



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

Week 24 2022

Health Protection Surveillance Centre, June 22nd 2022

Dates to note:

- Week 24 2022 (June 12th-18th 2022)
- Week 10 2020 (1st to 7th April 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 22/06/2022. 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 June 18th 2022 (week 23) and extracted from CIDR at 9am on June 22nd 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



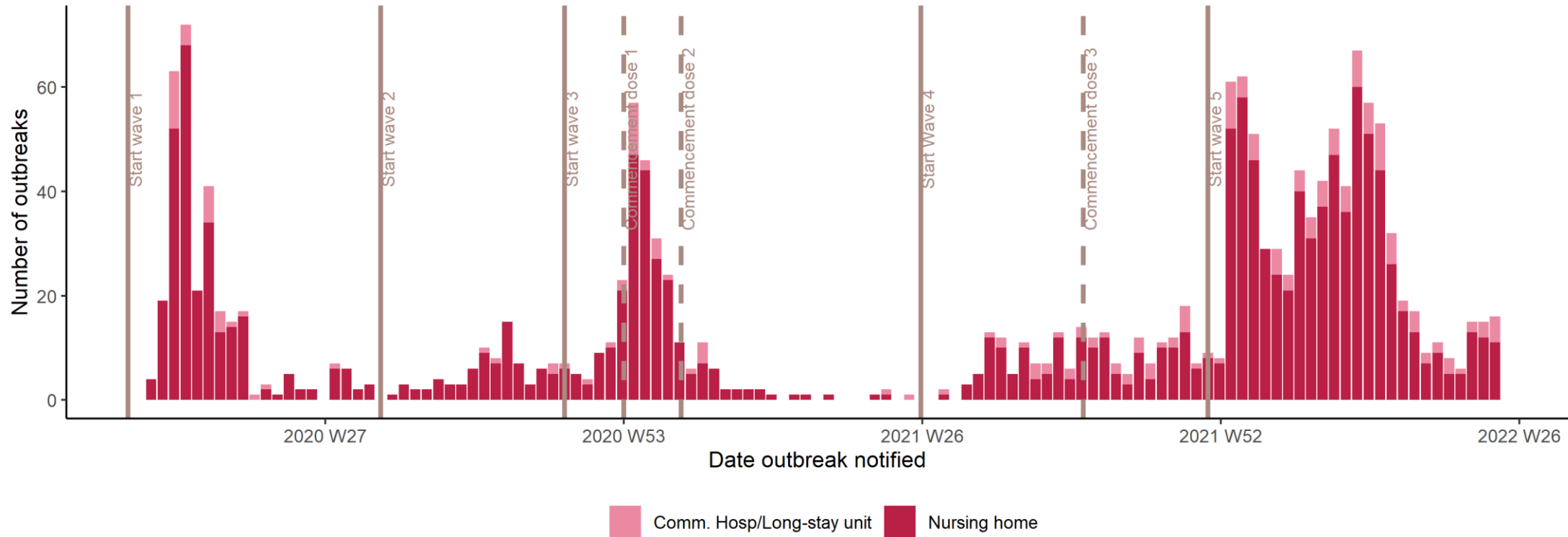
Wave	Outbreak			Confirmed cases for which disaggregate data are available				
	Number of outbreaks	Number of cases*	Number of deaths [#]	Number	Number hospitalised	Number admitted to ICU	Number hospitalised and died	Number who died
Wave 1 (weeks 10-31 2020)	301	6658	1104	6251	474	16	193	885
Wave 2 (weeks 32-47 2020)	80	1571	139	1555	90	<5	25	134
Wave 3 (week 48 2020 - week 25 2021)	267	8379	1044	8332	576	12	200	1033
Wave 4 (weeks 26-50 2021)	202	2902	217	2712	190	<5	50	206
Wave 5 (weeks 51 2021 – week 24 2022)	812	16341	337	11393	601	<5	73	298
Total	1662	35851	2841	30243	1931	37	541	2556

*the larger between the aggregate number of confirmed cases reported or the number of confirmed linked cases. In wave 5, includes cases confirmed by PCR or Antigen testing

[#]the larger between the aggregate number of outbreak deaths reported and the number of linked cases (confirmed and probable) who died.

- Overall, there have been 1,662 COVID-19 outbreaks in Nursing homes and Community Hospitals
- Disaggregate data are available for 30,243 of the 35,851 associated cases (84%)
- 1,931 of 30,243 laboratory confirmed outbreak cases for which disaggregate data are available have been hospitalised (6.4%)
- 2,556 deaths have been reported among confirmed outbreak cases in these settings for which disaggregate data are available (8.5%)

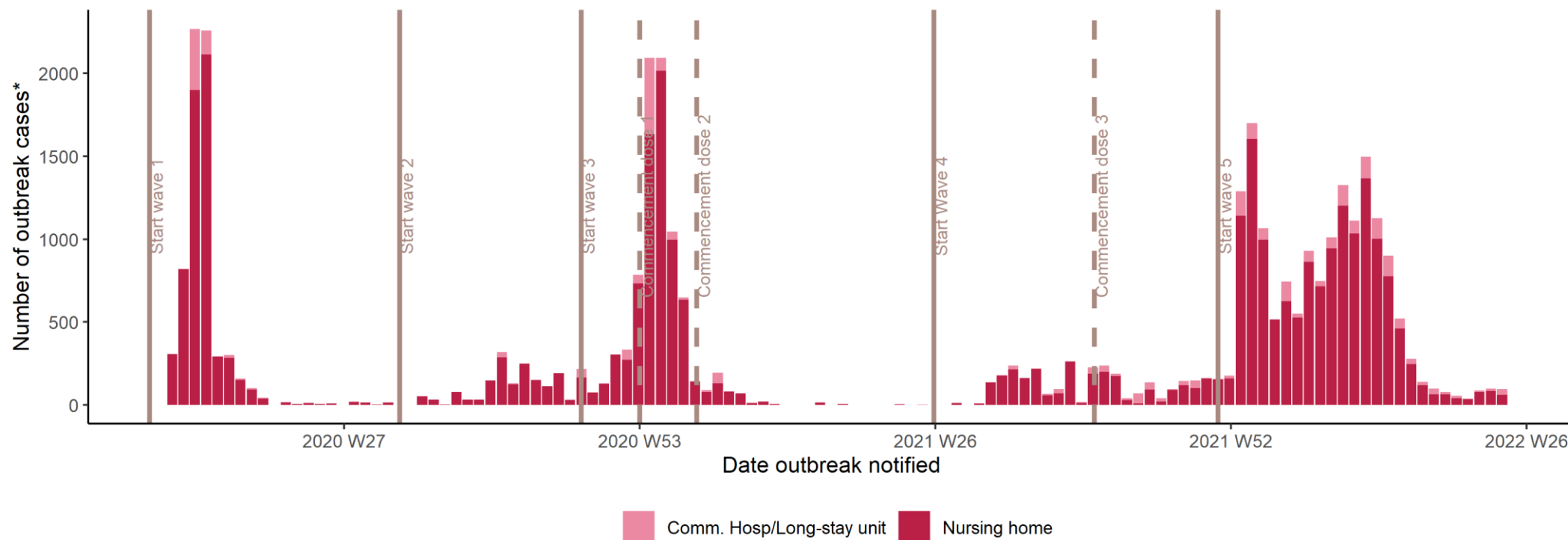
Weekly number of COVID-19 outbreaks in Nursing Homes and Community Hospitals, Waves 1-5



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).

Following a decline in outbreak numbers to week 21 2022 (6 outbreaks), in weeks 22-24, 15-16 outbreaks were reported each week

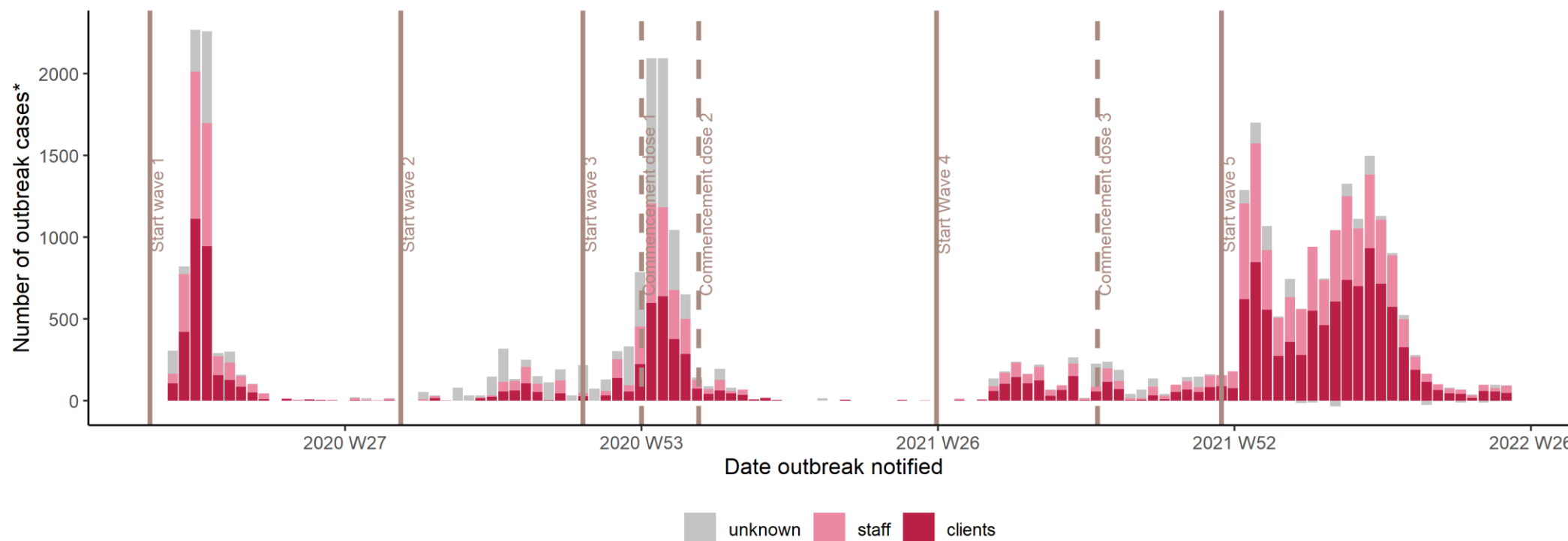
Cases associated with COVID-19 outbreaks in Nursing Homes and Community Hospitals, Waves 1 to 5



For outbreaks reported in week 24 2022, the number of outbreak associated cases was 96. 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

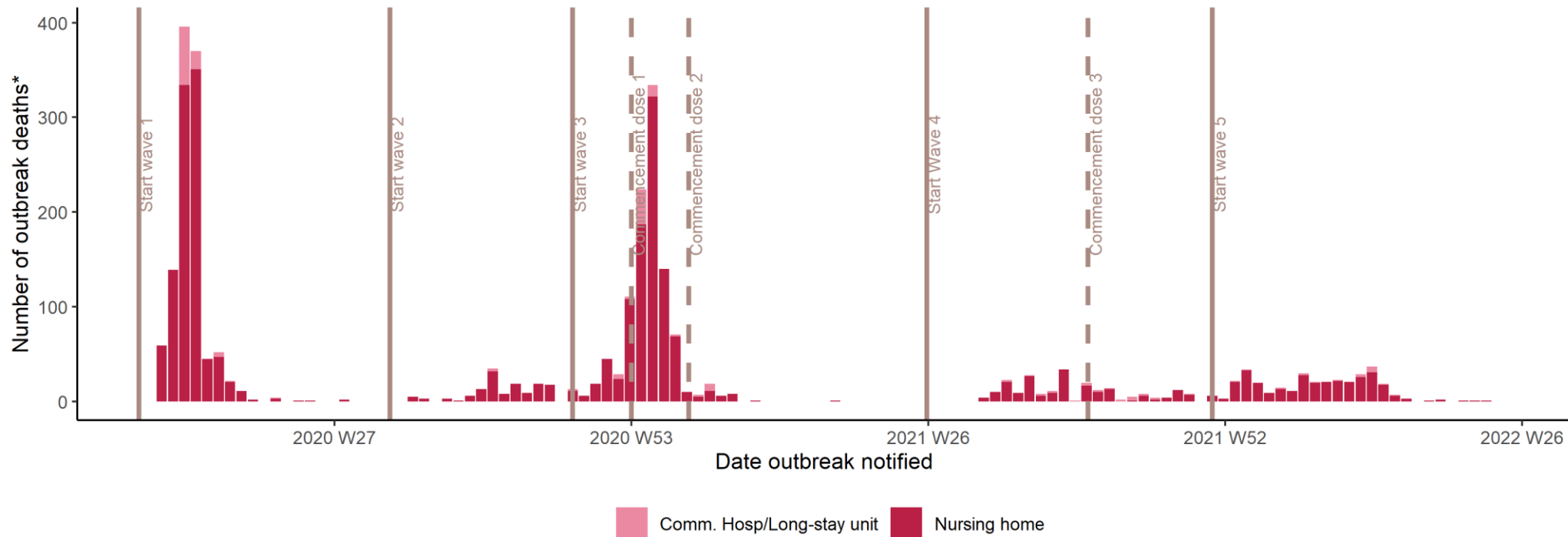
Cases associated with COVID-19 outbreaks in Nursing Homes and Community Hospitals by healthcare worker status, Waves 1 to 5



In week 24, 46 outbreak associated cases (48%) were among staff and 47 (49%) among residents, with HCW status of 9 cases (3%) not reported

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 associated with COVID-19 outbreaks in Nursing Homes and Community Hospitals by week of outbreak notification, waves 1 -5



In wave 5, the highest number of deaths associated with outbreaks reported in a single week was 37. This compares to 396 deaths associated with outbreaks reported in week 14 2020, and 334 deaths associated with outbreaks reported in week 2 2021

Note: Number of associated deaths is based on the larger between the aggregate number of deaths reported and the number of linked cases who died (confirmed and probable) per outbreak

Disease severity among confirmed cases linked to outbreaks in Nursing Homes and Community Hospitals for which disaggregate data are available, 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	4037	101	2.5%	8	0.2%	18	0.4%
	Wave 4	1180	16	1.4%	<5	0.2%	7	0.6%
	Wave 5	4578	76	1.7%	<5	0.0%	<5	0.1%
65+ yrs	Wave 1	3577	386	10.8%	11	0.3%	865	24.2%
	Wave 2	776	75	9.7%	<5	0.1%	133	17.1%
	Wave 3	4295	475	11.1%	<5	0.1%	1015	23.6%
	Wave 4	1532	174	11.4%	<5	0.1%	199	13.0%
	Wave 5	6815	525	7.7%	<5	0.1%	294	4.3%
All ages	Wave 1	6251	474	7.6%	16	0.3%	885	14.2%
	Wave 2	1555	90	5.8%	<5	0.1%	134	8.6%
	Wave 3	8332	576	6.9%	12	0.1%	1033	12.4%
	Wave 4	2712	190	7.0%	<5	0.1%	206	7.6%
	Wave 5	11393	601	5.3%	5	0.0%	298	2.6%

The percentage of cases 65 years or older who died among confirmed cases linked to outbreaks notified in wave 5 was 4.3%, compared to between 13.0% and 24.2% in waves 1-4

Note: disease severity information is only available 11,393/16,341 (70%) cases in wave 5, and deaths may still accrue among known cases

Burden of disease associated with COVID-19 outbreaks in Nursing Homes and Community Hospitals, Wave 5 (weeks 51 2021 to week 24 2022)



Outbreaks Location ⁷	Outbreak			Confirmed cases for which disaggregate data are available				
	Number of outbreaks	Number of cases*	Number of deaths [#]	Number	Number hospitalised	Number admitted to ICU	Number hospitalised and died	Number who died
Comm. Hosp/Long-stay unit	103	1462	19	1083	157	<5	7	16
Nursing home	709	14879	318	10310	444	<5	66	282
Total	812	16341	337	11393	601	5	73	298

*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

[#]the larger between the aggregate number of outbreak deaths reported and the number of linked cases (confirmed and probable) who died.

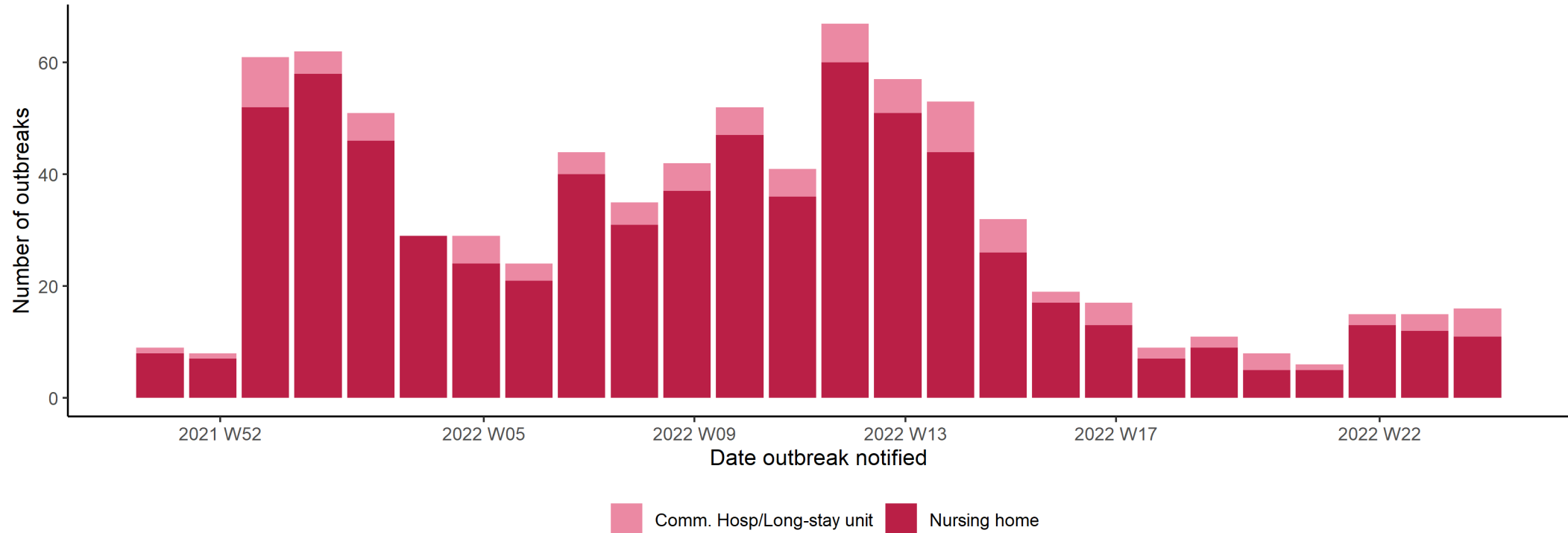
Wave 5:

- 812 outbreaks in wave 5
- 16,341 cases were reported associated with these outbreaks, of which there was disaggregate data available on 11,393 confirmed cases (70%)
- Overall, there were 337 outbreak associated deaths among the 16,341 cases reported (2.1%).
- 601 of 11,393 confirmed outbreak cases for which disaggregate data are available (5.3%) were hospitalised (age range 18-106 yrs, median 83 yrs).
- 298 of 11,393 confirmed outbreak cases for which disaggregate data are available (2.6%) died (age range 52-103 yrs, median 87 yrs).

Week 24 2022

- Sixteen new outbreaks -96 associated cases (range 0-15 cases per outbreak)

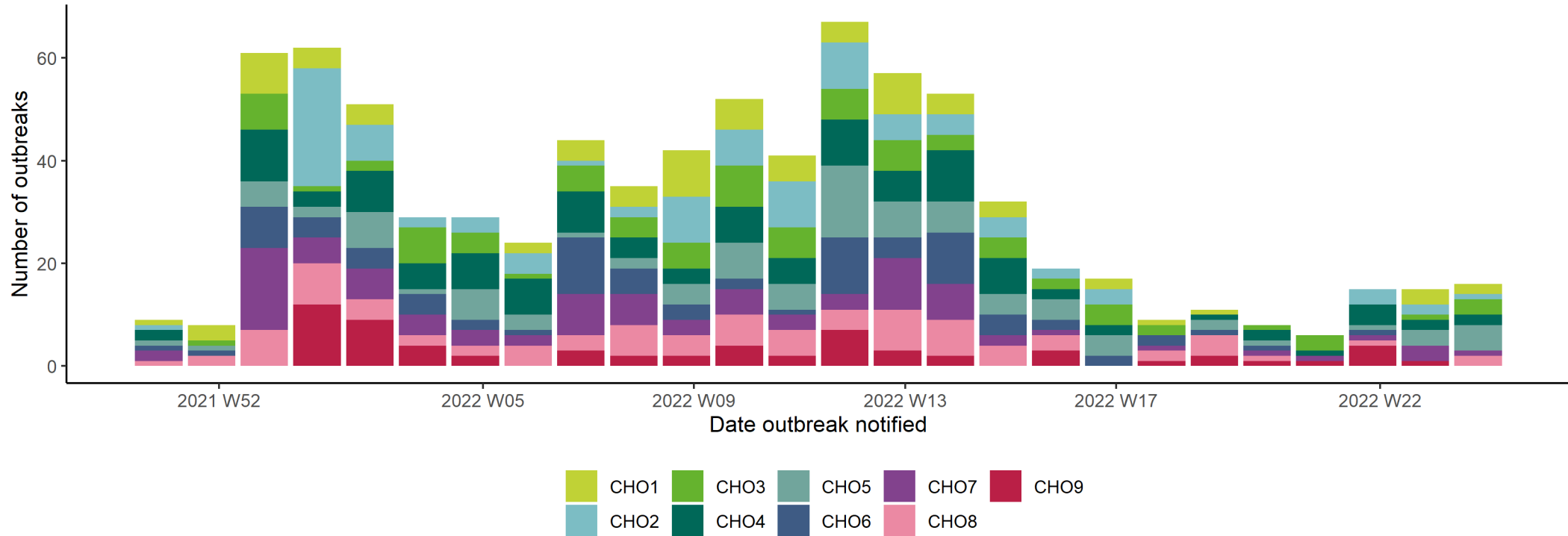
Weekly number of COVID-19 outbreaks in Nursing Homes and Community Hospitals, Waves 5 (week 51 2021 – week 24 2022)



Waves 5:

- 912 nursing home and community hospital/long stay unit COVID-19 outbreaks notified
- The distribution of outbreaks was bimodal in wave 5, with peaks in the number of outbreaks in week 2 and week 12 2022. Following a gradual decrease in the number of outbreaks to 6 in week 21 2022, this has increased again to 16 in week 24 2022

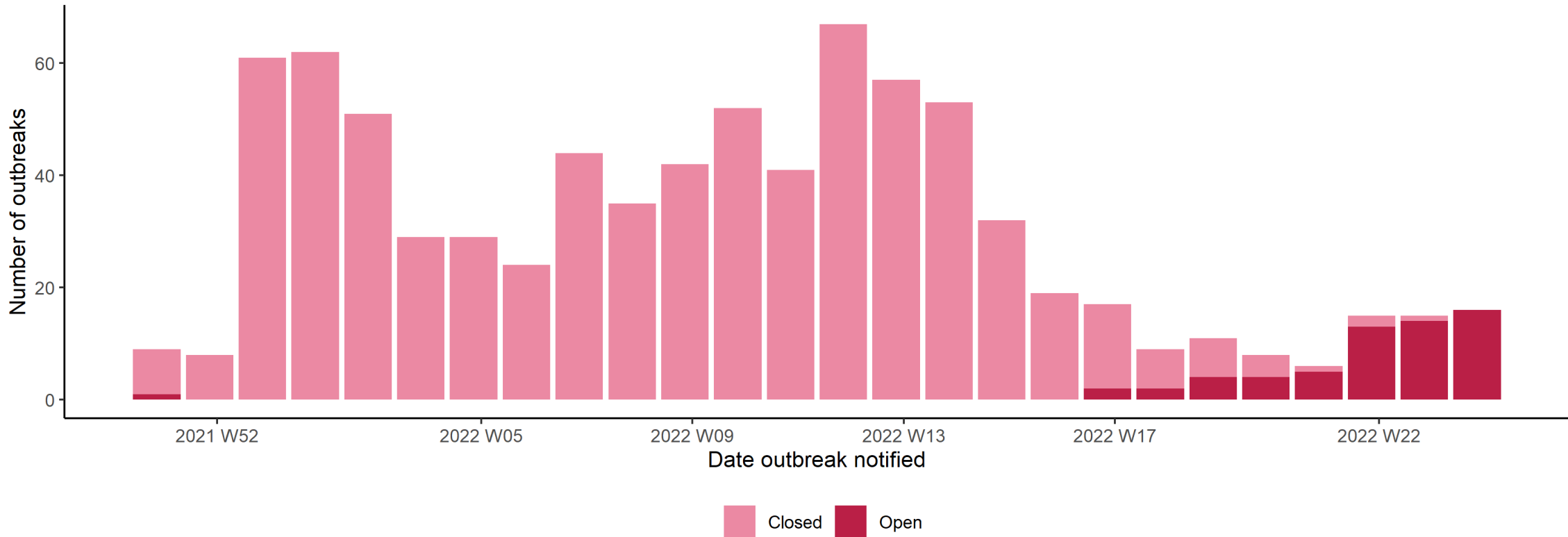
Regional distribution of outbreaks in Nursing Home and Community Hospitals, Waves 5 (week 51 2021 – week 24 2022)



Wave 5:

- The highest number of outbreaks was reported in CHO4 (117 outbreaks) followed by CHO2 (101 outbreaks)
- Seven CHOs were represented in the 16 outbreaks notified in week 24 2022

Open and closed outbreaks by week in Nursing Home and Community Hospitals, Wave 5 (week 51 2021 to week 24 2022)



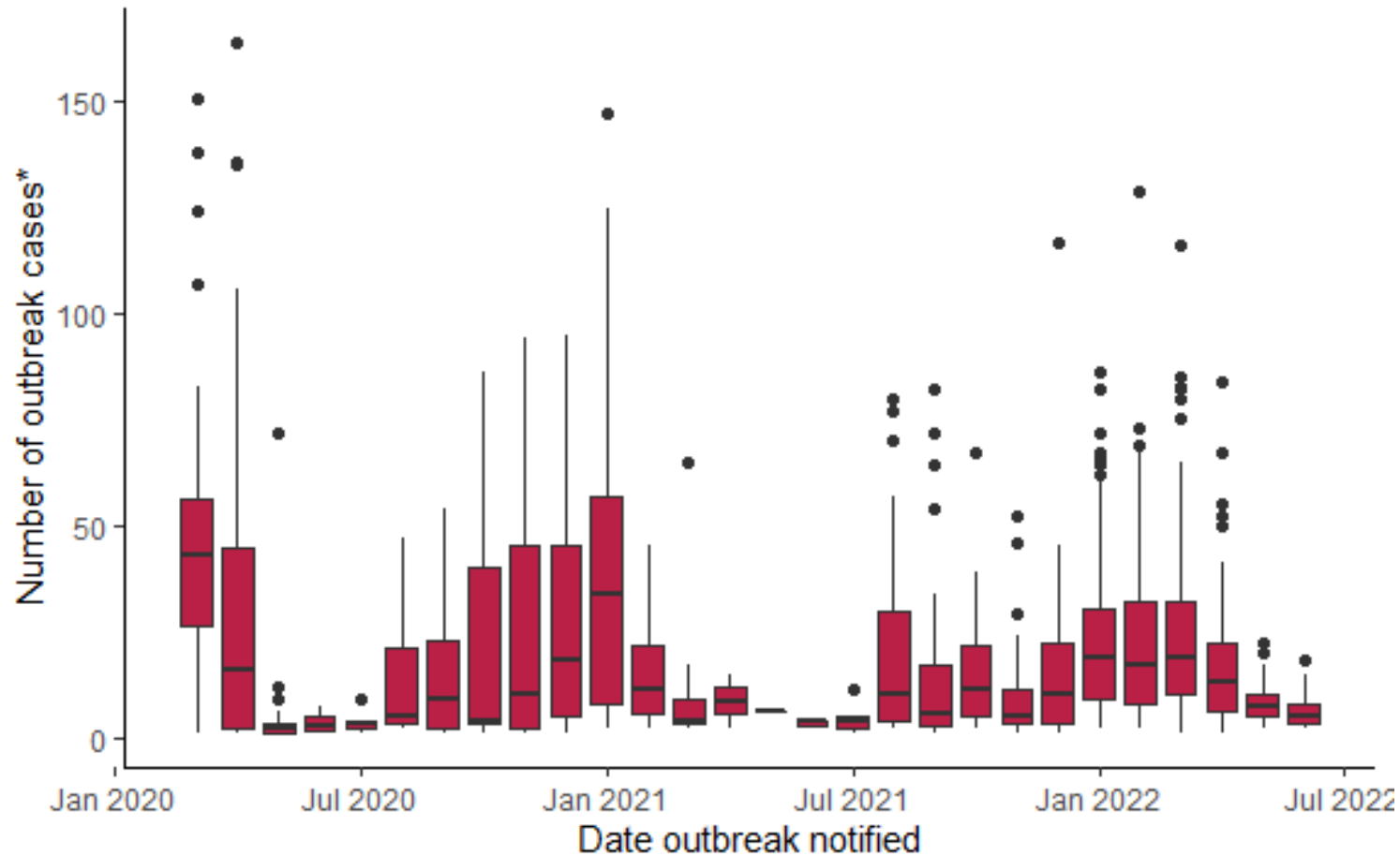
- On CIDR, 61 outbreaks are reported as being still open in these settings

Outcomes among confirmed cases linked to outbreaks in Nursing Homes and Community Hospitals for which disaggregate data are available, by age group, Wave 5 (week 51 2021 to week 24 2022)

Age group	Number	Number hospitalised	% hospitalised	Number admitted to ICU	% ICU	Number who died	% died
<45 yrs	2666	34	1.3%	<5	0.0%	<5	0.0%
45-64 yrs	1912	42	2.2%	<5	0.0%	<5	0.2%
65-74 yrs	872	61	7.0%	<5	0.1%	19	2.2%
75-84 yrs	2395	213	8.9%	<5	0.1%	79	3.3%
85+ yrs	3548	251	7.1%	<5	0.0%	196	5.5%
Total	11393	601	5.3%	5	0.0%	298	2.6%

Note: disease severity information is only available for 11,393/16,341 (70%) cases in wave 5, and deaths may still accrue among known cases

Distribution of outbreak size* by month of outbreak notification

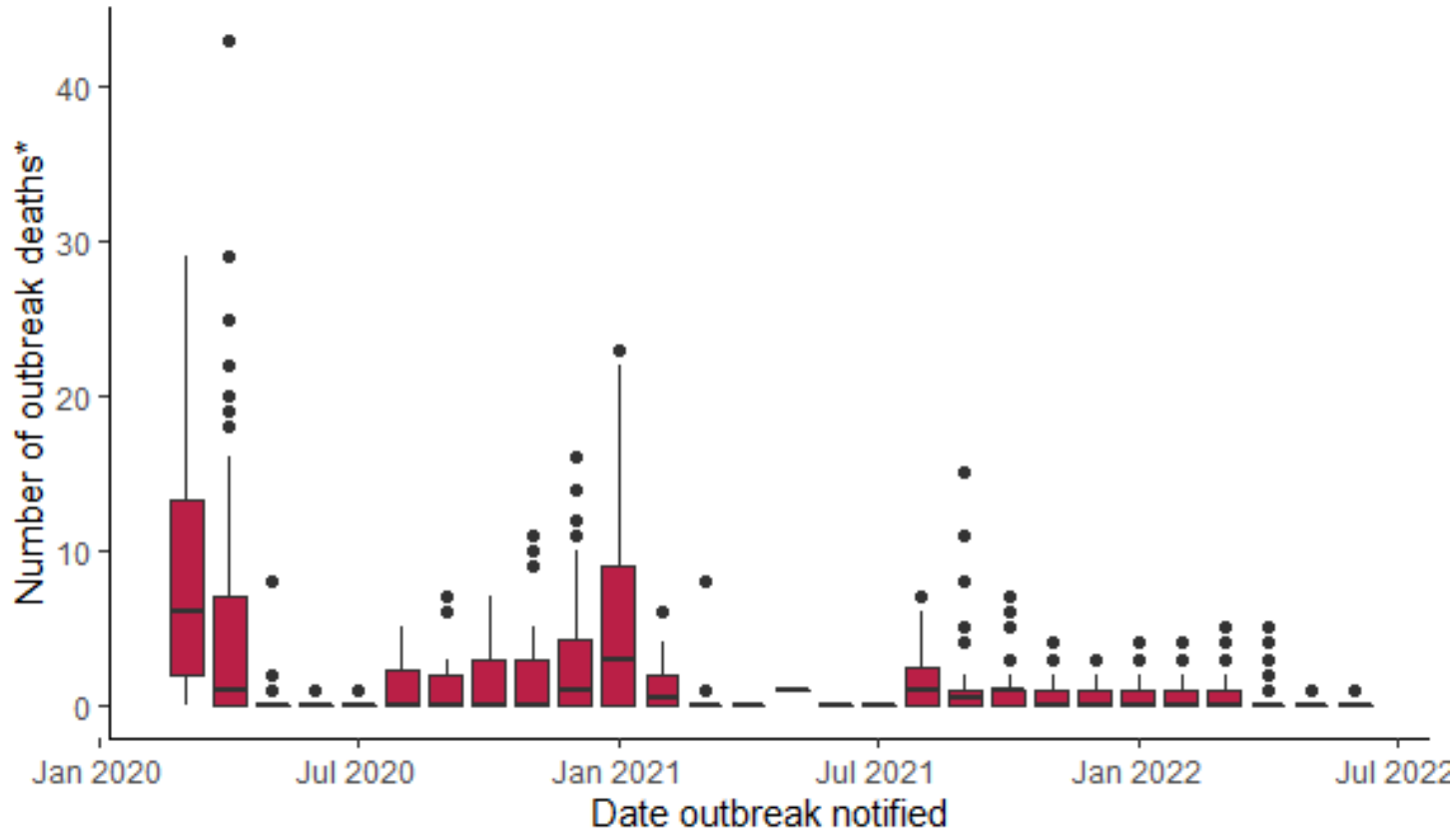


The median outbreak size has remained relatively low since the vaccination programme commenced in January/February 2021

The median outbreak size for outbreaks reported in January 2022 increased to 19, reduced to 13 in April, and is 5 in June to date (Note: data for May and June likely incomplete)

*Outbreak sizes based on the larger between the aggregate number of confirmed cases reported and the number of confirmed linked cases

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



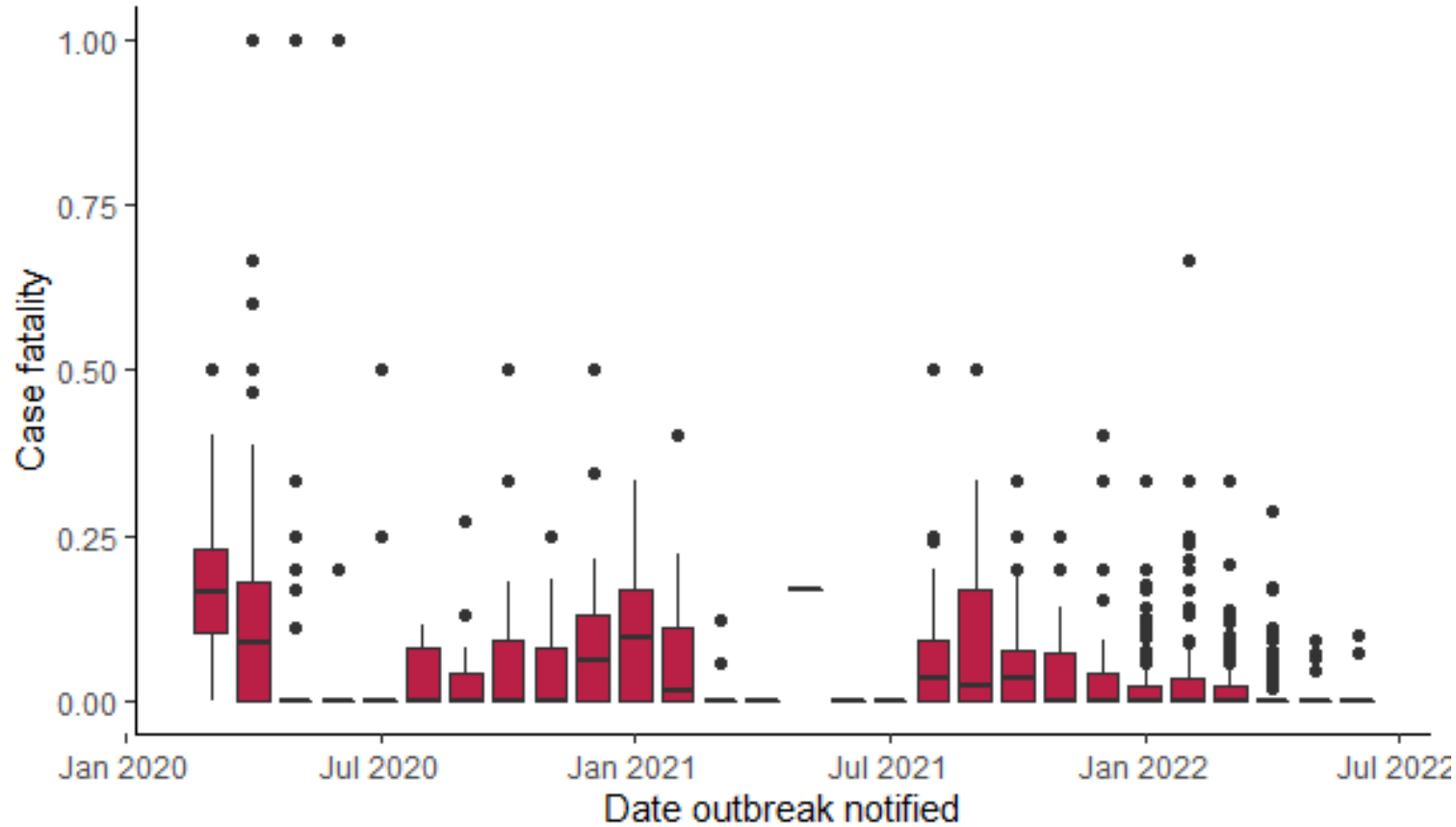
The median number of deaths per outbreak has remained relatively low since the vaccination programme commenced in January/February 2021.

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

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

Note: Number of associated deaths is based on the larger between the aggregate number of deaths reported and the number of linked cases who died (confirmed and probable). Only outbreaks with case information (aggregate or disaggregate) 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 May and June likely incomplete)

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

Note: Case fatality is calculated as the number of associated deaths (defined slide 15) as a percentage of the outbreak size (defined slide 14). Only outbreaks with case information (aggregate or disaggregate) are included in this calculation