



# Weekly Report on COVID-19 Outbreaks in Nursing Homes and Community Hospitals

## Week 9 2022

### Health Protection Surveillance Centre, 8<sup>th</sup> March 2022

#### Dates to note:

- Week 9 2022 (February 27<sup>th</sup> – March 5<sup>th</sup> 2022)
- Week 10 2020 (1<sup>st</sup> to 7<sup>th</sup> March 2020) – The beginning of the pandemic in Ireland
- Wave 5 of the pandemic in Ireland (Week 51 (week commencing 19<sup>th</sup> December 2021) to date)

Note: The epidemiological weeks in this report, run from Sunday to Saturday, please refer to the surveillance resources on the HPSC website for a complete list of epidemiological weeks with start and end dates.

*Note: Data were extracted from the Computerised Infectious Disease Reporting (CIDR) system on 08/03/2022. These data are provisional and subject to ongoing review, validation and update. As a result, figures in this report may differ from previously published figures.*

## Notes

The following report provides information on COVID-19 outbreaks/clusters notified on CIDR to midnight March 5<sup>th</sup> 2022 (week 9) and extracted from CIDR at 9 am on March 8<sup>th</sup> 2022.

Data are provisional and subject to ongoing review, validation and updating. For this reason, data reported may not match data previously reported or outbreaks data reported in the future for the same time period. Furthermore, the number of linked cases is based on the number of linked cases at the time of extraction from CIDR and an outbreak may increase in size since the time of extraction due to more cases occurring or more information becoming available on CIDR.

**Sincere thanks are extended to all those who are participating in the collection of data and reporting of data used in this report, particularly under the current challenging circumstances.** 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.

# COVID-19 outbreaks in Nursing Homes and Community Hospitals, Waves 1-5

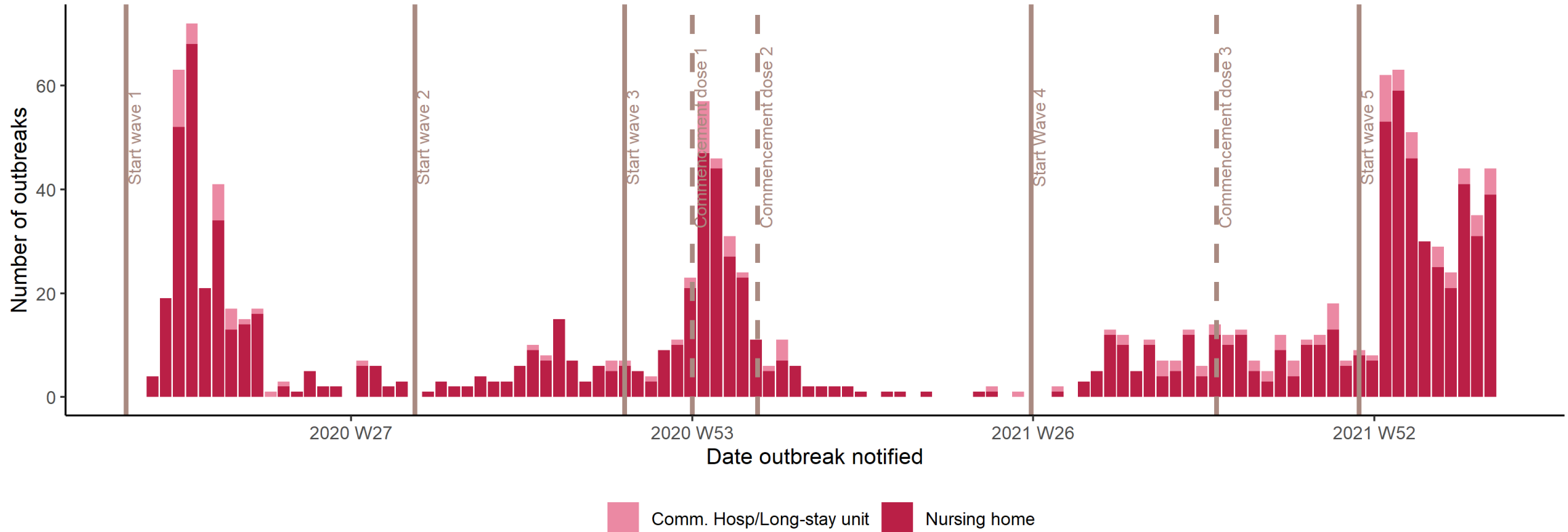


| Wave                                 | Outbreak            |                  | Linked confirmed cases |                     |                        |                              |                 |
|--------------------------------------|---------------------|------------------|------------------------|---------------------|------------------------|------------------------------|-----------------|
|                                      | Number of outbreaks | Number of cases* | Number                 | Number hospitalised | Number admitted to ICU | Number hospitalised and died | Number who died |
| Wave 1 (weeks 10-31 2020)            | 301                 | 6658             | 6251                   | 476                 | 16                     | 195                          | 884             |
| Wave 2 (weeks 32-47 2020)            | 80                  | 1571             | 1555                   | 90                  | <5                     | 25                           | 134             |
| Wave 3 (week 48 2020 - week 25 2021) | 267                 | 8375             | 8328                   | 577                 | 12                     | 199                          | 1026            |
| Wave 4 (weeks 26-50 2021)            | 202                 | 2805             | 2692                   | 188                 | <5                     | 49                           | 205             |
| Wave 5 (weeks 51 2021 – week 9 2022) | 399                 | 7106             | 5185                   | 209                 | <5                     | 18                           | 82              |
| <b>Total</b>                         | <b>1249</b>         | <b>26515</b>     | <b>24011</b>           | <b>1540</b>         | <b>33</b>              | <b>486</b>                   | <b>2331</b>     |

\*the larger between the aggregate number of confirmed cases reported or the number of confirmed linked cases

- Overall, there have been 1,249 COVID-19 outbreaks in Nursing homes and Community Hospitals
- 1,540 of 24,011 laboratory confirmed outbreak cases have been hospitalised (6.4%)
- 2,331 deaths have been reported among confirmed outbreak cases in these settings (9.7%)

# Weekly number of COVID-19 outbreaks in Nursing Homes and Community Hospitals, Waves 1-5



Large peaks occurred in the number of outbreaks in wave 1 (72 outbreaks in a single week) and wave 3 (57 outbreaks in a single week). In week 9 2022, 44 outbreaks were reported in these settings

# Burden of disease associated with COVID-19 outbreaks in Nursing Homes and Community Hospitals, Wave 5 (weeks 51 2021 to week 9 2022)



| Outbreaks Location        | Outbreak            |                  | Linked confirmed cases |                     |                        |                              |                 |
|---------------------------|---------------------|------------------|------------------------|---------------------|------------------------|------------------------------|-----------------|
|                           | Number of outbreaks | Number of cases* | Number                 | Number hospitalised | Number admitted to ICU | Number hospitalised and died | Number who died |
| Comm. Hosp/Long-stay unit | 39                  | 532              | 430                    | 41                  | <5                     | <5                           | <5              |
| Nursing home              | 360                 | 6574             | 4755                   | 168                 | <5                     | 18                           | 79              |
| <b>Total</b>              | <b>399</b>          | <b>7106</b>      | <b>5185</b>            | <b>209</b>          | <b>&lt;5</b>           | <b>18</b>                    | <b>82</b>       |

\*the larger between the aggregate number of confirmed cases reported or the number of confirmed linked cases

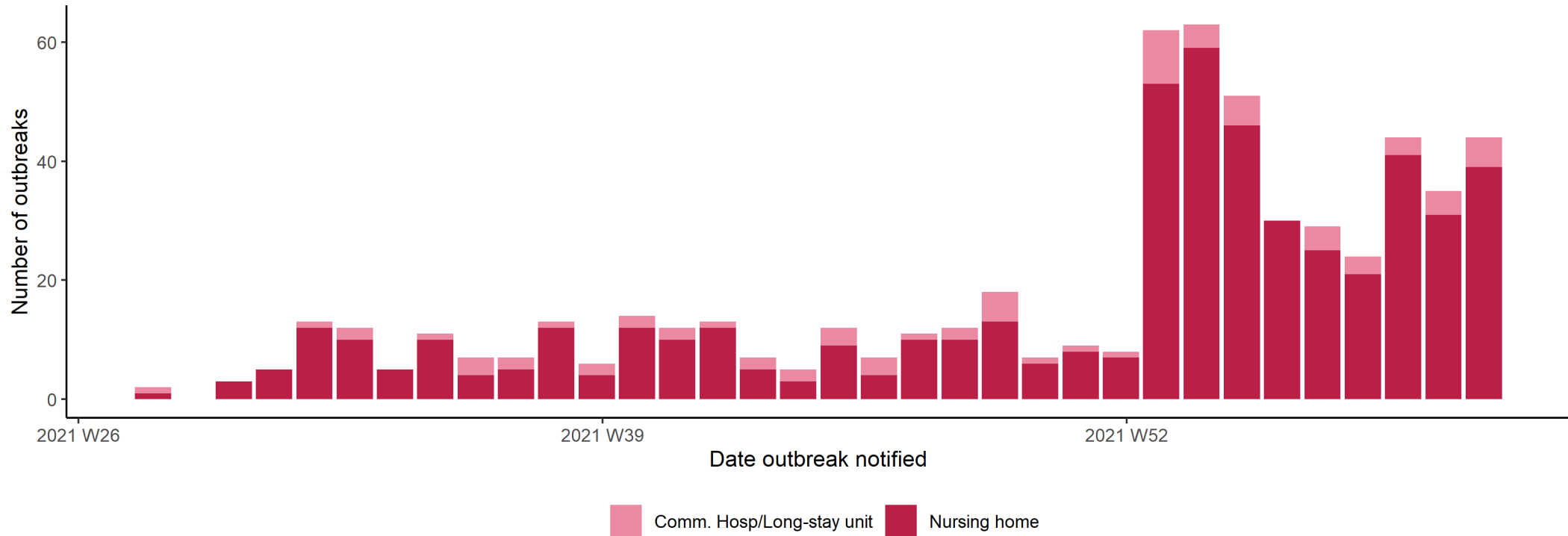
## Wave 5:

- 399 outbreaks in wave 5
- 7,106 cases were reported associated with these outbreaks, of which there was disaggregate data available on 5185 cases (73%)
- 209 of the 5,185 outbreak-linked cases (4.0%) were hospitalised (age range 21-99 years, median 83 years).
- 82 of the 5,185 outbreak-linked cases (1.6%) cases died (age range 58-101 years, median 87 years).

## Week 9 2022

- Forty-four new outbreaks -384 associated cases (range 0-36 cases per outbreak)

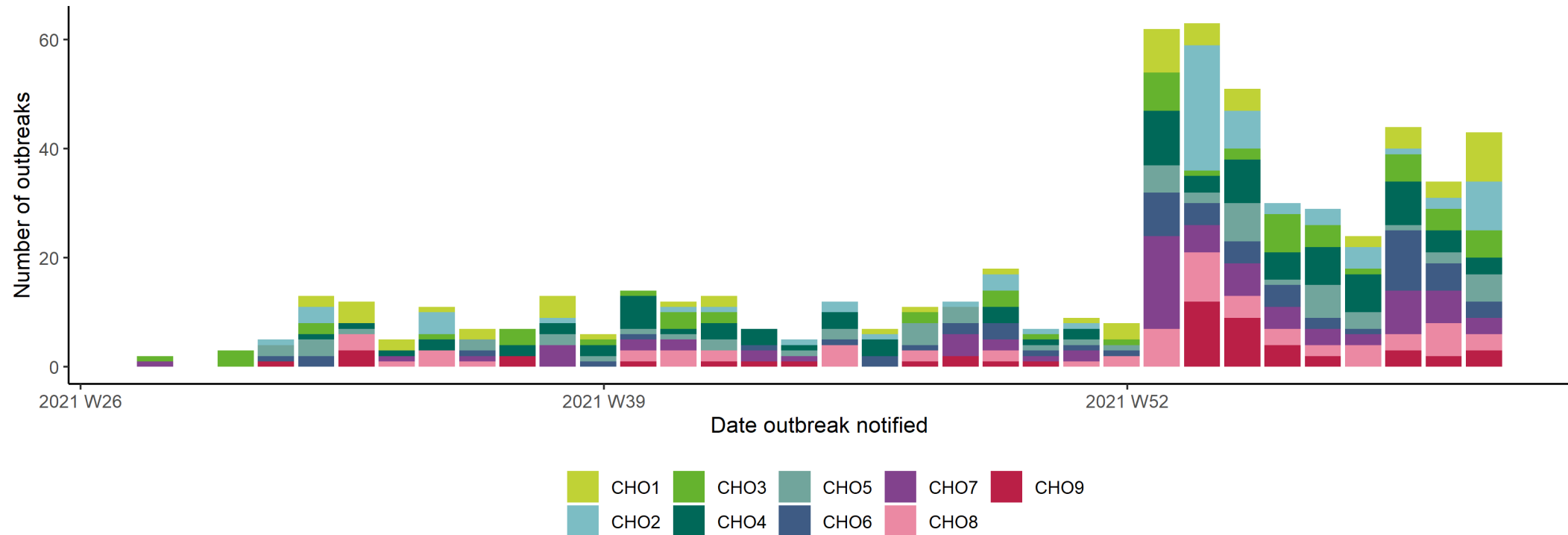
# Weekly number of COVID-19 outbreaks in Nursing Homes and Community Hospitals, Waves 4 & 5 (weeks 26 2021 – week 9 2022)



## Waves 4 and 5:

- 601 nursing home and community hospital/long stay unit COVID-19 outbreaks notified
- The number of outbreaks in these settings to week 52 2021 had been relatively stable, but increased to 63 outbreaks in week 2 2022, decreased to 24 outbreaks in week 6 2022, and was 44 in week 9 2022

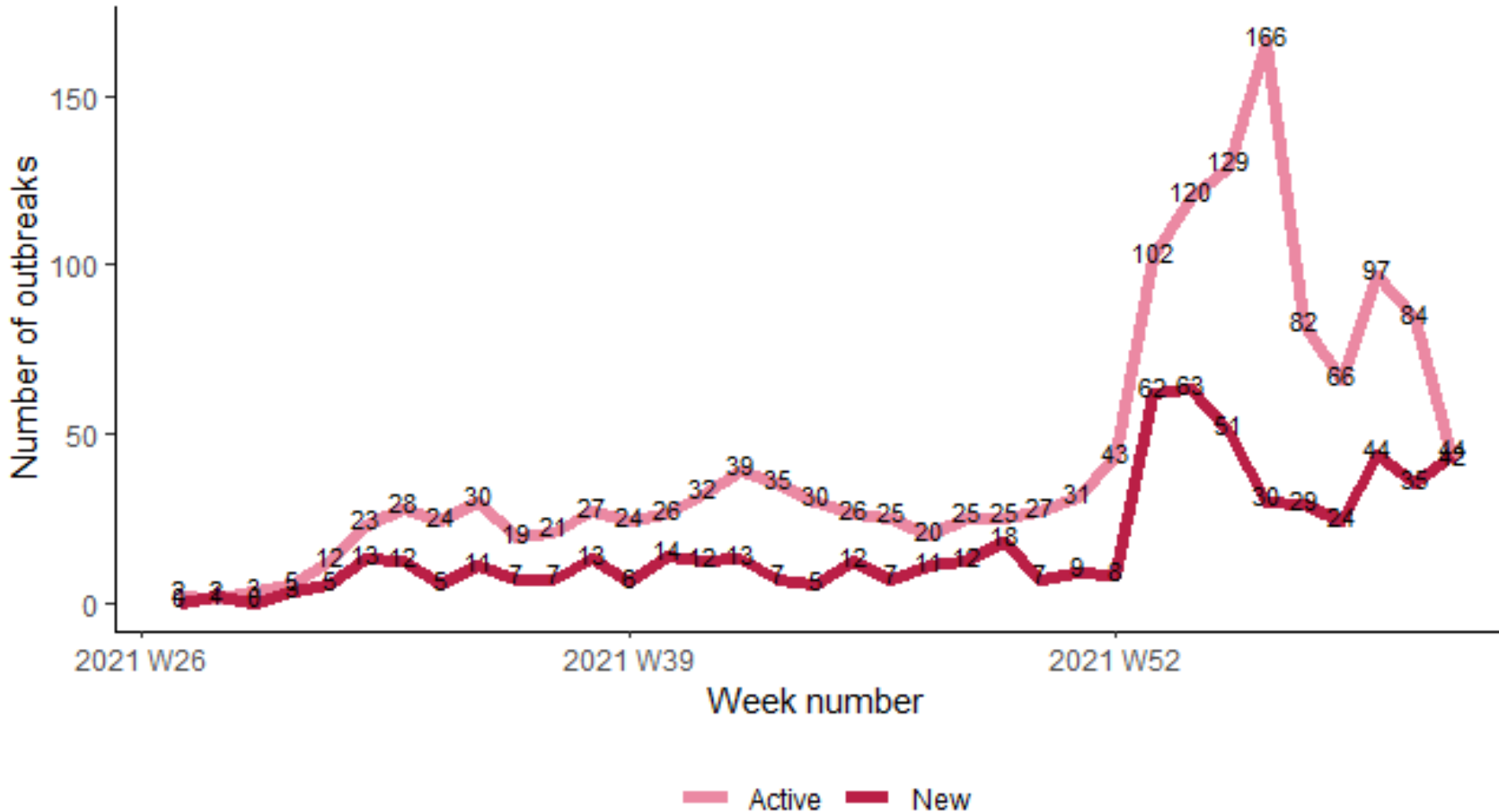
# Regional distribution of outbreaks in Nursing Home and Community Hospitals, Waves 4 & 5 (weeks 26 2021 – week 9 2022)



## Waves 4 and 5:

- The highest number of outbreaks was reported in CHO4 (92 outbreaks) followed by CHO7 (77 outbreaks)
- Nine CHOs were represented in the 44 outbreaks notified in week 9 2022

# New and active outbreaks by week in Nursing Home and Community Hospitals, Wave 4 and 5 (week 26 2021 to week 9 2022)



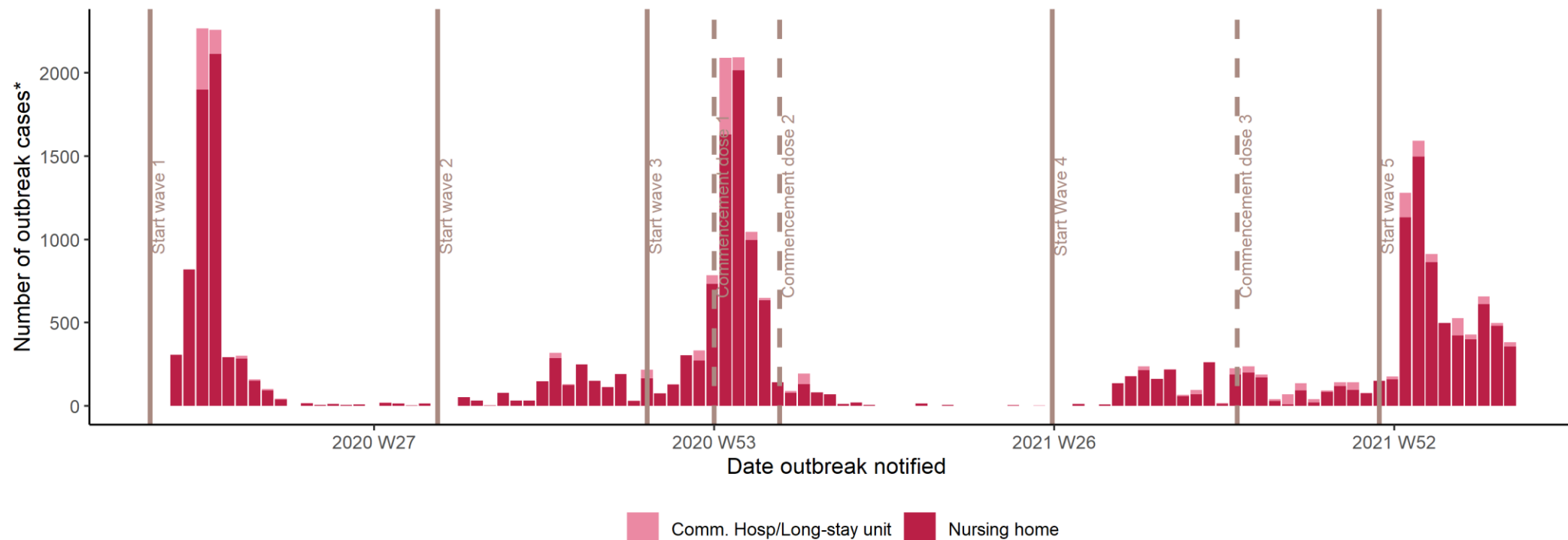
### Wave 4 and 5:

The number of active outbreaks (those with a case notified that week) peaked at 166 in week 4 2022. Fewer outbreaks had cases reported in weeks 5-9 2022 although the number of outbreaks with linked cases in the most recent weeks may increase as more data become available

Note: linked case information is only available for 5185/7106 (73%) cases in wave 5



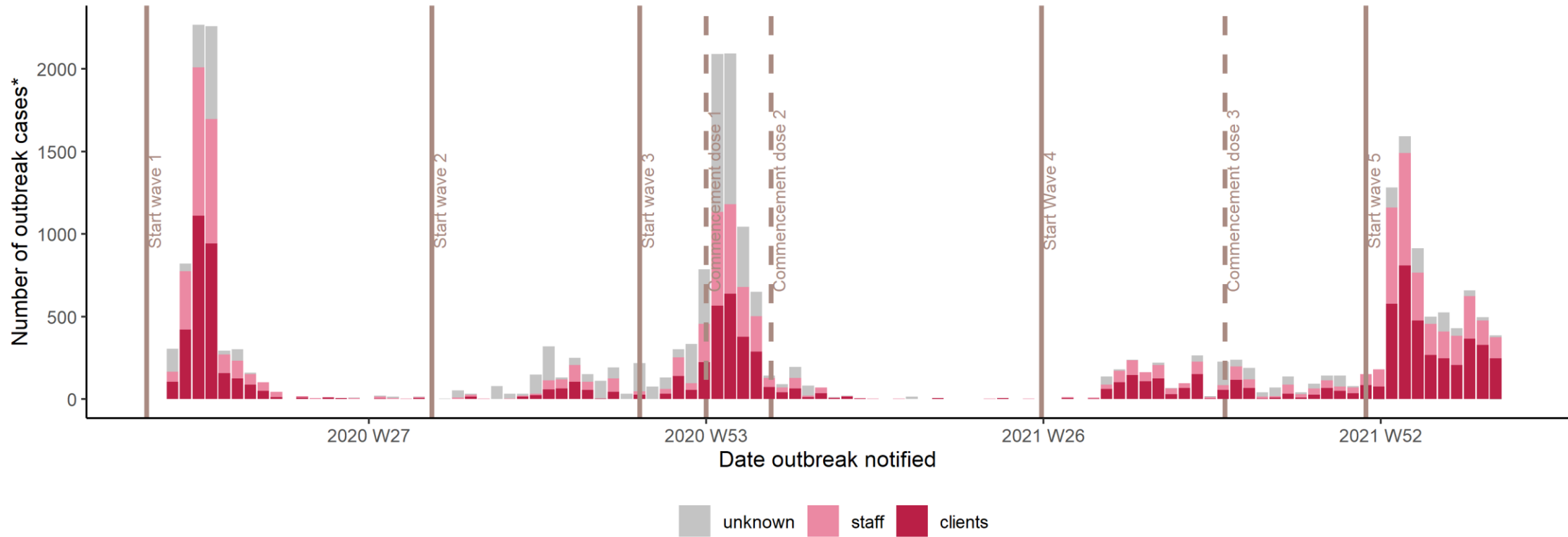
# Cases associated with COVID-19 outbreaks in Nursing Homes and Community Hospitals, Waves 1 to 5



For outbreaks reported in week 9 2022, the number of outbreak associated cases was 384. The peak in weekly case numbers in wave 5 was in outbreaks reported in week 2 2022 with 1592 cases. This is 6 times the peak weekly number of cases in wave 4 (n=265), and 76% of the peak weekly number of cases in wave 3 (n=2092)

Note: Numbers of associated cases are based on the larger between the aggregate number of confirmed cases reported and the number of confirmed linked cases

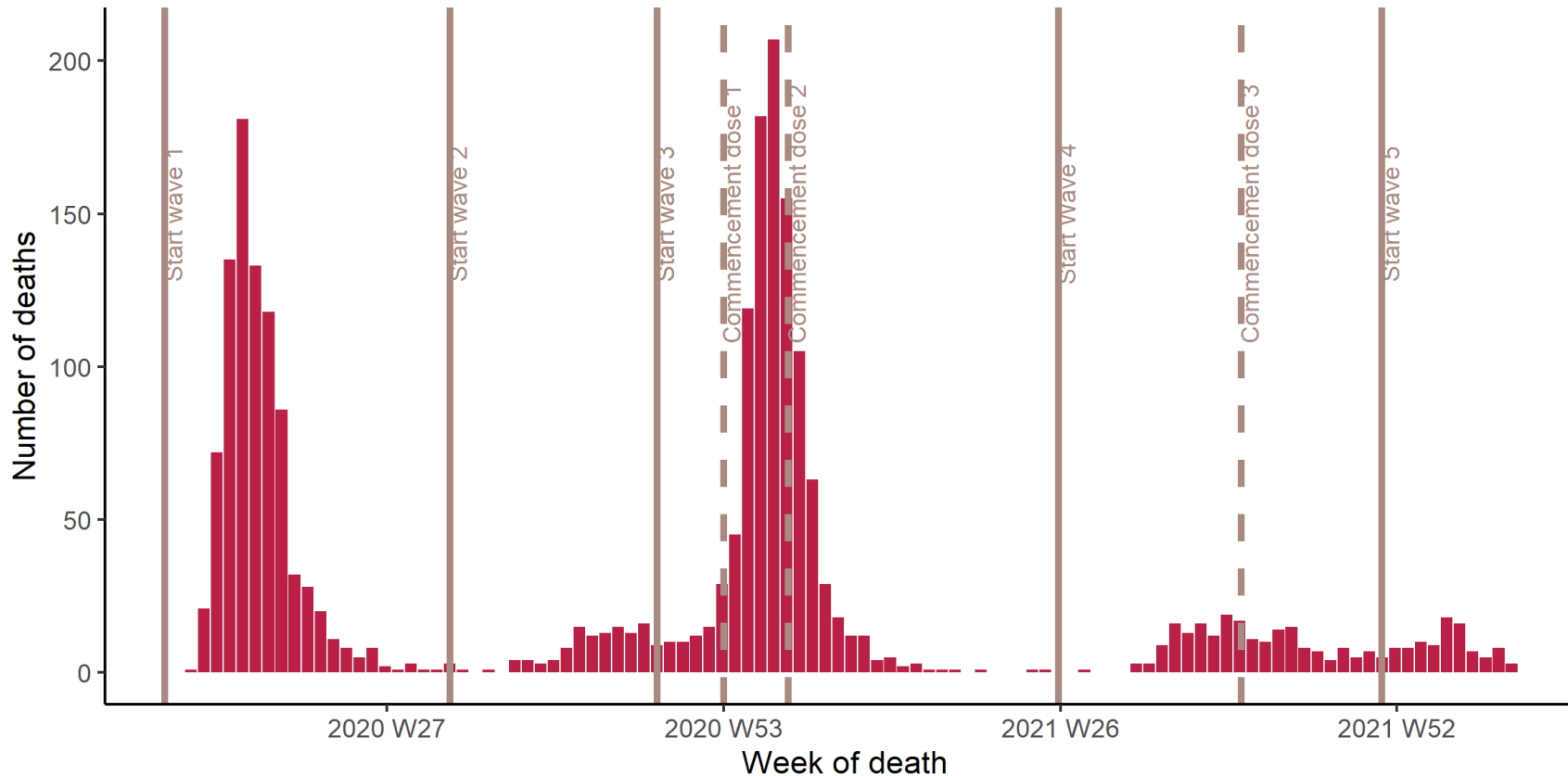
# Cases associated with COVID-19 outbreaks in Nursing Homes and Community Hospitals by healthcare worker status, Waves 1 to 5



In week 9, 129 outbreak associated cases were among staff and 246 among residents, with 9 cases of unknown status

Note: Numbers of associated cases are based on the larger between the aggregate number of confirmed cases reported and the number of confirmed linked cases. Staff and clients case numbers were derived from aggregate data provided on the number of staff and clients cases.

# Deaths among confirmed cases linked to COVID-19 outbreaks in Nursing Homes and Community Hospitals by week of death, waves 1 -5



- In wave 4, the number of deaths per week (by date of death) peaked in week 39 with 19 deaths, followed by a reduction from week 44
- In wave 5, the highest number of weekly deaths (by date of death) is 18 in week 4 2022
- Note: only 73% of outbreak-associated cases in wave 5 have been electronically linked to outbreaks, and were thus available for inclusion in this figure
- Also, the data on linked deaths for recent outbreaks is likely an underestimate, as deaths may still accrue among known cases

# Outcomes among cases linked to COVID-19 outbreaks in Nursing Homes and Community Hospitals by age group, Wave 5 (weeks 51 2021 to week 9 2022)

| Age group    | Number      | Number hospitalised | % hospitalised | Number admitted to ICU | % ICU       | Number who died | % died      |
|--------------|-------------|---------------------|----------------|------------------------|-------------|-----------------|-------------|
| <45 yrs      | 1397        | 22                  | 1.6%           | <5                     | 0.0%        | <5              | 0.0%        |
| 45-64 yrs    | 826         | 23                  | 2.8%           | <5                     | 0.0%        | <5              | 0.2%        |
| 65-74 yrs    | 367         | 20                  | 5.4%           | <5                     | 0.0%        | 7               | 1.9%        |
| 75-84 yrs    | 1086        | 64                  | 5.9%           | <5                     | 0.0%        | 27              | 2.5%        |
| 85+ yrs      | 1509        | 80                  | 5.3%           | <5                     | 0.1%        | 46              | 3.0%        |
| <b>Total</b> | <b>5185</b> | <b>209</b>          | <b>4.0%</b>    | <b>&lt;5</b>           | <b>0.0%</b> | <b>82</b>       | <b>1.6%</b> |

Note: disease severity information is only available for 5185/7106 (73%) cases in wave 5, and deaths may still accrue among known cases

# Comparison of disease severity among cases linked to outbreaks in Nursing Homes and Community Hospitals by wave and age group

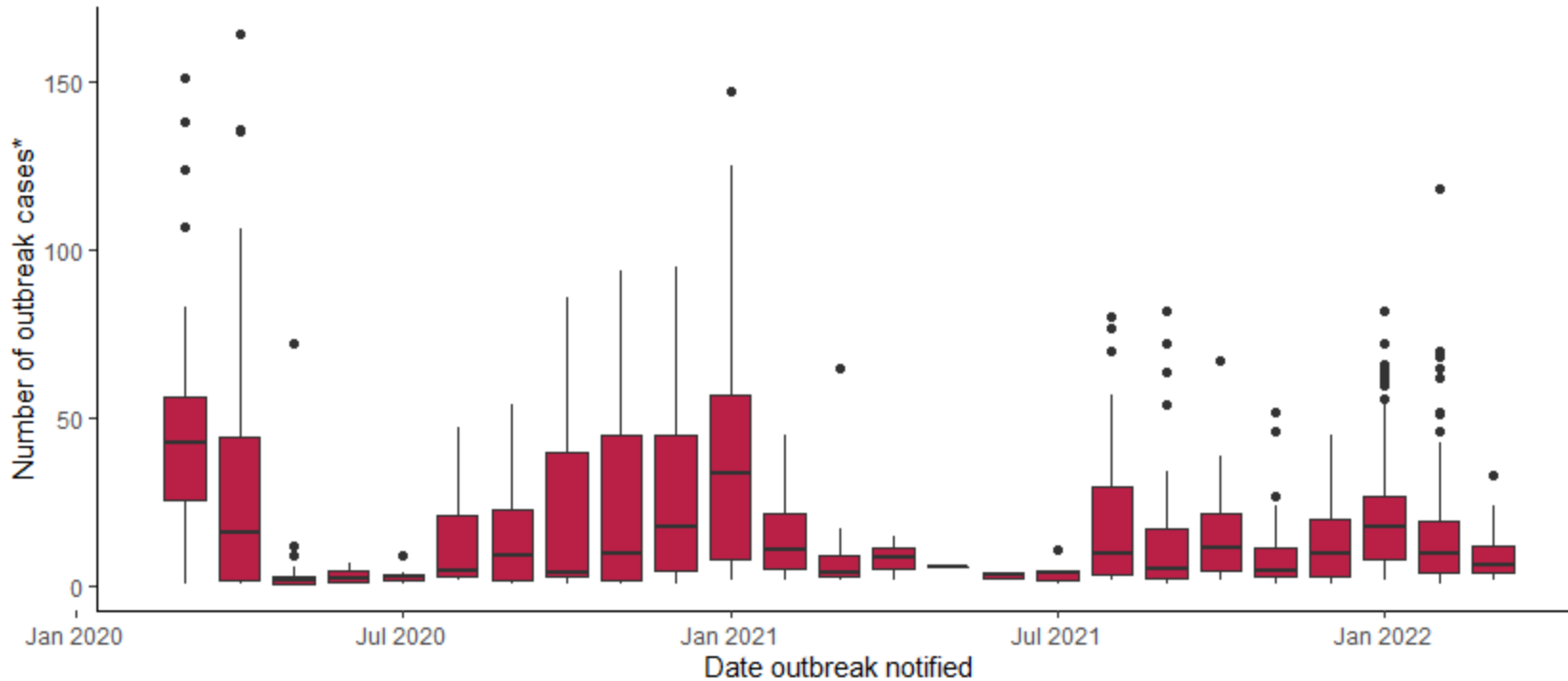


| Age group         | Wave   | Number | Number hospitalised | % hospitalised | Number admitted to ICU | % ICU | Number who died | % died |
|-------------------|--------|--------|---------------------|----------------|------------------------|-------|-----------------|--------|
| <b>&lt;65 yrs</b> | Wave 1 | 2672   | 88                  | 3.3%           | 5                      | 0.2%  | 20              | 0.7%   |
|                   | Wave 2 | 779    | 15                  | 1.9%           | <5                     | 0.0%  | <5              | 0.1%   |
|                   | Wave 3 | 4032   | 101                 | 2.5%           | 8                      | 0.2%  | 18              | 0.4%   |
|                   | Wave 4 | 1166   | 16                  | 1.4%           | <5                     | 0.2%  | 7               | 0.6%   |
|                   | Wave 5 | 2223   | 45                  | 2.0%           | <5                     | 0.0%  | <5              | 0.1%   |
| <b>65+ yrs</b>    | Wave 1 | 3577   | 388                 | 10.8%          | 11                     | 0.3%  | 864             | 24.2%  |
|                   | Wave 2 | 776    | 75                  | 9.7%           | <5                     | 0.1%  | 133             | 17.1%  |
|                   | Wave 3 | 4296   | 476                 | 11.1%          | <5                     | 0.1%  | 1008            | 23.5%  |
|                   | Wave 4 | 1526   | 172                 | 11.3%          | <5                     | 0.1%  | 198             | 13.0%  |
|                   | Wave 5 | 2962   | 164                 | 5.5%           | <5                     | 0.0%  | 80              | 2.7%   |
| <b>All ages</b>   | Wave 1 | 6251   | 476                 | 7.6%           | 16                     | 0.3%  | 884             | 14.1%  |
|                   | Wave 2 | 1555   | 90                  | 5.8%           | <5                     | 0.1%  | 134             | 8.6%   |
|                   | Wave 3 | 8328   | 577                 | 6.9%           | 12                     | 0.1%  | 1026            | 12.3%  |
|                   | Wave 4 | 2692   | 188                 | 7.0%           | <5                     | 0.1%  | 205             | 7.6%   |
|                   | Wave 5 | 5185   | 209                 | 4.0%           | <5                     | 0.0%  | 82              | 1.6%   |

The percentage of outbreak-linked cases aged 65 years or older who died in wave 4 was 13% and in wave 5 was 2.7%, compared to between 17.1% and 24.2% in waves 1-3

Note: disease severity information is only available for 5185/7106 (73%) cases in wave 5, and deaths may still accrue among known cases

# Distribution of outbreak size\* by month of outbreak notification

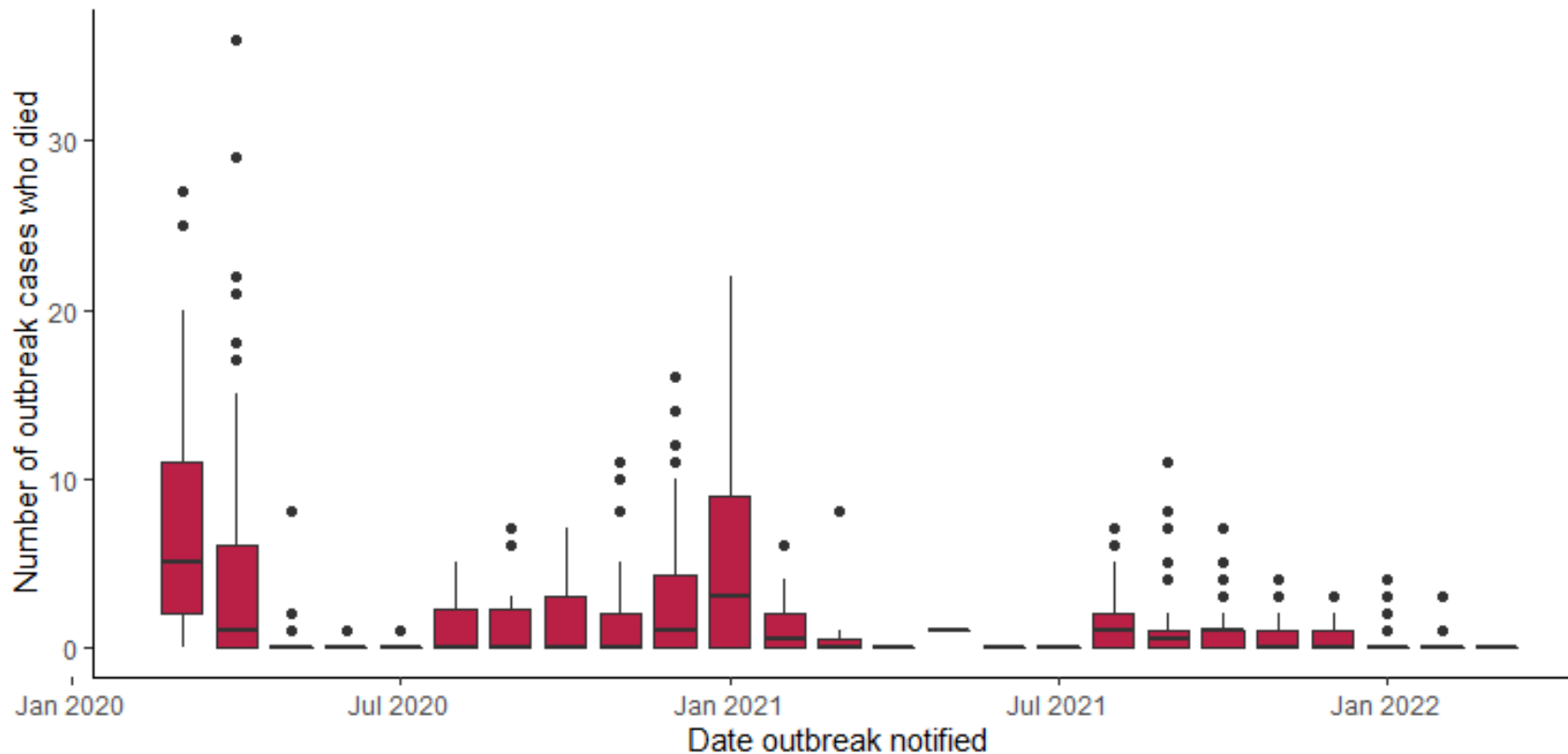


The median outbreak size has remained relatively low since the vaccination programme commenced in January/February 2021

The median outbreak size for outbreaks reported in January 2022 increased to 18 and reduced to 10.0 in February (Note: data for February and March likely incomplete)

\*Number of associated cases is based on the larger between the aggregate number of confirmed cases reported and the number of confirmed linked cases

# Distribution of number of deaths per outbreak by month of outbreak notification



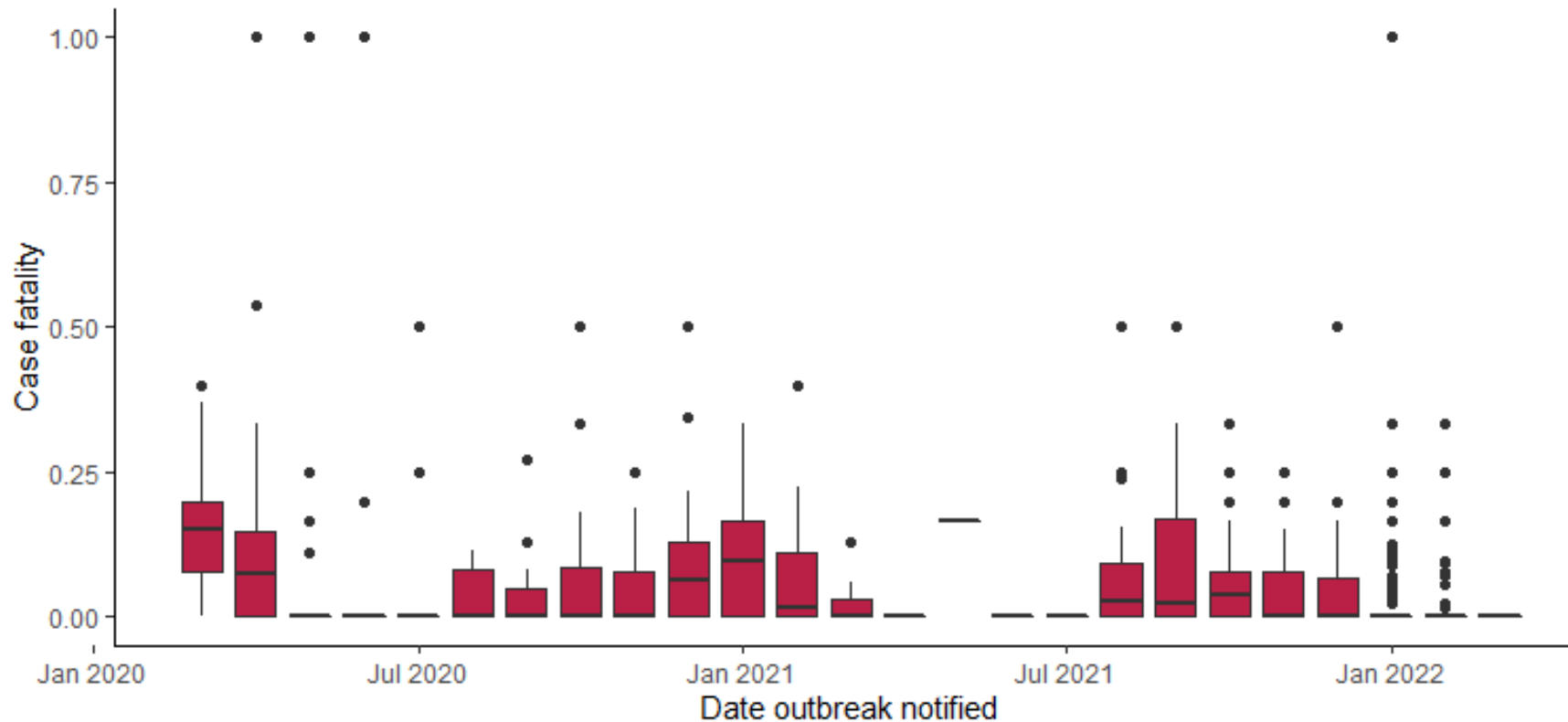
The median number of deaths per outbreak has remained relatively low since the vaccination programme commenced in January/February 2021.

The monthly median number of deaths per outbreak has remained at zero since November 2021 (Note: data for February and March likely incomplete)

Note: Later outbreaks in the series may still be accruing cases and deaths

Note: Only outbreaks with linked case information are included in this calculation

# Distribution of outbreak case fatality by month of outbreak notification



The median outbreak case fatality has remained relatively low since the vaccination programme commenced in January/February 2021.

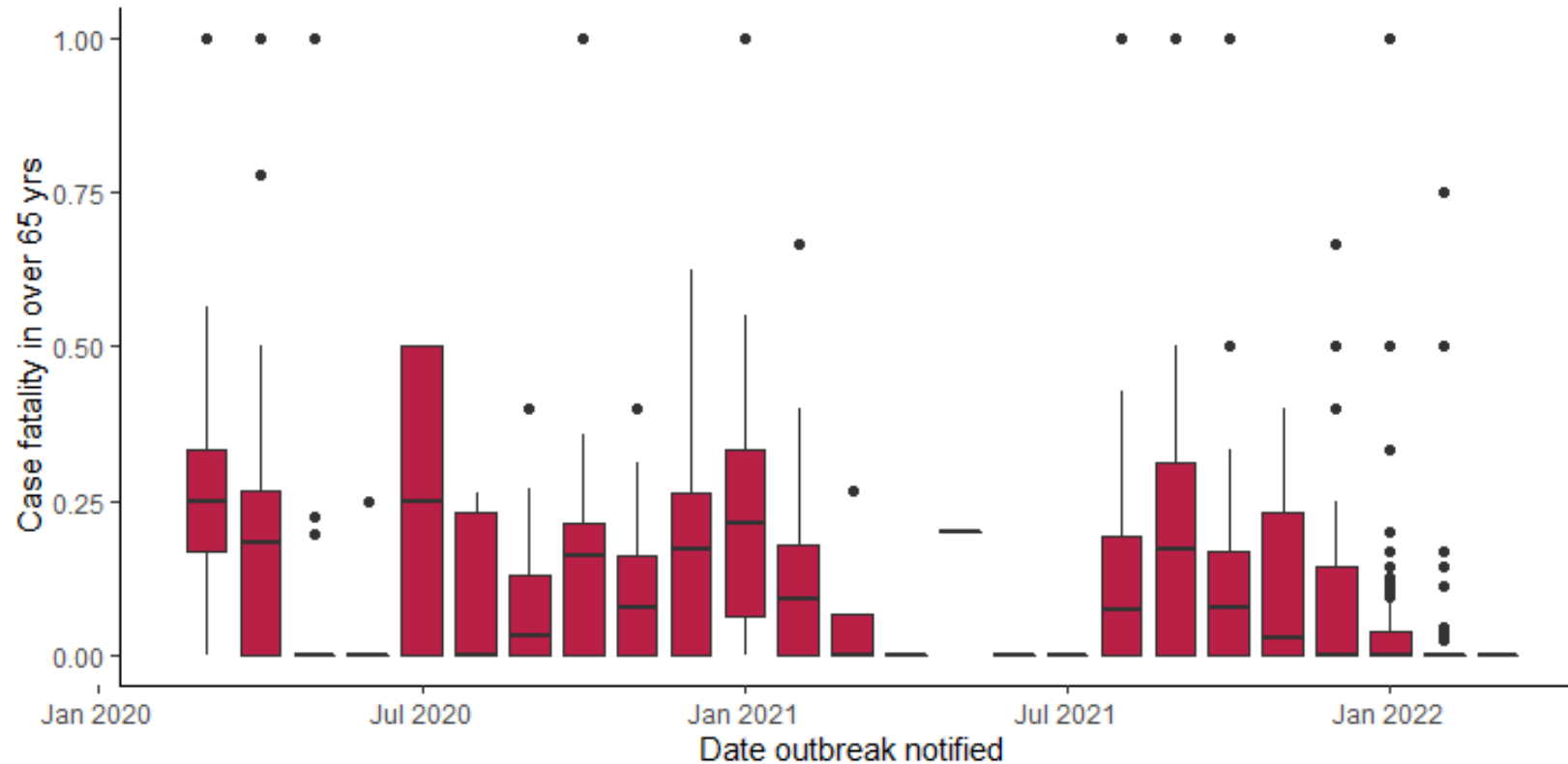
The monthly median outbreak case fatality has remained at zero since November 2021 (Note: data for February and March likely incomplete)

Note: Later outbreaks in the series may still be accruing cases and deaths

Note: Only outbreaks with linked case information are included in this calculation



# Distribution of outbreak case fatality in cases 65 years or over by month of outbreak notification [in outbreaks with cases over 65 years ]



The median outbreak case fatality in cases 65 years or over has remained at zero since December 2021 (note: data for February and March likely incomplete)

Note: Later outbreaks in the series may still be accruing cases and deaths

Note: Only outbreaks with linked case information are included in this calculation