347.4 | 774.3 | 498.1 | 369.7 | 858.5 | 320.7 | 311.4 | 500.5 | 191.8 | 235.8 | 239.9 | 281.9 | 116.6 | 331.0 |

Figure 8: Heat map of weekly incidence rates of confirmed COVID-19 cases per 100,000 population, by county, notified in Ireland between week 32 and week 53.

| | HSE-E | HSE-M | HSE-MW | HSE-NE | HSE-NW | HSE-SE | HSE-S | HSE-W | National |
|----|-------|-------|--------|--------|--------|--------|-------|-------|----------|
| 32 | 17.9 | 39.3 | 6.0 | 5.6 | 8.1 | 5.7 | 2.2 | 0.9 | 11.3 |
| 33 | 18.2 | 14.7 | 17.4 | 7.0 | 5.8 | 10.2 | 2.3 | 2.2 | 11.5 |
| 34 | 24.6 | 10.3 | 16.4 | 6.1 | 3.1 | 25.5 | 3.2 | 1.8 | 14.9 |
| 35 | 25.8 | 16.4 | 17.4 | 12.4 | 10.1 | 22.1 | 4.1 | 3.5 | 16.7 |
| 36 | 32.2 | 16.4 | 25.2 | 11.3 | 6.2 | 17.0 | 5.1 | 5.7 | 19.2 |
| 37 | 48.8 | 28.4 | 20.3 | 19.8 | 19.0 | 17.4 | 4.3 | 10.4 | 27.4 |
| 38 | 71.2 | 23.3 | 18.7 | 32.2 | 45.0 | 24.1 | 17.4 | 17.9 | 40.9 |
| 39 | 64.0 | 22.2 | 16.1 | 37.4 | 79.1 | 12.5 | 36.3 | 32.2 | 43.3 |
| 40 | 81.7 | 58.2 | 53.2 | 50.6 | 102.0 | 29.6 | 55.3 | 50.3 | 63.7 |
| 41 | 79.7 | 83.8 | 116.6 | 151.9 | 163.6 | 52.3 | 91.8 | 83.2 | 93.6 |
| 42 | 137.3 | 145.1 | 127.3 | 280.2 | 150.8 | 120.7 | 169.7 | 146.8 | 155.3 |
| 43 | 114.3 | 143.0 | 129.9 | 280.9 | 186.9 | 98.2 | 163.3 | 175.0 | 148.5 |
| 44 | 97.3 | 89.3 | 110.4 | 131.2 | 116.3 | 61.3 | 122.4 | 93.6 | 101.6 |
| 45 | 72.4 | 74.2 | 81.8 | 72.8 | 117.5 | 52.9 | 67.5 | 61.4 | 71.9 |
| 46 | 53.9 | 68.4 | 66.0 | 65.6 | 90.7 | 50.2 | 30.8 | 44.4 | 54.2 |
| 47 | 55.1 | 31.1 | 76.6 | 76.3 | 79.1 | 42.1 | 43.9 | 39.3 | 54.2 |
| 48 | 41.5 | 24.6 | 40.5 | 38.7 | 74.4 | 41.3 | 23.7 | 25.4 | 37.8 |
| 49 | 49.2 | 27.4 | 51.2 | 53.9 | 74.8 | 43.7 | 13.2 | 33.8 | 42.6 |
| 50 | 40.1 | 47.2 | 36.6 | 57.1 | 76.4 | 55.8 | 11.9 | 38.2 | 41.3 |
| 51 | 74.5 | 54.7 | 59.7 | 100.1 | 112.0 | 89.0 | 52.0 | 30.9 | 70.7 |
| 52 | 152.7 | 66.7 | 169.4 | 133.0 | 208.2 | 137.6 | 129.2 | 89.2 | 138.8 |
| 53 | 249.0 | 305.5 | 482.9 | 571.8 | 504.4 | 246.5 | 287.7 | 346.1 | 331.0 |

Notification Week

Figure 9: Weekly Incidence rates of confirmed COVID-19 cases per 100,000 population, by HSE area, notified in Ireland between week 32 and week 53.

| | CHO1 | CHO2 | CHO3 | CHO4 | CHO5 | CHO6 | CHO7 | CHO8 | CHO9 |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 32 | 6.9 | 0.9 | 6.0 | 2.2 | 5.7 | 3.7 | 37.0 | 21.8 | 5.0 |
| 33 | 5.4 | 2.2 | 17.4 | 2.3 | 10.2 | 5.7 | 29.0 | 11.1 | 13.5 |
| 34 | 3.1 | 1.8 | 16.4 | 3.2 | 25.5 | 9.1 | 36.9 | 8.7 | 20.3 |
| 35 | 13.5 | 3.5 | 17.4 | 4.1 | 22.1 | 18.8 | 31.4 | 12.6 | 23.7 |
| 36 | 8.2 | 5.7 | 25.2 | 5.1 | 17.0 | 27.1 | 35.7 | 13.6 | 31.2 |
| 37 | 15.6 | 10.4 | 20.3 | 4.3 | 17.4 | 37.6 | 40.0 | 26.2 | 65.8 |
| 38 | 37.1 | 17.9 | 18.7 | 17.4 | 24.1 | 55.6 | 65.7 | 30.2 | 87.1 |
| 39 | 68.5 | 32.2 | 16.1 | 36.3 | 12.5 | 52.5 | 56.8 | 27.9 | 79.3 |
| 40 | 96.1 | 50.3 | 53.2 | 55.3 | 29.6 | 74.9 | 72.9 | 46.8 | 95.9 |
| 41 | 194.5 | 83.2 | 116.6 | 91.8 | 52.3 | 56.6 | 80.3 | 97.7 | 93.3 |
| 42 | 228.7 | 146.8 | 127.3 | 169.7 | 120.7 | 91.3 | 144.4 | 195.1 | 157.5 |
| 43 | 240.2 | 175.0 | 129.9 | 163.3 | 98.2 | 80.6 | 114.9 | 202.3 | 134.5 |
| 44 | 118.3 | 93.6 | 110.4 | 122.4 | 61.3 | 67.9 | 94.5 | 113.4 | 118.6 |
| 45 | 97.6 | 61.4 | 81.8 | 67.5 | 52.9 | 49.1 | 63.3 | 76.4 | 97.2 |
| 46 | 79.0 | 44.4 | 66.0 | 30.8 | 50.2 | 51.2 | 54.7 | 69.0 | 54.7 |
| 47 | 68.5 | 39.3 | 76.6 | 43.9 | 42.1 | 45.9 | 51.3 | 61.0 | 65.0 |
| 48 | 57.8 | 25.4 | 40.5 | 23.7 | 41.3 | 55.3 | 31.8 | 34.9 | 44.1 |
| 49 | 72.6 | 33.8 | 51.2 | 13.2 | 43.7 | 66.0 | 34.2 | 38.3 | 56.0 |
| 50 | 69.8 | 38.2 | 36.6 | 11.9 | 55.8 | 47.8 | 31.5 | 52.5 | 45.2 |
| 51 | 108.1 | 30.9 | 59.7 | 52.0 | 89.0 | 73.9 | 51.4 | 78.6 | 101.1 |
| 52 | 186.3 | 89.2 | 169.4 | 129.2 | 137.6 | 178.8 | 129.6 | 99.3 | 163.0 |
| 53 | 565.8 | 346.1 | 482.9 | 287.7 | 246.5 | 261.0 | 189.1 | 421.8 | 309.8 |

Figure 10: Weekly Incidence rates of confirmed COVID-19 cases by CHO notified in Ireland between week 32 and week 53.

| | CCA1 | CCA2 | CCA3 | CCA4 | CCA5 | CCA6 | CCA7 | CCA8 |
|----|--------------|-------------------|-------------------|-------------------|-------------|-------------------|----------------------|--------------|
| | Dublin South | Dublin South East | Dublin South City | Dublin South West | Dublin West | Dublin North West | Dublin North Central | Dublin North |
| 32 | 5.9 | 2.4 | 4.7 | 6.2 | 3.2 | 4.8 | 5.8 | 4.6 |
| 33 | 4.4 | 6.5 | 5.3 | 10.6 | 5.8 | 13.5 | 12.3 | 14.3 |
| 34 | 7.3 | 15.4 | 11.3 | 17.4 | 36.7 | 23.1 | 34.3 | 9.6 |
| 35 | 25.0 | 20.2 | 32.7 | 29.8 | 33.5 | 32.8 | 22.6 | 17.0 |
| 36 | 16.9 | 48.5 | 32.7 | 38.5 | 41.2 | 29.9 | 31.7 | 32.0 |
| 37 | 22.8 | 58.2 | 49.4 | 47.9 | 51.5 | 85.3 | 60.2 | 53.6 |
| 38 | 35.3 | 84.9 | 70.0 | 92.6 | 83.7 | 117.5 | 83.5 | 64.8 |
| 39 | 33.1 | 97.0 | 57.4 | 72.1 | 70.2 | 82.4 | 95.1 | 67.5 |
| 40 | 54.4 | 116.4 | 67.4 | 90.1 | 93.3 | 111.3 | 119.7 | 69.5 |
| 41 | 33.8 | 98.6 | 60.7 | 65.3 | 113.3 | 106.5 | 113.2 | 71.0 |
| 42 | 57.3 | 122.9 | 93.4 | 118.7 | 215.7 | 222.1 | 150.1 | 110.4 |
| 43 | 50.0 | 125.3 | 73.4 | 95.7 | 140.3 | 168.1 | 142.3 | 103.0 |
| 44 | 48.5 | 92.2 | 62.0 | 105.7 | 126.2 | 137.8 | 107.4 | 110.0 |
| 45 | 25.7 | 80.8 | 48.7 | 74.0 | 95.3 | 117.0 | 95.1 | 82.6 |
| 46 | 38.9 | 82.5 | 57.4 | 47.9 | 81.1 | 73.2 | 60.8 | 36.3 |
| 47 | 32.3 | 72.8 | 36.0 | 67.7 | 68.2 | 72.3 | 100.3 | 38.2 |
| 48 | 38.2 | 69.5 | 34.0 | 44.1 | 35.4 | 43.8 | 64.0 | 32.4 |
| 49 | 41.9 | 80.8 | 32.7 | 38.5 | 44.4 | 60.2 | 69.2 | 44.8 |
| 50 | 29.4 | 75.2 | 30.7 | 27.3 | 42.5 | 34.7 | 62.1 | 43.6 |
| 51 | 47.8 | 141.5 | 46.7 | 44.7 | 62.4 | 106.0 | 134.6 | 77.2 |
| 52 | 127.9 | 321.7 | 119.4 | 134.9 | 171.9 | 173.9 | 241.3 | 107.7 |
| 53 | 196.2 | 463.2 | 217.4 | 206.3 | 198.3 | 327.5 | 416.0 | 232.3 |

Notification Week

Figure 11: Weekly Incidence rates of confirmed COVID-19 cases by Dublin Local Health Offices (LHOs) notified in Ireland between week 32 and week 53.

Note: Local health offices (LHOs) came into operation on 1st September 2005, replacing Community Care Areas (CCAs). LHO population denominators are used in this report rather than CCA population denominators. The LHO rates were calculated using Census 2016 LHO denominator data extracted from the HSE Health Atlas and are not a direct match to the corresponding CCAs.

Laboratory data for COVID-19 cases

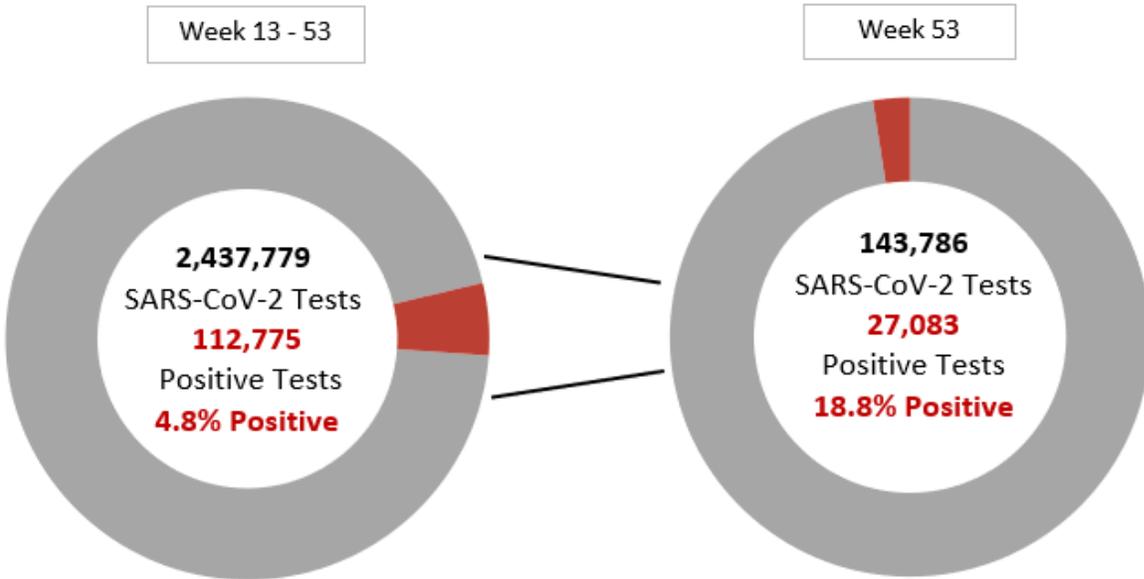


Figure 12a: Number of SARS-CoV-2 tests and positive tests* in Ireland between week 13 and week 53.

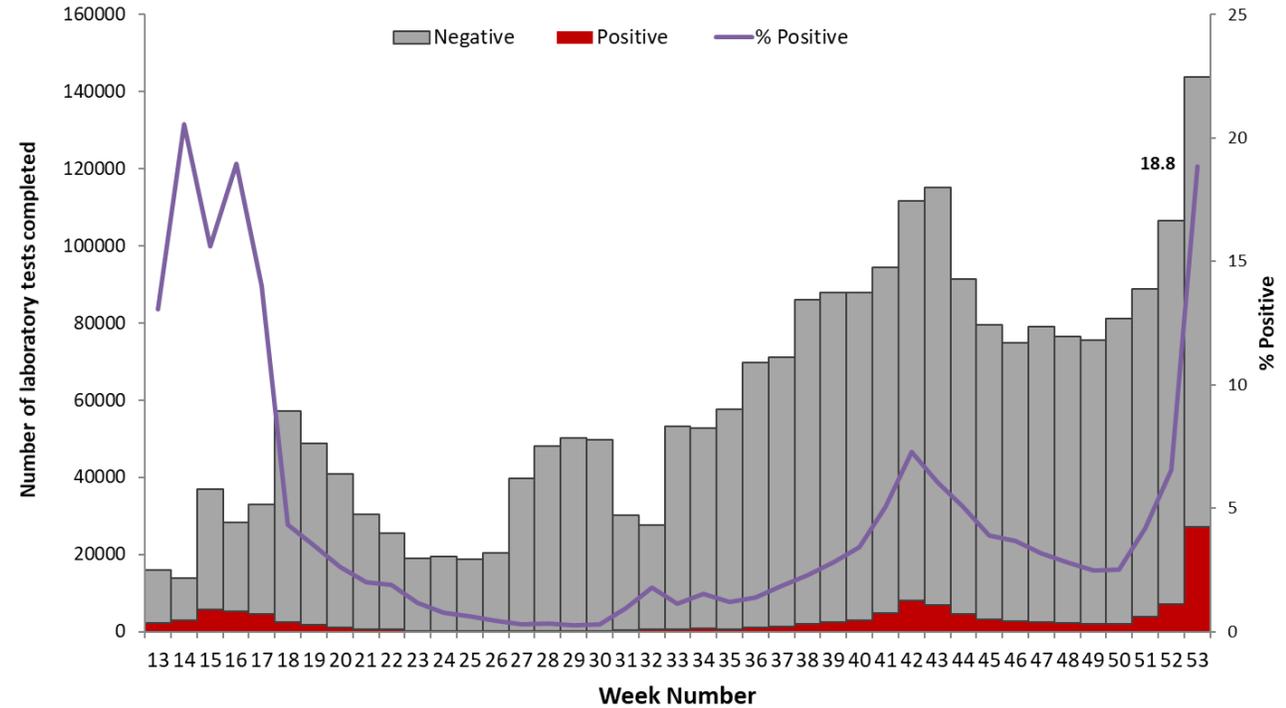


Figure 12b: Number of SARS-CoV-2 negative and positive tests* completed in Ireland between week 13 and week 53.

*positive test refers to all positive specimens and includes duplicates and individuals who were retested

Hospitalisations and ICU admissions among COVID-19 cases

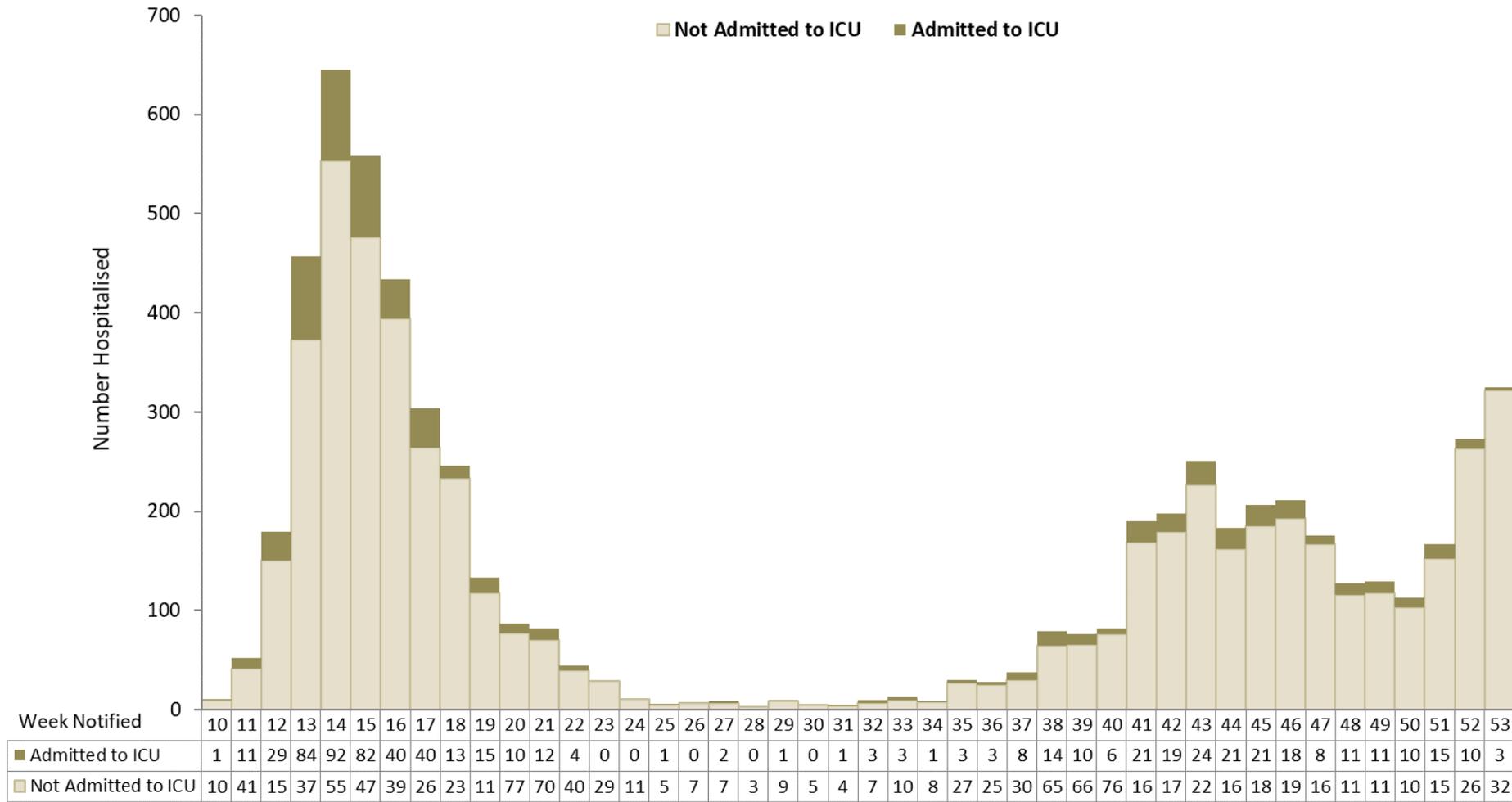


Figure 13: Number of hospitalised COVID-19 cases based on ICU admission status in Ireland between week 10 and week 53.*

*Please note that the most recent weeks may not yet reflect all admissions.

Deaths among COVID-19 cases

| | Number | Percent |
|--|----------|---------|
| Total number of deaths | 2,263 | |
| confirmed | 2,003 | 88.5 |
| probable | 95 | 4.2 |
| possible | 165 | 7.3 |
| Number hospitalised who died | 1041 | 46.0 |
| admitted to ICU who died | 159 | 7.0 |
| not admitted to ICU who died | 882 | 39.0 |
| Number of imported cases who died | 5 | 0.2 |
| Number of HCWs who died | 8 | 0.4 |
| Number with underlying conditions who died | 2,080 | 91.9 |
| Males who died | 1159 | 51.2 |
| M:F ratio | 1.05 | |
| Median age (years) | 83 | |
| Mean age (years) | 81 | |
| Age range (years) | 17 - 105 | |

Table 3: Summary of deaths in all COVID-19 cases notified in Ireland between week 10 and week 53.

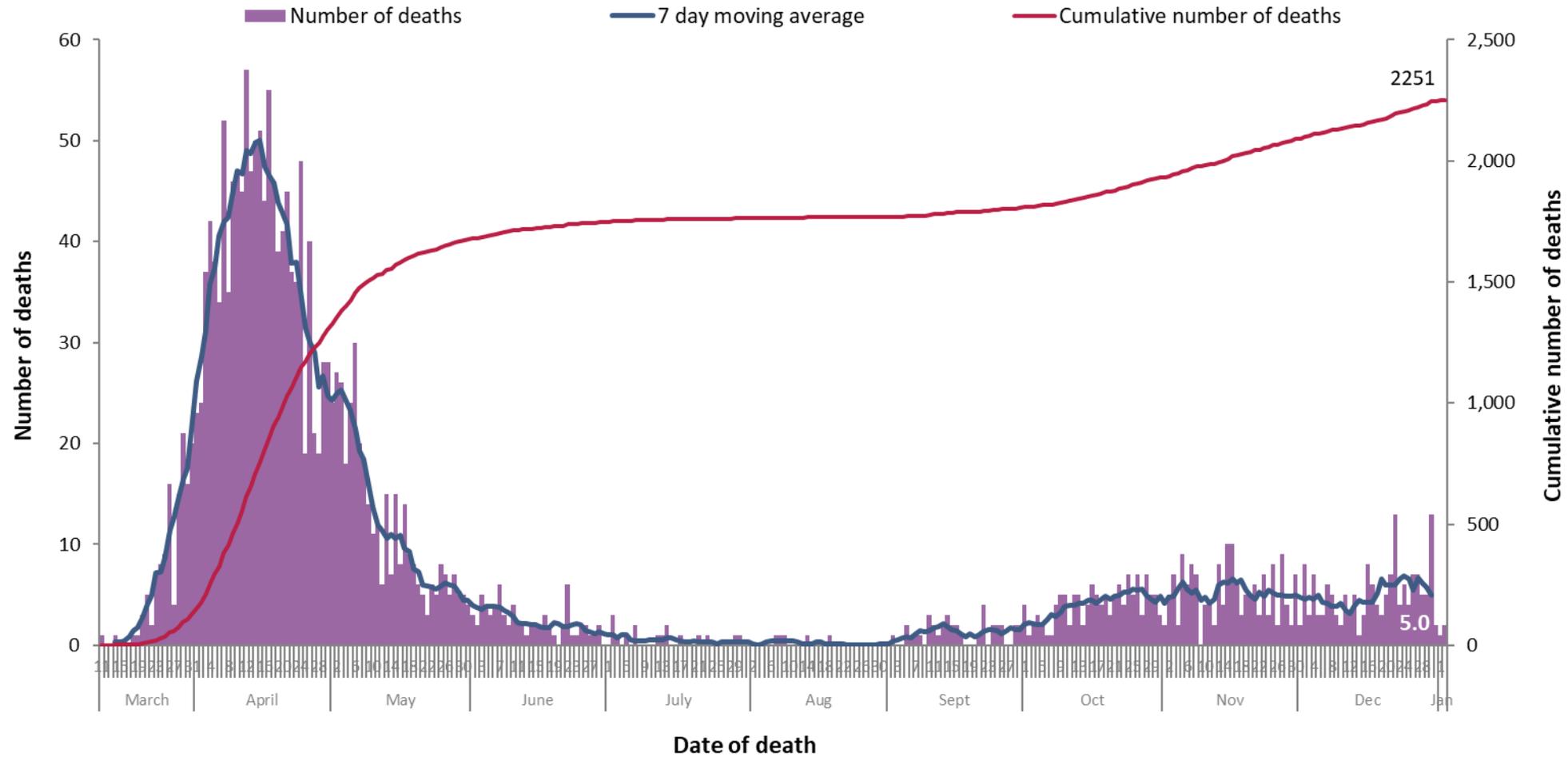


Figure 14a: Daily and 7-day moving average number of deaths among COVID-19 cases notified in Ireland by date of death and cumulative total between week 10 and week 53.

* Date of death is not yet available for twelve cases

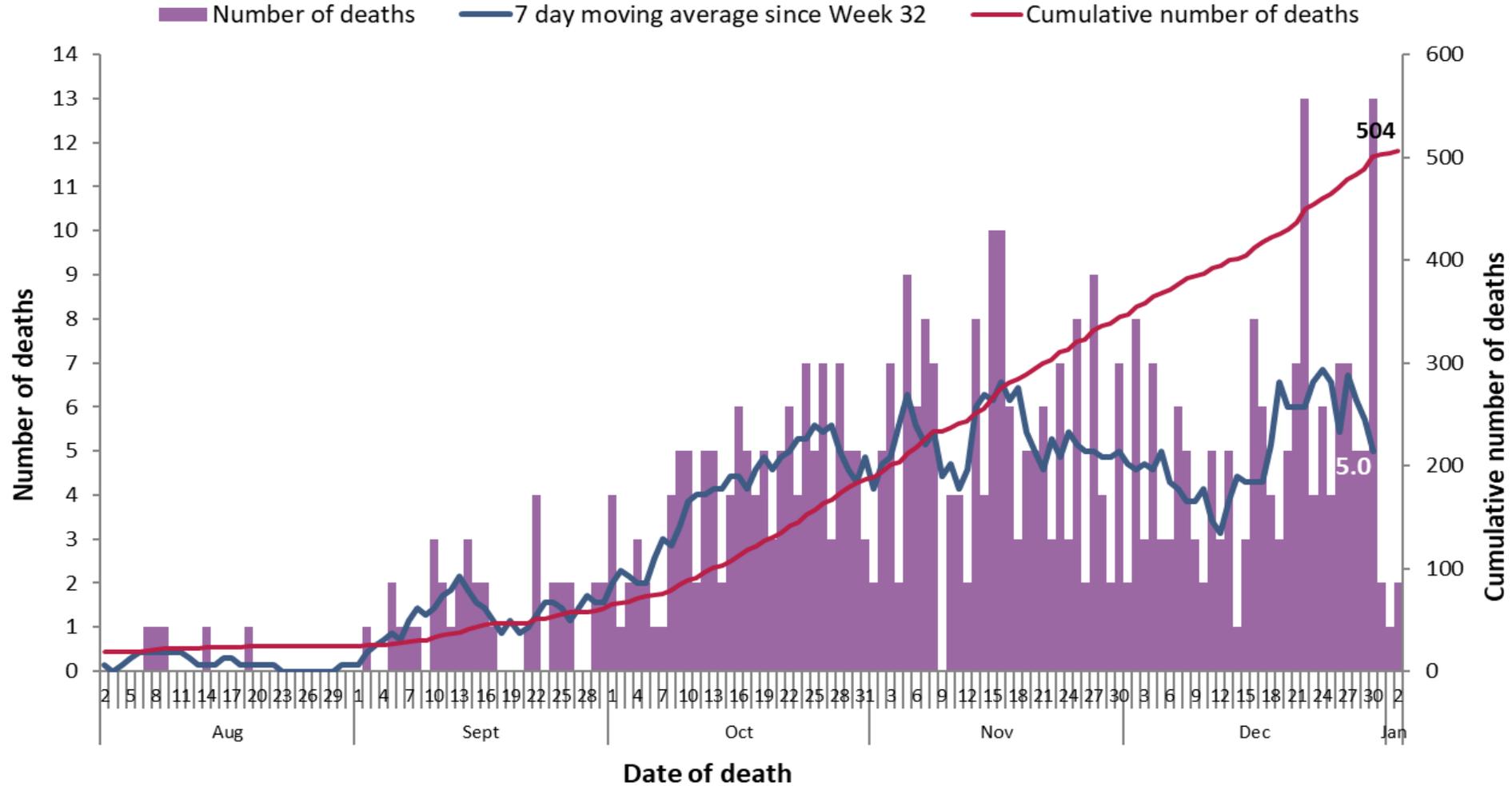


Figure 14b: Daily and 7-day moving average number of deaths among COVID-19 cases notified in Ireland by date of death and cumulative total, between week 32 and week 53.

Please note: a lag in time between reporting of deaths and data extraction is expected and as such most recent dates will not yet reflect all deaths on that date.

Please refer to the Health Protection Surveillance (HPSC) website for specific reports on

- [14 Day report](#) epidemiology of COVID-19 in Ireland
- [Outbreaks/clusters](#) in Ireland COVID-19 weekly report
- [Underlying Conditions](#) in confirmed cases of COVID-19 in Ireland weekly report
- [Healthcare Workers](#) in Ireland COVID-19 weekly report

Acknowledgements

Sincere thanks are extended to all those who are participating in the collection of data and reporting of data used in these reports. This includes the HSE COVID-19 Contact Management Programme (CMP), staff in ICU units, notifying clinicians, laboratory staff, public health doctors, nurses, surveillance scientists, microbiologists and administrative staff.

Report prepared by COVID-19 Epidemiology Team, HPSC

Technical Notes

1. Data Source

- Data are based on statutory notifications and were extracted from Computerised Infectious Disease Reporting (CIDR) system at 13:26 on 20/09/2020. Data are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.

2. Epidemiological date

- Epidemiological date is based on the earliest of dates available on the case and taken from date of onset of symptoms, date of diagnosis, laboratory specimen collection date, laboratory received date, laboratory reported date or event creation date/notification date on CIDR. By using this date rather than event creation/ notification date, adjusts for any delays in testing/notification.

3. Population data

- Population data were taken from Census 2016. Data were aggregated into the following age groups for the analysis: 0-4 years, 5-12 years, 13-18 years, 19-24 years, 25-34 years, 35-44 years, 45-54 years, 55-64 years, 65-74 years, 75-84 years and ≥ 85 years.

Appendix 1: Epidemiological weeks, start and end dates, 2020

- Note: Epidemiological week is from Sunday to Saturday in line with the [Infectious Disease Regulations 1981](#) and subsequent amendments

| Year | Week | Start date | End date |
|------|------|------------|------------|
| 2020 | 1 | 29/12/2019 | 04/01/2020 |
| 2020 | 2 | 05/01/2020 | 11/01/2020 |
| 2020 | 3 | 12/01/2020 | 18/01/2020 |
| 2020 | 4 | 19/01/2020 | 25/01/2020 |
| 2020 | 5 | 26/01/2020 | 01/02/2020 |
| 2020 | 6 | 02/02/2020 | 08/02/2020 |
| 2020 | 7 | 09/02/2020 | 15/02/2020 |
| 2020 | 8 | 16/02/2020 | 22/02/2020 |
| 2020 | 9 | 23/02/2020 | 29/02/2020 |
| 2020 | 10 | 01/03/2020 | 07/03/2020 |
| 2020 | 11 | 08/03/2020 | 14/03/2020 |
| 2020 | 12 | 15/03/2020 | 21/03/2020 |
| 2020 | 13 | 22/03/2020 | 28/03/2020 |
| 2020 | 14 | 29/03/2020 | 04/04/2020 |
| 2020 | 15 | 05/04/2020 | 11/04/2020 |
| 2020 | 16 | 12/04/2020 | 18/04/2020 |
| 2020 | 17 | 19/04/2020 | 25/04/2020 |
| 2020 | 18 | 26/04/2020 | 02/05/2020 |
| 2020 | 19 | 03/05/2020 | 09/05/2020 |
| 2020 | 20 | 10/05/2020 | 16/05/2020 |
| 2020 | 21 | 17/05/2020 | 23/05/2020 |
| 2020 | 22 | 24/05/2020 | 30/05/2020 |
| 2020 | 23 | 31/05/2020 | 06/06/2020 |
| 2020 | 24 | 07/06/2020 | 13/06/2020 |
| 2020 | 25 | 14/06/2020 | 20/06/2020 |
| 2020 | 26 | 21/06/2020 | 27/06/2020 |

| Year | Week | Start date | End date |
|------|------|------------|------------|
| 2020 | 27 | 28/06/2020 | 04/07/2020 |
| 2020 | 28 | 05/07/2020 | 11/07/2020 |
| 2020 | 29 | 12/07/2020 | 18/07/2020 |
| 2020 | 30 | 19/07/2020 | 25/07/2020 |
| 2020 | 31 | 26/07/2020 | 01/08/2020 |
| 2020 | 32 | 02/08/2020 | 08/08/2020 |
| 2020 | 33 | 09/08/2020 | 15/08/2020 |
| 2020 | 34 | 16/08/2020 | 22/08/2020 |
| 2020 | 35 | 23/08/2020 | 29/08/2020 |
| 2020 | 36 | 30/08/2020 | 05/09/2020 |
| 2020 | 37 | 06/09/2020 | 12/09/2020 |
| 2020 | 38 | 13/09/2020 | 19/09/2020 |
| 2020 | 39 | 20/09/2020 | 26/09/2020 |
| 2020 | 40 | 27/09/2020 | 03/10/2020 |
| 2020 | 41 | 04/10/2020 | 10/10/2020 |
| 2020 | 42 | 11/10/2020 | 17/10/2020 |
| 2020 | 43 | 18/10/2020 | 24/10/2020 |
| 2020 | 44 | 25/10/2020 | 31/10/2020 |
| 2020 | 45 | 01/11/2020 | 07/11/2020 |
| 2020 | 46 | 08/11/2020 | 14/11/2020 |
| 2020 | 47 | 15/11/2020 | 21/11/2020 |
| 2020 | 48 | 22/11/2020 | 28/11/2020 |
| 2020 | 49 | 29/11/2020 | 05/12/2020 |
| 2020 | 50 | 06/12/2020 | 12/12/2020 |
| 2020 | 51 | 13/12/2020 | 19/12/2020 |
| 2020 | 52 | 20/12/2020 | 26/12/2020 |
| 2020 | 53 | 27/12/2020 | 02/01/2021 |