



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

Week 33 2022

Health Protection Surveillance Centre, August 24th 2022

Dates to note:

- Week 33 2022 (August 14th -20th 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 24/08/2022. 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 August 20th 2022 (week 33 and extracted from CIDR at 8.30 am on August 24th 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



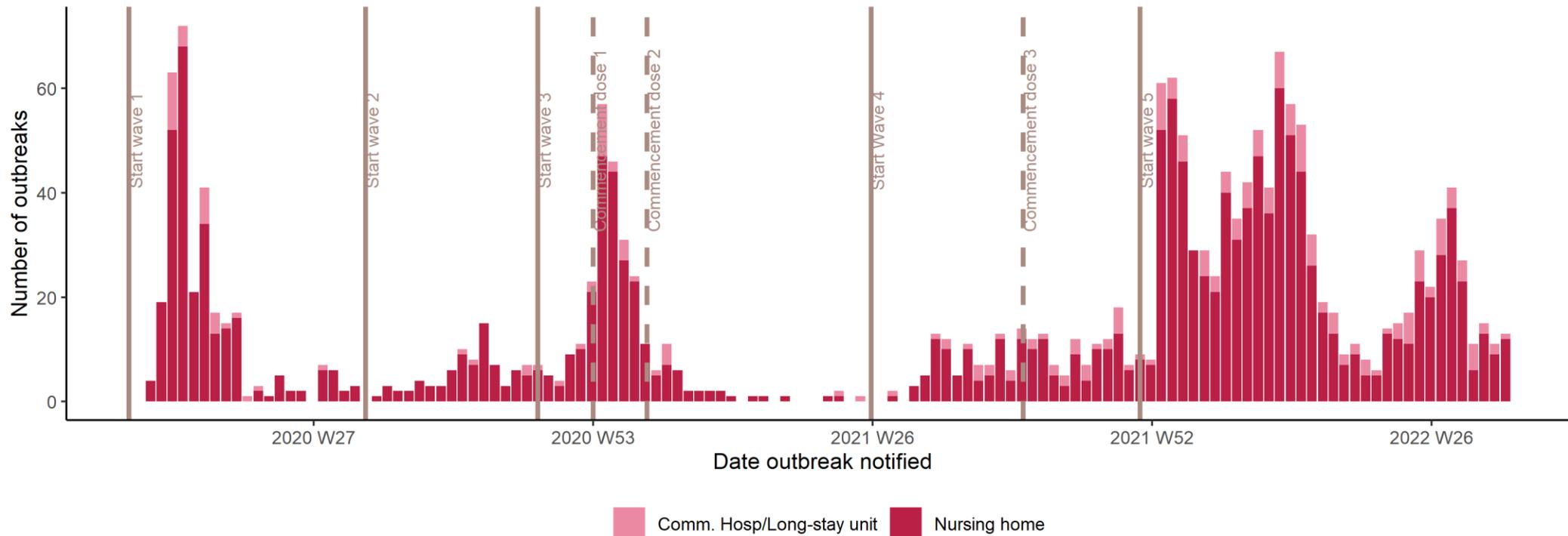
Wave	Outbreak			Confirmed cases for which disaggregate data are available				
	Number of outbreaks	Number of cases*	Number of deaths [#]	Number	Number hospitalised	Number admitted to ICU	Number hospitalised and died	Number who died
Wave 1 (weeks 10-31 2020)	301	6658	1104	6251	474	16	193	885
Wave 2 (weeks 32-47 2020)	80	1571	139	1555	90	<5	25	134
Wave 3 (week 48 2020 - week 25 2021)	267	8379	1046	8332	577	12	200	1034
Wave 4 (weeks 26-50 2021)	202	2902	217	2713	190	<5	50	206
Wave 5 (weeks 51 2021 – week 33 2022)	1016	18402	400	12368	775	5	87	341
Total	1866	37912	2906	31219	2106	37	555	2600

*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 1,866 COVID-19 outbreaks in Nursing homes and Community Hospitals
- Disaggregate data are available for 31,219 of the 37,912 associated cases (82%)
- 2,106 of 31,219 laboratory confirmed outbreak cases for which disaggregate data are available have been hospitalised (6.7%)
- 2,600 deaths have been reported among confirmed outbreak cases in these settings for which disaggregate data are available (8.3%)

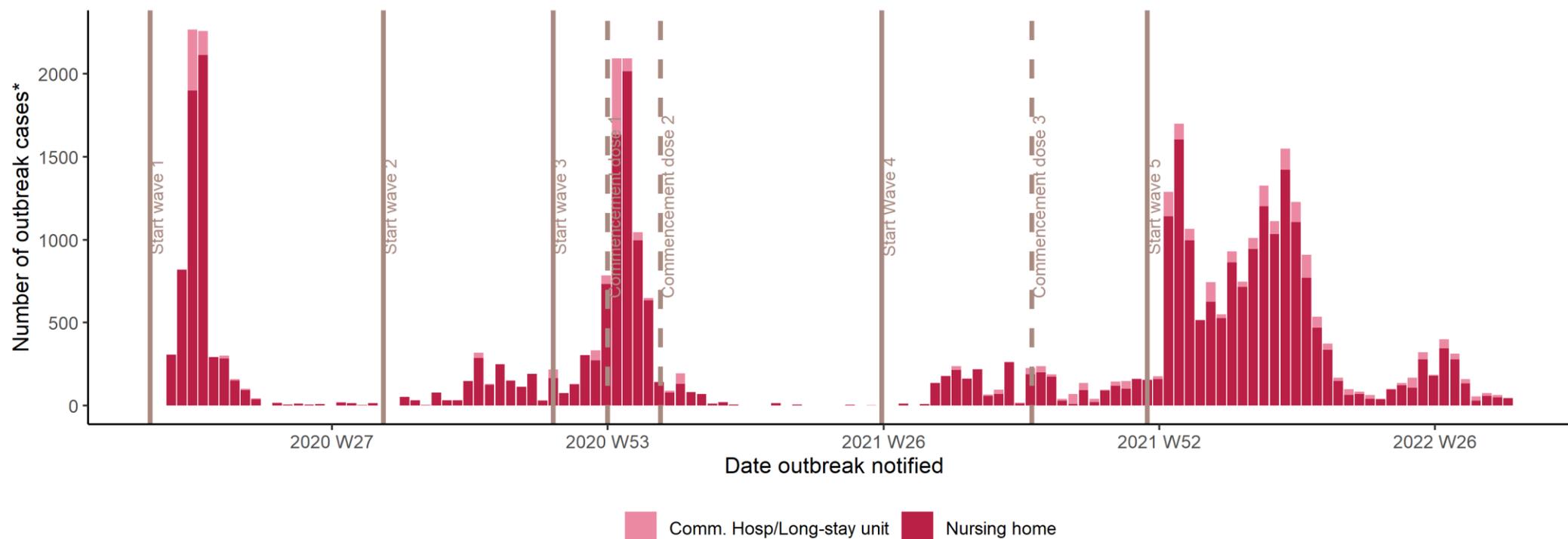
Weekly number of COVID-19 outbreaks in Nursing Homes and Community Hospitals, Waves 1-5



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 33, there 13 outbreaks in these settings

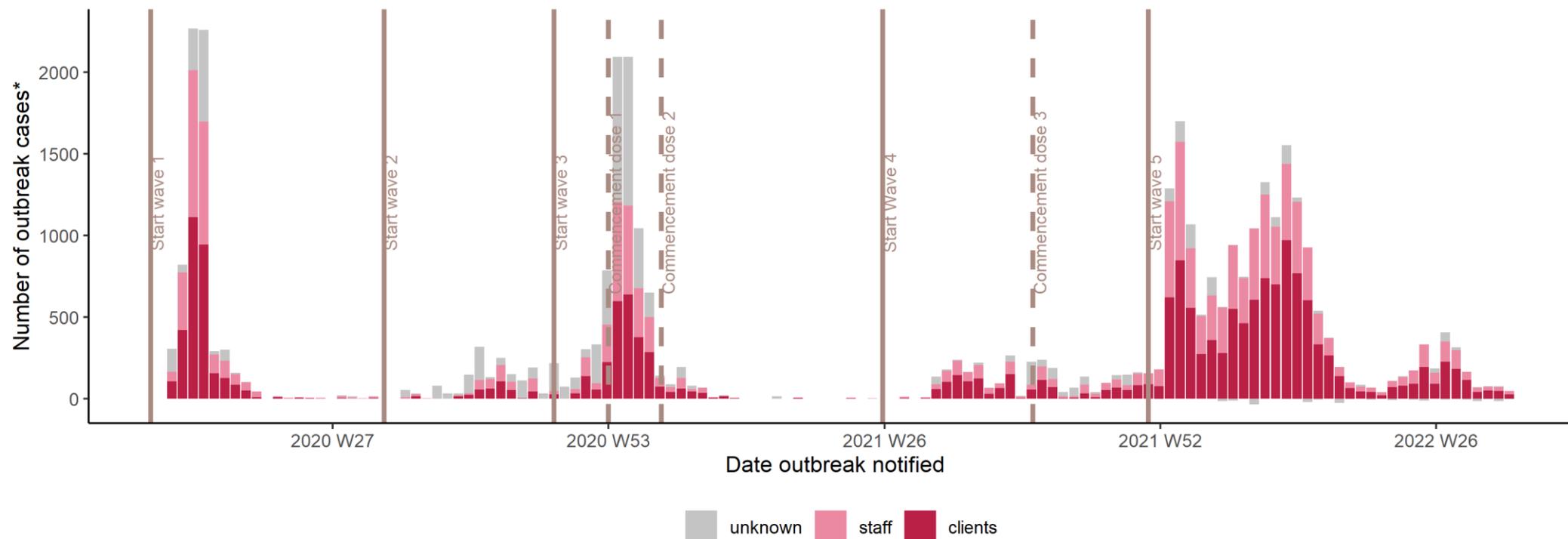
Cases associated with COVID-19 outbreaks in Nursing Homes and Community Hospitals, Waves 1 to 5



For outbreaks reported in week 33 2022, the number of outbreak associated cases was 46. 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

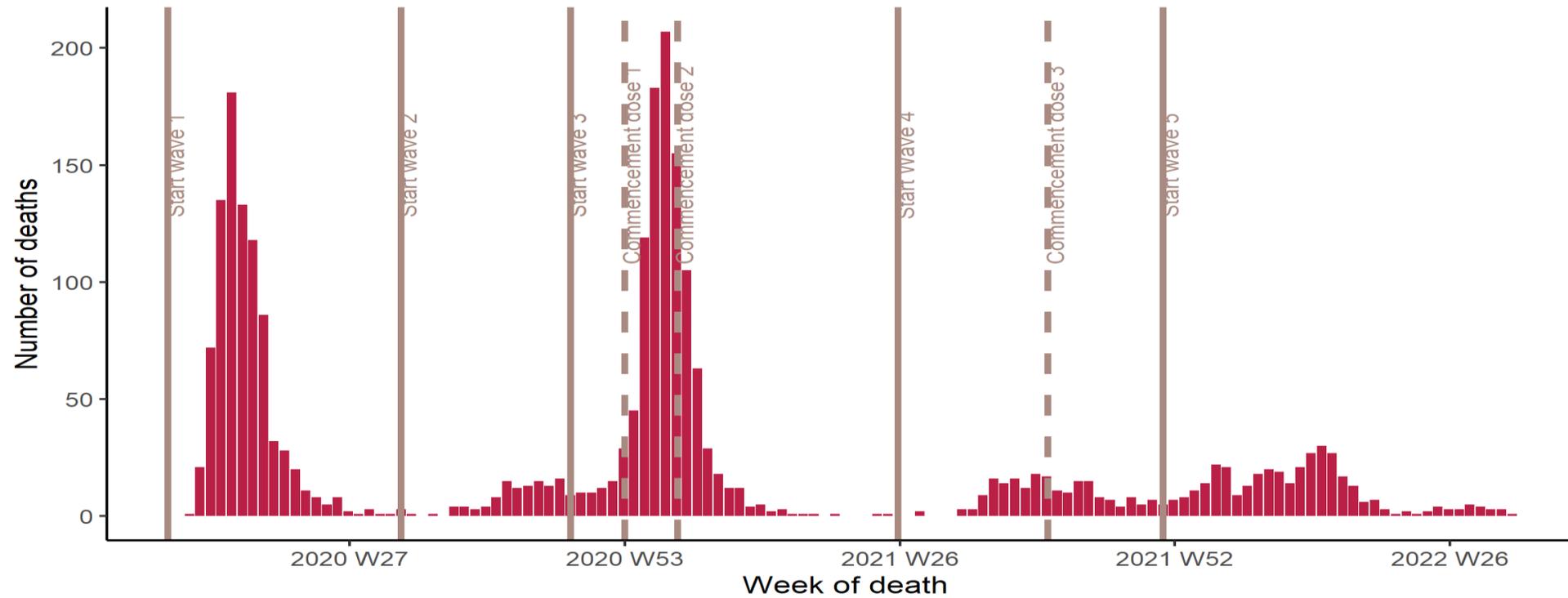
Cases associated with COVID-19 outbreaks in Nursing Homes and Community Hospitals by healthcare worker status, Waves 1 to 5



In week 33, 19 outbreak associated cases (41%) were among staff and 27 (59%) 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 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 45 in week 13. 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	102	2.5%	8	0.2%	18	0.4%
	Wave 4	1181	16	1.4%	<5	0.2%	7	0.6%
	Wave 5	4962	90	1.8%	<5	0.0%	6	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%	1016	23.7%
	Wave 4	1532	174	11.4%	<5	0.1%	199	13.0%
	Wave 5	7406	685	9.2%	<5	0.1%	335	4.5%
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	577	6.9%	12	0.1%	1034	12.4%
	Wave 4	2713	190	7.0%	<5	0.1%	206	7.6%
	Wave 5	12368	775	6.3%	5	0.0%	341	2.8%

The percentage of cases 65 years or older who died among confirmed cases linked to outbreaks notified in wave 5 was 4.5%, compared to between 13.0% and 24.2% in waves 1-4

Note: disease severity information is only available 12,368/18,402 (67%) 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 (week 51 2021 to week 33 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	136	1738	27	1255	216	<5	11	22
Nursing home	880	16664	373	11113	559	<5	76	319
Total	1016	18402	400	12368	775	5	87	341

*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.

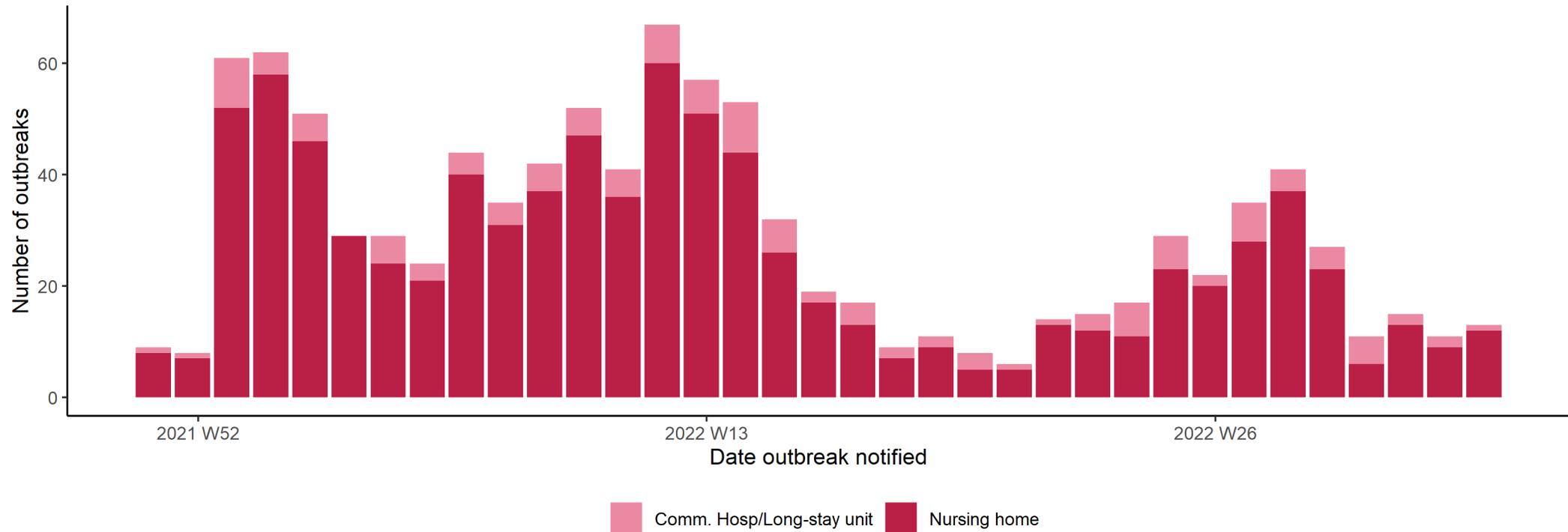
Wave 5:

- 1,016 outbreaks in wave 5
- 18,402 cases were reported associated with these outbreaks, of which there was disaggregate data available on 12,368 confirmed cases (67%)
- Overall, there were 400 outbreak associated deaths among the 18,402 cases reported (2.2%).
- 775 of 12,368 confirmed outbreak cases for which disaggregate data are available (6.2%) were hospitalised (age range 18-106 yrs, median 83 yrs).
- 341 of 12,368 confirmed outbreak cases for which disaggregate data are available (2.8%) died (age range 33-103 yrs, median 88 yrs).

Week 33 2022

- Thirteen new outbreaks -46 associated cases (range 2-7 cases per outbreak)

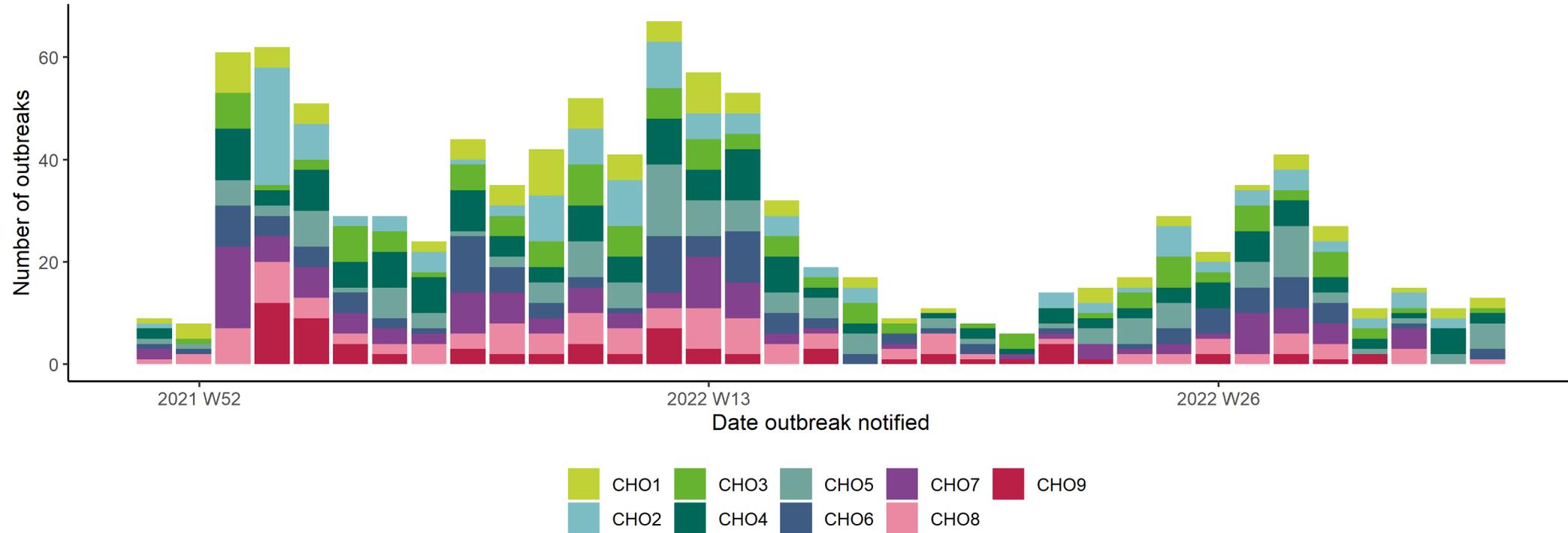
Weekly number of COVID-19 outbreaks in Nursing Homes and Community Hospitals, Wave 5 (week 51 2021 – week 33 2022)



Waves 5:

- 1,016 nursing home and community hospital/long stay unit COVID-19 outbreaks notified
- The distribution of outbreaks reflects the rise of different Omicron sublineages, with peaks in the number of outbreaks in week 2, week 12 and week 28 2022. In week 33, there were 13 outbreaks

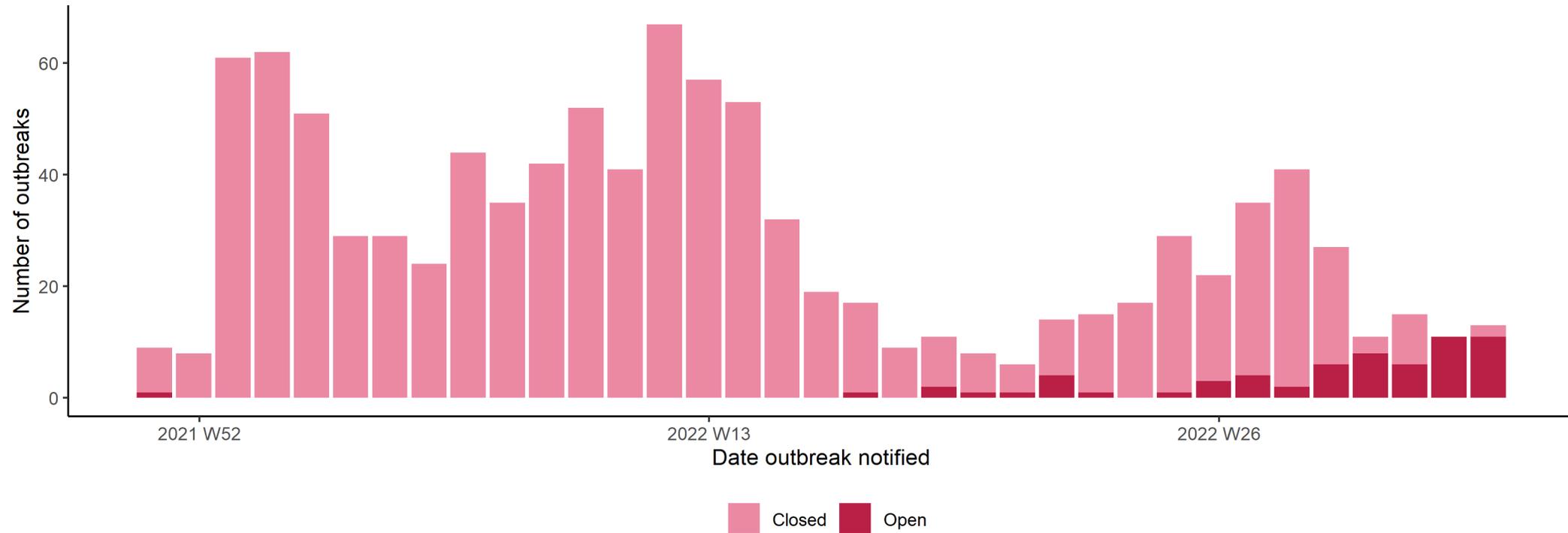
Regional distribution of outbreaks in Nursing Home and Community Hospitals, Wave 5 (week 51 2021 – week 33 2022)



Wave 5:

- Six CHOs were represented in the 13 outbreaks notified in week 33 2022

Open and closed outbreaks by week in Nursing Home and Community Hospitals, Wave 5 (week 51 2021 to week 33 2022)



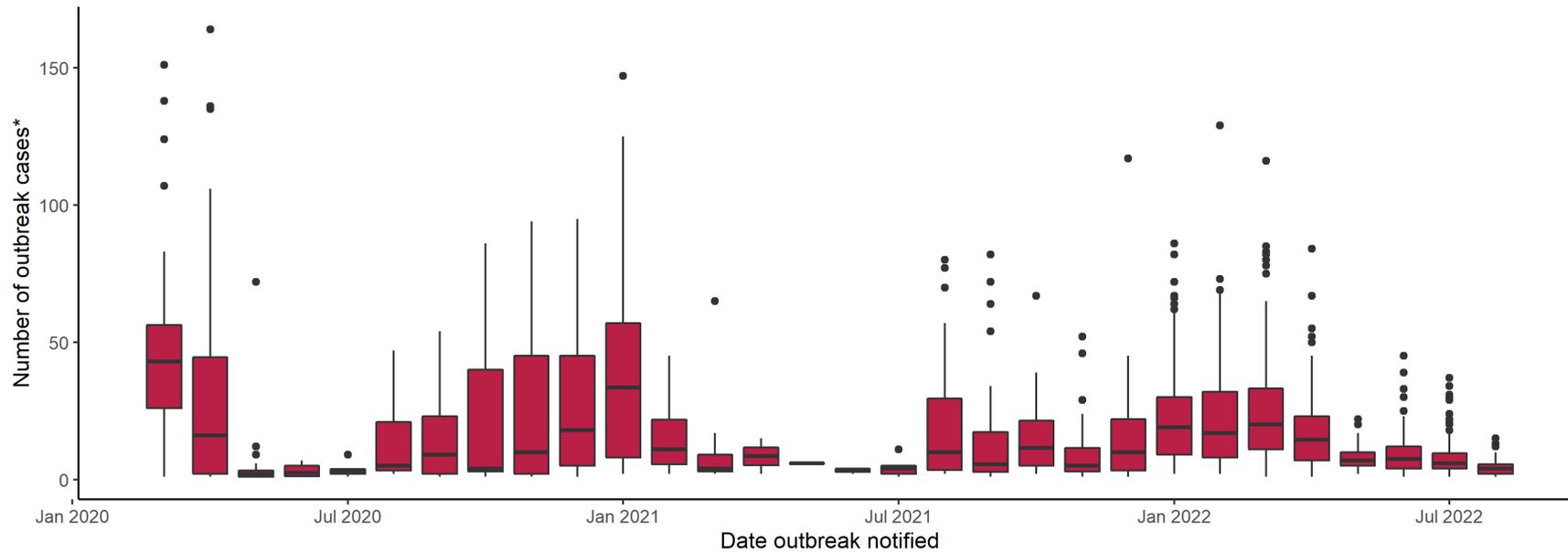
- On CIDR, 63 outbreaks are reported as being still open in these settings

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 28 2022)

Age group	Number	Number hospitalised	% hospitalised	Number admitted to ICU	% ICU	Number who died	% died
<45 yrs	2863	40	1.4%	<5	0.0%	<5	0.0%
45-64 yrs	2099	50	2.4%	<5	0.0%	5	0.2%
65-74 yrs	961	88	9.2%	<5	0.1%	18	1.9%
75-84 yrs	2601	273	10.5%	<5	0.1%	90	3.5%
85+ yrs	3844	324	8.4%	<5	0.0%	227	5.9%
Total	12368	775	6.3%	5	0.0%	341	2.8%

Note: disease severity information is only available for 12,368/18,402 (67%) cases in wave 5, and deaths may still accrue among known cases

Distribution of outbreak size* by month of outbreak notification

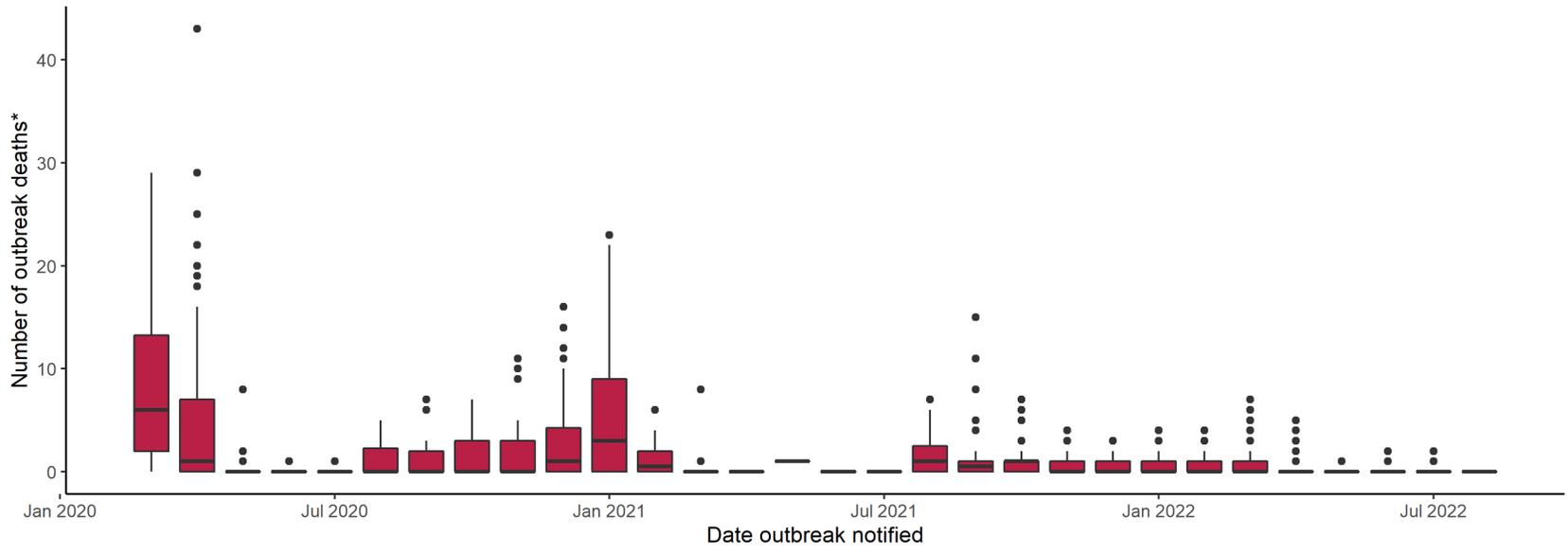


The median outbreak size has remained relatively low since the vaccination programme commenced in January/February 2021

The median outbreak size for outbreaks reported in March 2022 increased to 20, reduced to 6 in July, and is 4 in August to date (Note: data for July and August likely incomplete)

*Outbreak size is 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



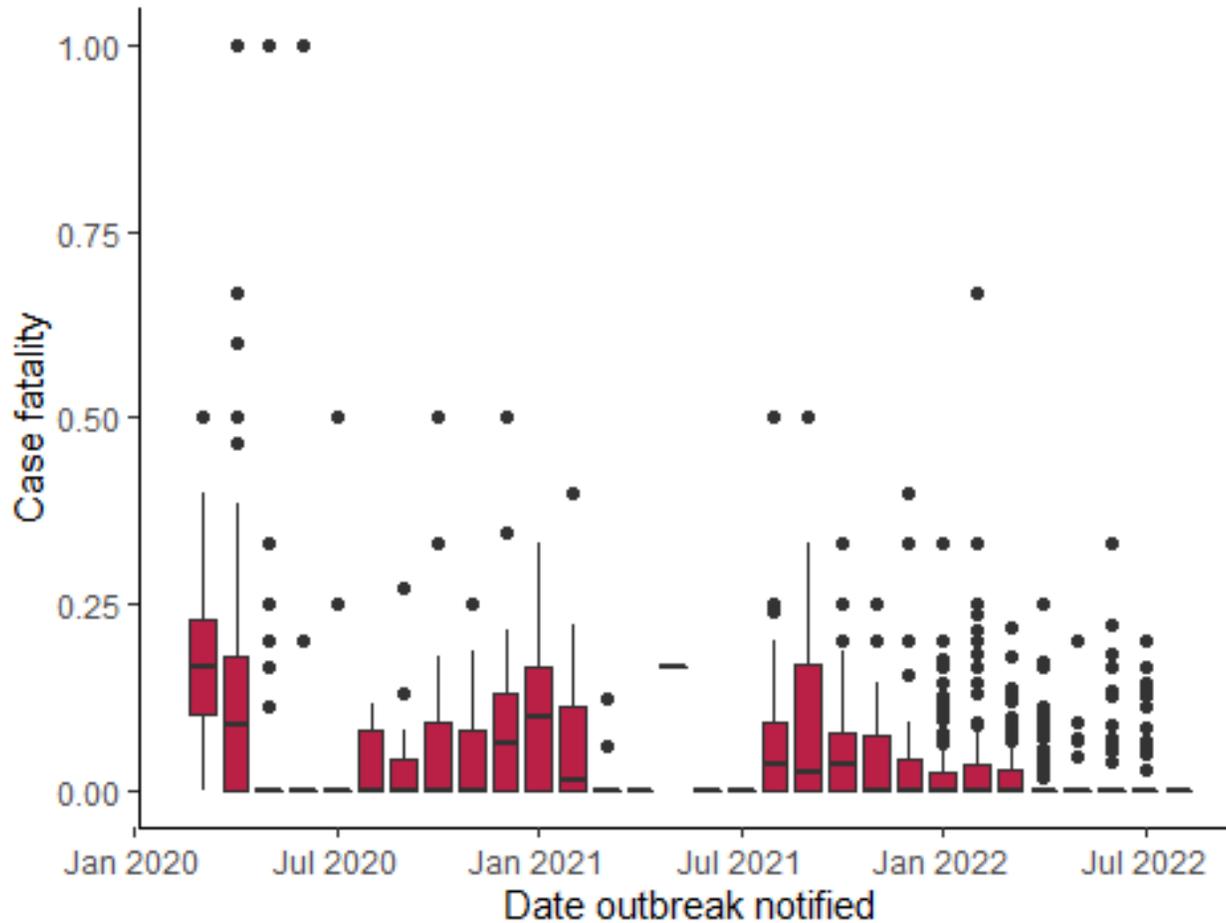
The median number of deaths per outbreak has remained relatively low since the vaccination programme commenced in January/February 2021.

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

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

*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 July and August 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