



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

Week 17 2022

Health Protection Surveillance Centre, May 3rd 2022

Dates to note:

- Week 17 2022 (April 24th-30th 2022)
- Week 10 2020 (1st to 7th March 2020) –The beginning of the pandemic in Ireland
- Wave 5 of the pandemic in Ireland (Week 51 (week commencing 19th 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 03/05/2022. 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 April 30th 2022 (week 17) and extracted from CIDR at 9am on May 3rd 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

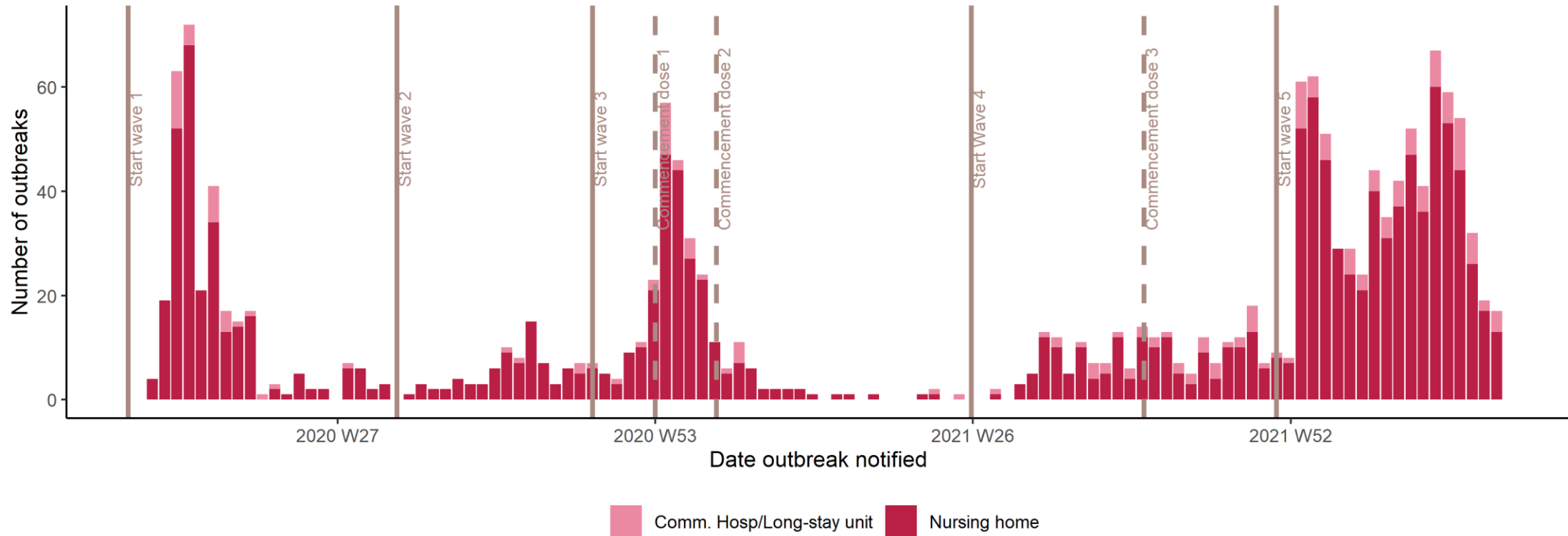


Wave	Outbreak		Linked confirmed cases				
	Number of outbreaks	Number of cases*	Number	Number hospitalised	Number admitted to ICU	Number hospitalised and died	Number who died
Wave 1 (weeks 10-31 2020)	301	6658	6251	476	16	195	886
Wave 2 (weeks 32-47 2020)	80	1571	1555	90	<5	25	134
Wave 3 (week 48 2020 - week 25 2021)	267	8375	8328	577	12	200	1030
Wave 4 (weeks 26-50 2021)	202	2822	2712	190	<5	50	206
Wave 5 (weeks 51 2021 – week 17 2022)	735	14484	9899	440	6	49	211
Total	1585	33910	28745	1773	38	519	2467

*the larger between the aggregate number of confirmed cases reported or the number of confirmed linked cases. In wave5, includes cases confirmed by PCR or Antigen testing

- Overall, there have been 1,585 COVID-19 outbreaks in Nursing homes and Community Hospitals
- 1,773 of 28,745 laboratory confirmed outbreak cases have been hospitalised (6.2%)
- 2,467 deaths have been reported among confirmed outbreak cases in these settings (8.6%)

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), wave 3 (57 outbreaks in a single week) and wave 5 (67 outbreaks in a single week).

In week 17 2022, 17 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 17 2022)



Outbreaks Location ⁷	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	86	1186	869	106	<5	<5	10
Nursing home	649	13298	9030	334	<5	45	201
Total	735	14484	9899	440	6	49	211

*the larger between the aggregate number of confirmed cases reported or the number of confirmed linked cases. In wave5, includes cases confirmed by PCR or Antigen testing

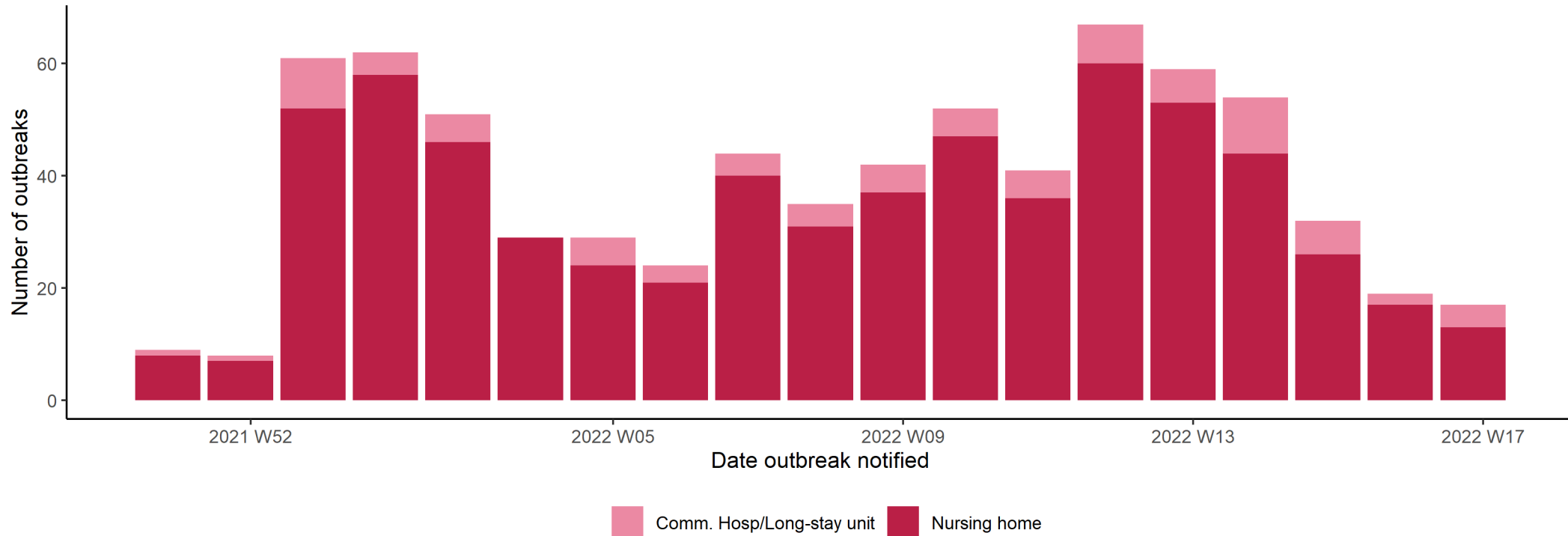
Wave 5:

- 735 outbreaks in wave 5
- 14,484 cases were reported associated with these outbreaks, of which there was disaggregate data available on 9,899 cases (68%)
- 440 of the 9,899 outbreak-linked cases (4.4%) were hospitalised (age range 18-100 years, median 83 years).
- 211 of the 9,899 outbreak-linked cases (2.1%) died (age range 52-101 years, median 87 years). Seven additional deaths were reported among probable cases linked to wave 5 outbreaks.

Week 17 2022

- Seventeen new outbreaks -85 associated cases (range 0-16 cases per outbreak)

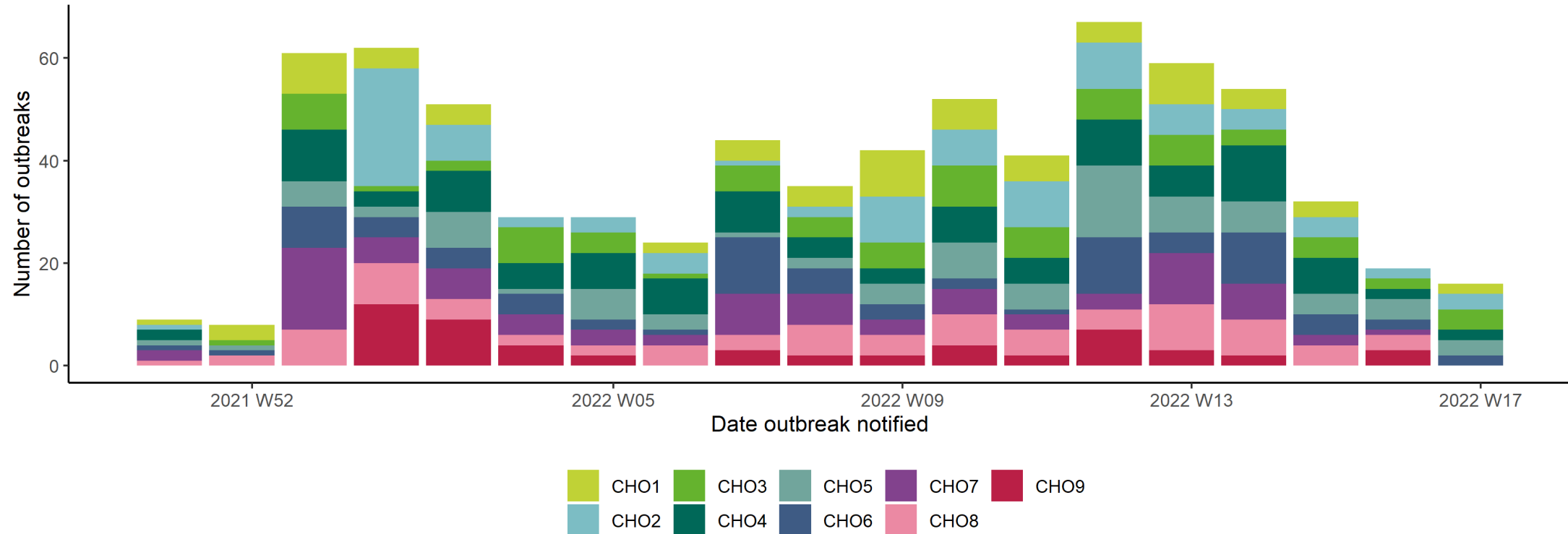
Weekly number of COVID-19 outbreaks in Nursing Homes and Community Hospitals, Waves 5 (week 51 2021 – week 17 2022)



Waves 5:

- 735 nursing home and community hospital/long stay unit COVID-19 outbreaks notified
- The number of outbreaks in these settings increased to 62 outbreaks in week 2 2022, decreased to 24 outbreaks in week 6 2022, increased to 67 again in week 12 2022, and was 17 in week 17 2022

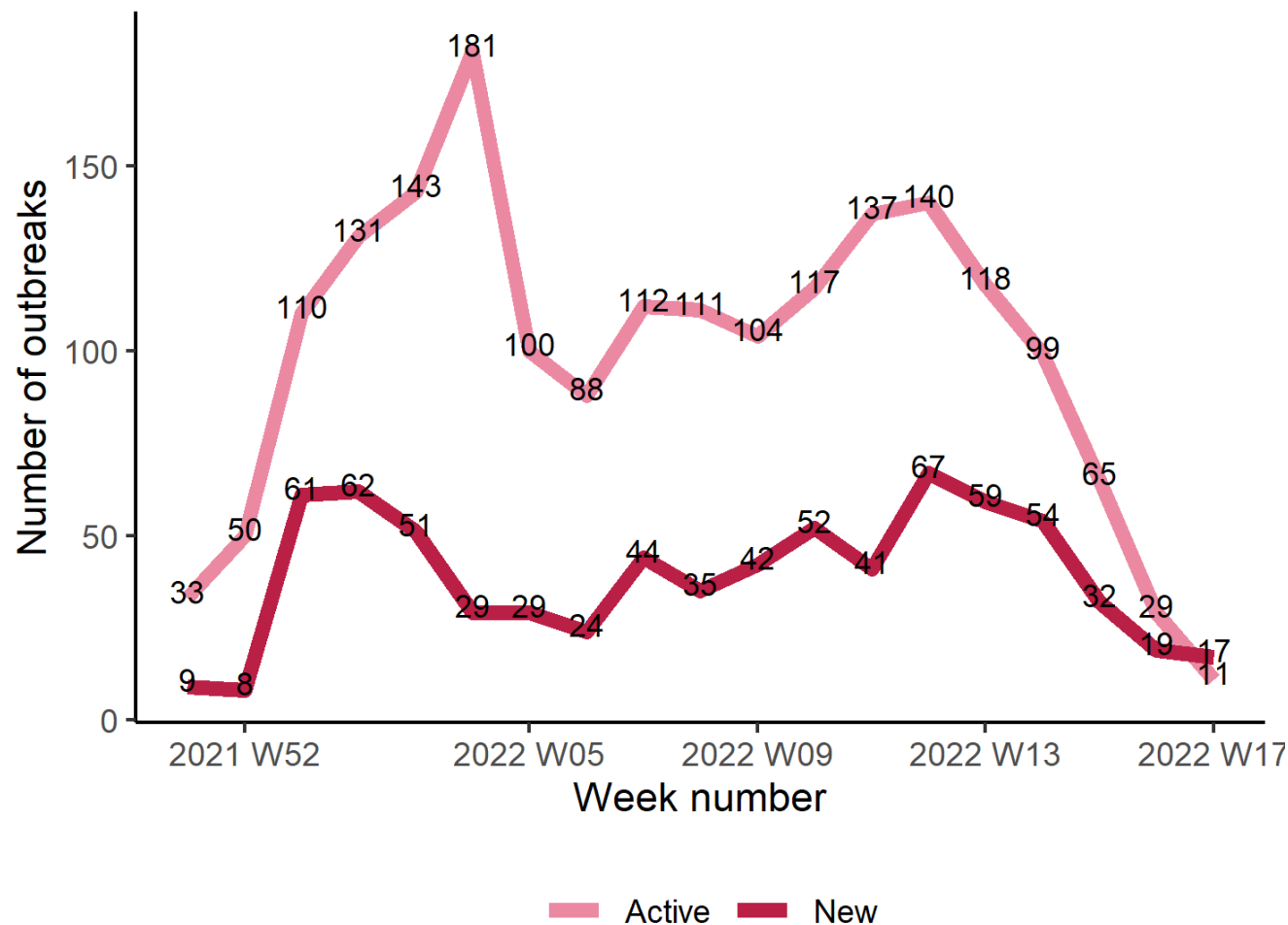
Regional distribution of outbreaks in Nursing Home and Community Hospitals, Waves 5 (week 51 2021 – week 17 2022)



Wave 5:

- The highest number of outbreaks was reported in CHO4 (106 outbreaks) followed by CHO2 (96 outbreaks)
- Six CHOs were represented in the 17 outbreaks notified in week 17 2022

New and active outbreaks by week in Nursing Home and Community Hospitals, Wave 5 (week 51 2021 to week 17 2022)

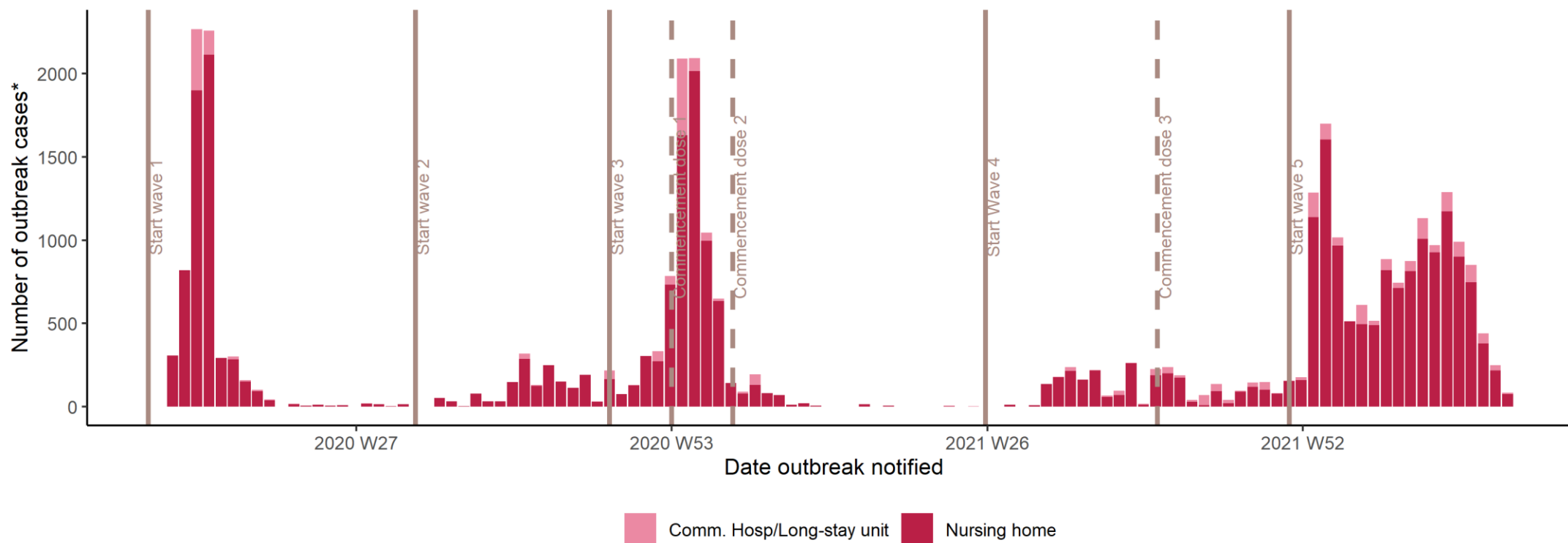


Wave 4 and 5:

The number of active outbreaks (those with a case notified that week) peaked at 181 in week 4 2022, and again at 140 in week 12 2022. Fewer outbreaks had cases reported in weeks 13-17 2022 although the number of known active outbreaks in the most recent weeks may increase as more data become available

Note: linked case information is only available for 9,899/14,484 (68%) cases in wave 5

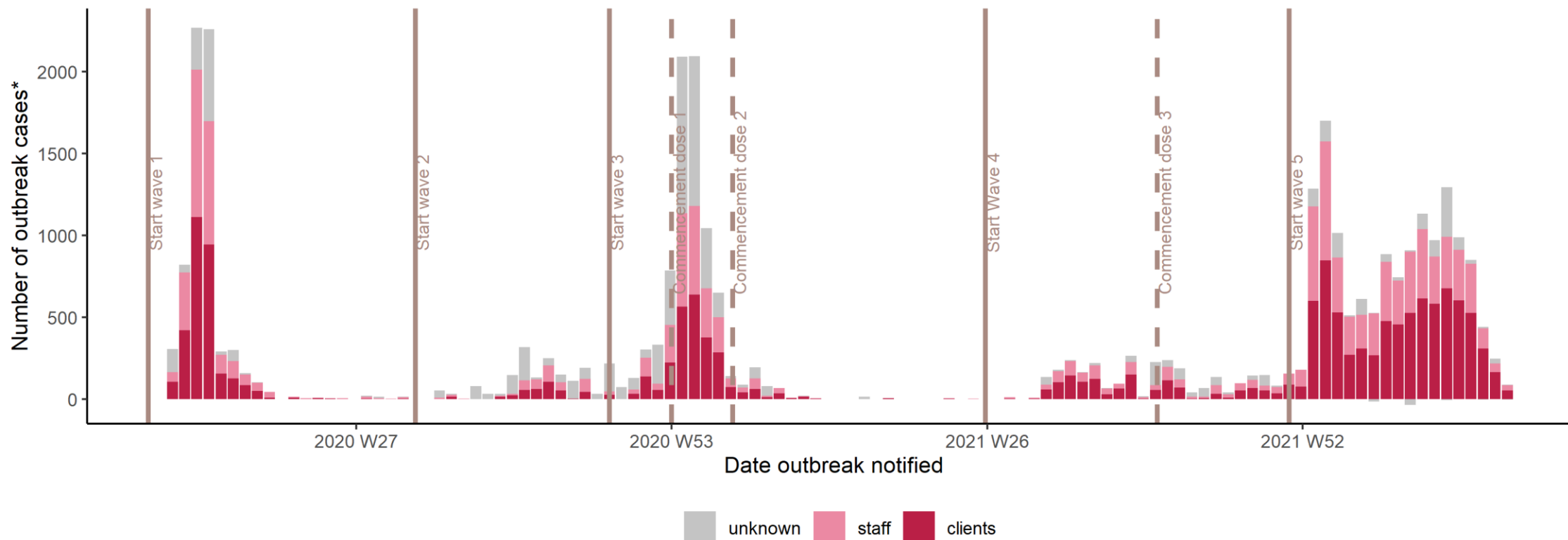
Cases associated with COVID-19 outbreaks in Nursing Homes and Community Hospitals, Waves 1 to 5



For outbreaks reported in week 17 2022, the number of outbreak associated cases was 85. The peak in weekly case numbers in wave 5 was in outbreaks reported in week 2 2022 with 1699 cases. This was more than 6 times the peak weekly number of cases in wave 4 (n=265), and 81% 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

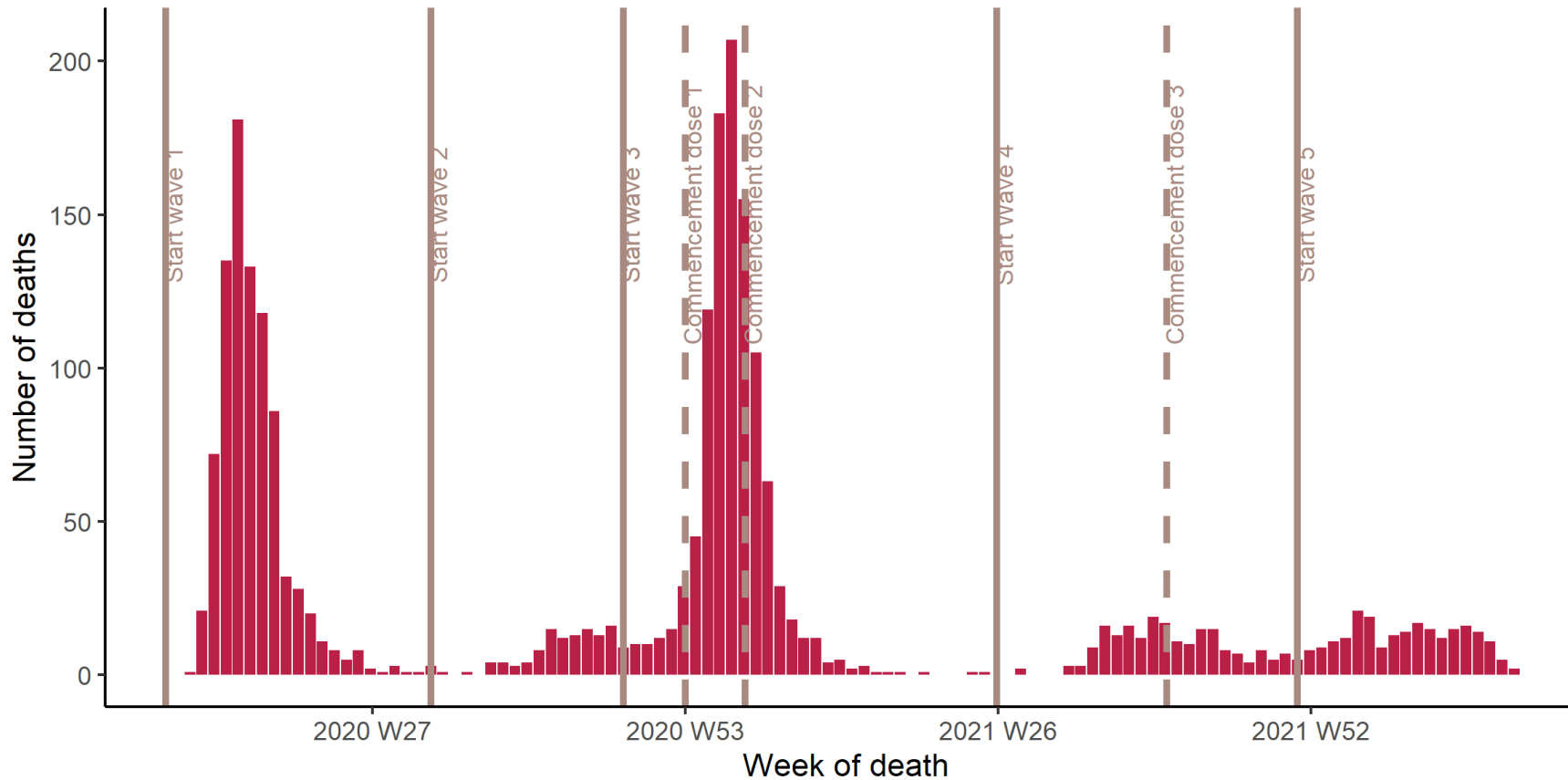
Cases associated with COVID-19 outbreaks in Nursing Homes and Community Hospitals by healthcare worker status, Waves 1 to 5



In week 17, 33 outbreak associated cases (39%) were among staff and 52 (61%) among residents

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 5, the highest number of weekly deaths (by date of death) was 21 in week 4 2022
- Note: only 68% 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 confirmed cases linked to COVID-19 outbreaks in Nursing Homes and Community Hospitals by age group, Wave 5 (week 51 2021 to week 17 2022)



Age group	Number	Number hospitalised	% hospitalised	Number admitted to ICU	% ICU	Number who died	% died
<45 yrs	2338	27	1.2%	<5	0.0%	<5	0.0%
45-64 yrs	1612	34	2.1%	<5	0.1%	<5	0.2%
65-74 yrs	757	44	5.8%	<5	0.1%	12	1.6%
75-84 yrs	2092	150	7.2%	<5	0.1%	62	3.0%
85+ yrs	3100	185	6.0%	<5	0.0%	133	4.3%
Total	9899	440	4.4%	6	0.1%	211	2.1%

Note: disease severity information is only available 9,899/14,484 (68%) cases in wave 5, and deaths may still accrue among known cases

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

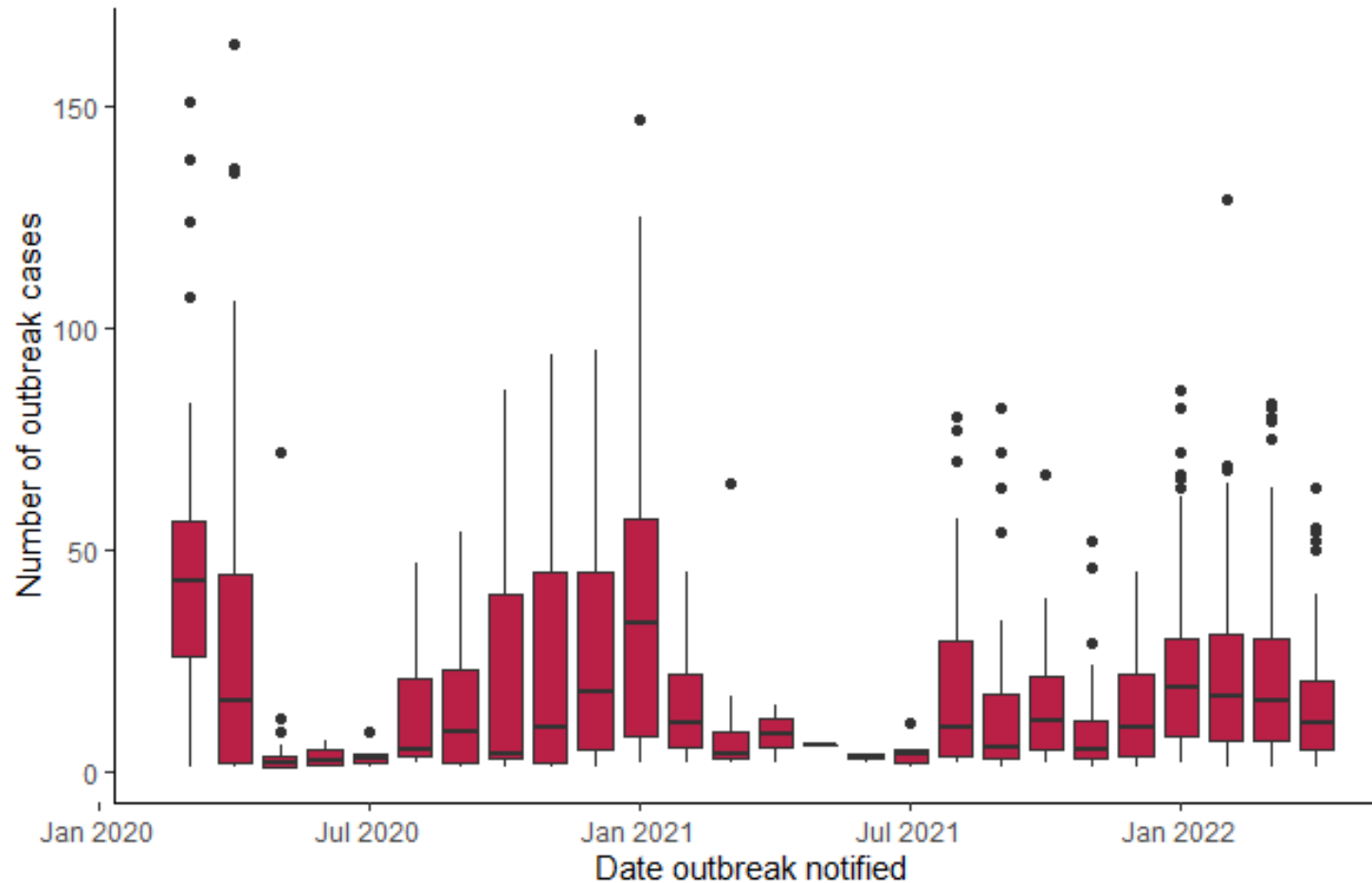


Age group	Wave	Number	Number hospitalised	% hospitalised	Number admitted to ICU	% ICU	Number who died	% died
<65 yrs	Wave 1	2672	88	3.3%	5	0.2%	20	0.7%
	Wave 2	779	15	1.9%	<5	0.0%	<5	0.1%
	Wave 3	4032	101	2.5%	8	0.2%	18	0.4%
	Wave 4	1180	16	1.4%	<5	0.2%	7	0.6%
	Wave 5	3950	61	1.5%	<5	0.1%	<5	0.1%
65+ yrs	Wave 1	3577	388	10.8%	11	0.3%	866	24.2%
	Wave 2	776	75	9.7%	<5	0.1%	133	17.1%
	Wave 3	4296	476	11.1%	<5	0.1%	1012	23.6%
	Wave 4	1532	174	11.4%	<5	0.1%	199	13.0%
	Wave 5	5949	379	6.4%	<5	0.1%	207	3.5%
All ages	Wave 1	6251	476	7.6%	16	0.3%	886	14.2%
	Wave 2	1555	90	5.8%	<5	0.1%	134	8.6%
	Wave 3	8328	577	6.9%	12	0.1%	1030	12.4%
	Wave 4	2712	190	7.0%	<5	0.1%	206	7.6%
	Wave 5	9899	440	4.4%	<5	0.1%	211	2.1%

The percentage of cases 65 years or older who died among confirmed cases linked to outbreaks notified in wave 5 was 3.5%, compared to between 13.0% and 24.2% in waves 1-4

Note: disease severity information is only available 9,899/14,484 (68%) cases in wave 5, and deaths may still accrue among known cases

Distribution of outbreak size* by month of outbreak notification

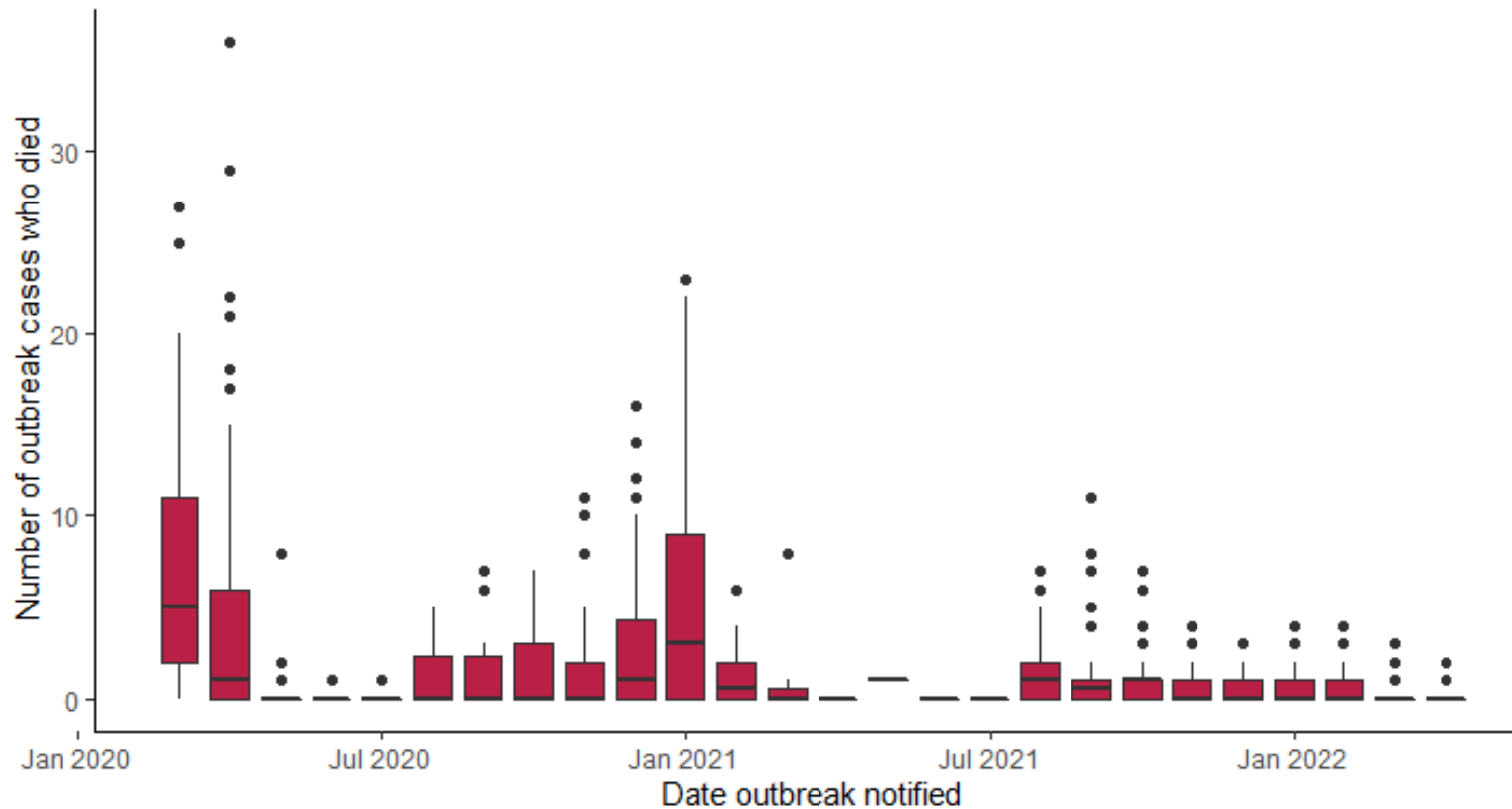


The median outbreak size has remained relatively low since the vaccination programme commenced in January/February 2021

The median outbreak size for outbreaks reported in January 2022 increased to 19 and reduced to 11 in April (Note: data for March and April 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



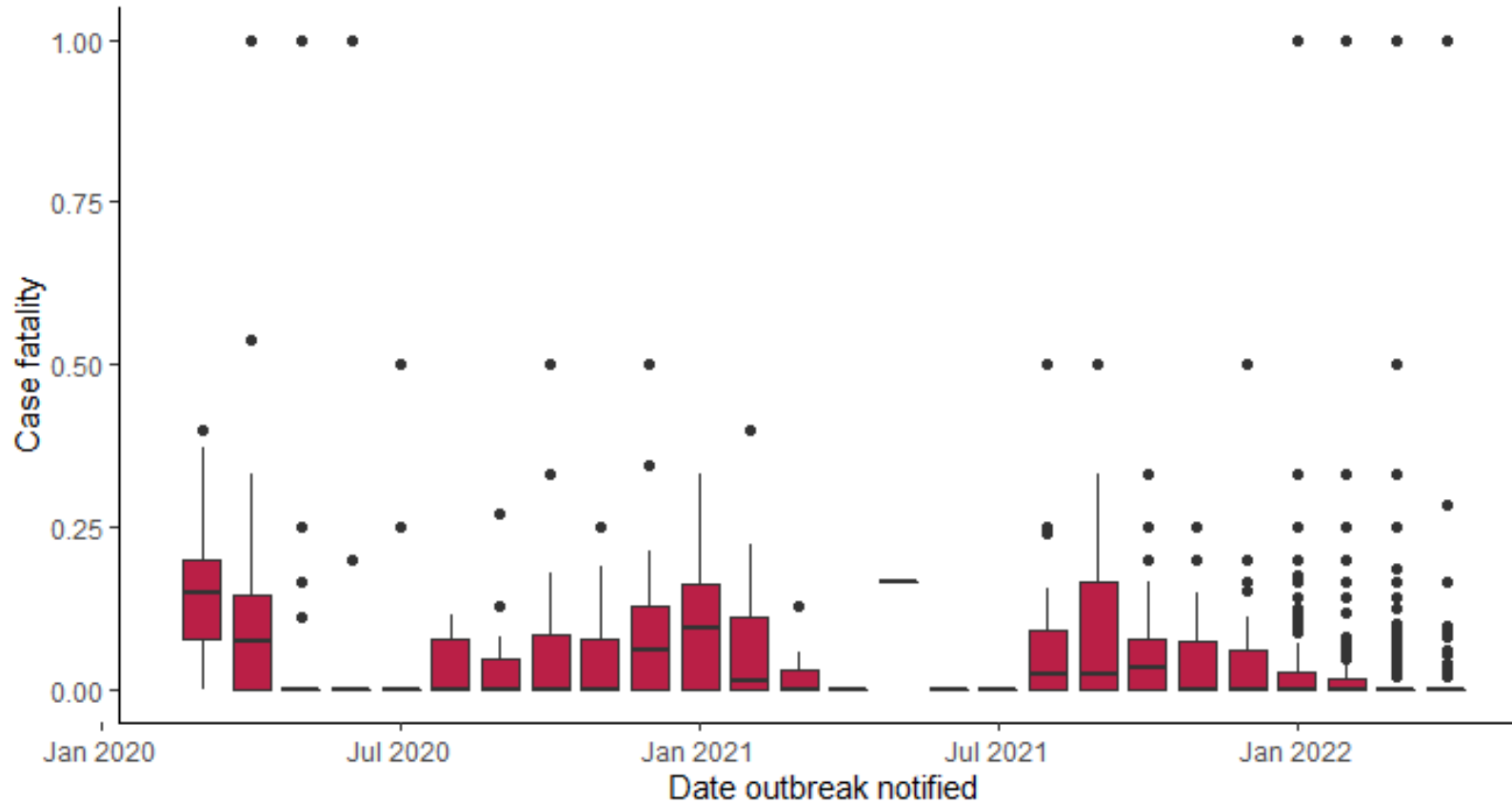
The median number of deaths per outbreak has remained relatively low since the vaccination programme commenced in January/February 2021.

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



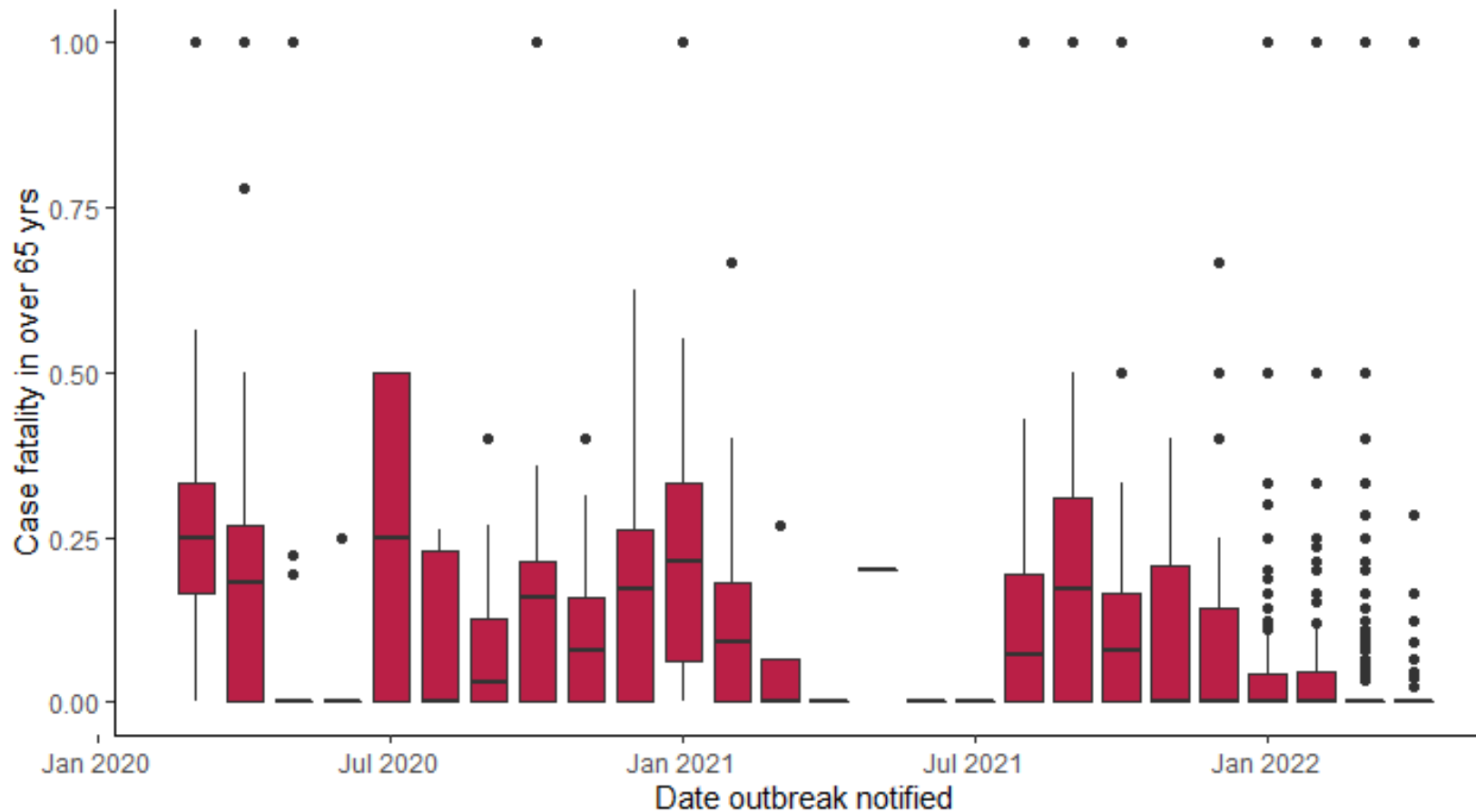
The median outbreak case fatality has remained relatively low since the vaccination programme commenced in January/February 2021.

The monthly median outbreak case fatality has remained at zero since November 2021 (Note: data for March and April 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 November 2021 (note: data for March and April 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