



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



Week 15 2022

Health Protection Surveillance Centre, April 19th 2022

Dates to note:

- Week 15 2022 (April 10th-16th 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 HPS 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 19/04/2022. 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 16th 2022 (week 15) and extracted from CIDR at 9am on April 19th 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

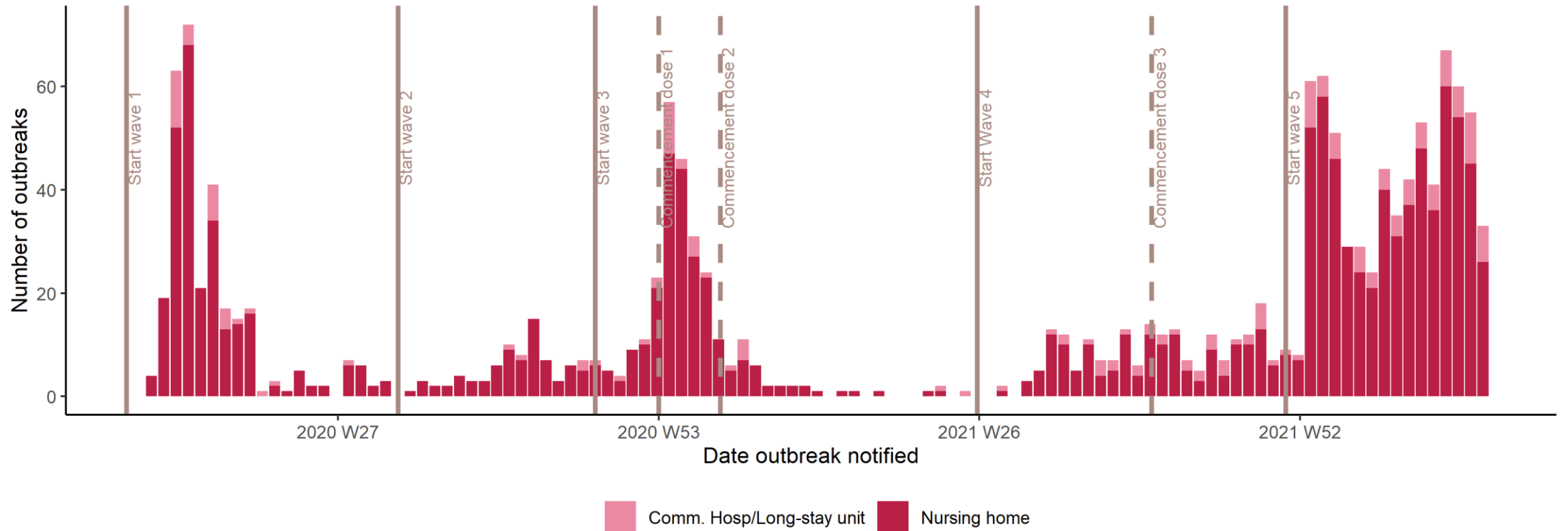


Wave	Outbreak		Linked confirmed cases				
	Number of outbreaks	Number of cases*	Number	Number hospitalised	Number admitted to ICU	Number hospitalised and died	Number who died
Wave 1 (weeks 10-31 2020)	301	6658	6251	476	16	195	886
Wave 2 (weeks 32-47 2020)	80	1571	1555	90	<5	25	134
Wave 3 (week 48 2020 - week 25 2021)	267	8375	8328	577	12	199	1027
Wave 4 (weeks 26-50 2021)	202	2818	2708	190	<5	50	206
Wave 5 (weeks 51 2021 – week 15 2022)	703	13310	9020	381	6	40	178
Total	1553	32732	27862	1714	38	509	2431

*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 1,553 COVID-19 outbreaks in Nursing homes and Community Hospitals
- 1,714 of 27,862 laboratory confirmed outbreak cases have been hospitalised (6.2%)
- 2,431 deaths have been reported among confirmed outbreak cases in these settings (8.7%)

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 15 2022, 33 outbreaks were reported in these settings [Note: the number of outbreaks notified in week 15 may be an underestimate as some outbreaks may be late notified due to the public holiday]

Burden of disease associated with COVID-19 outbreaks in Nursing Homes and Community Hospitals, Wave 5 (weeks 51 2021 to week 15 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	81	1086	803	89	<5	<5	9
Nursing home	622	12224	8217	292	5	36	169
Total	703	13310	9020	381	6	40	178

*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

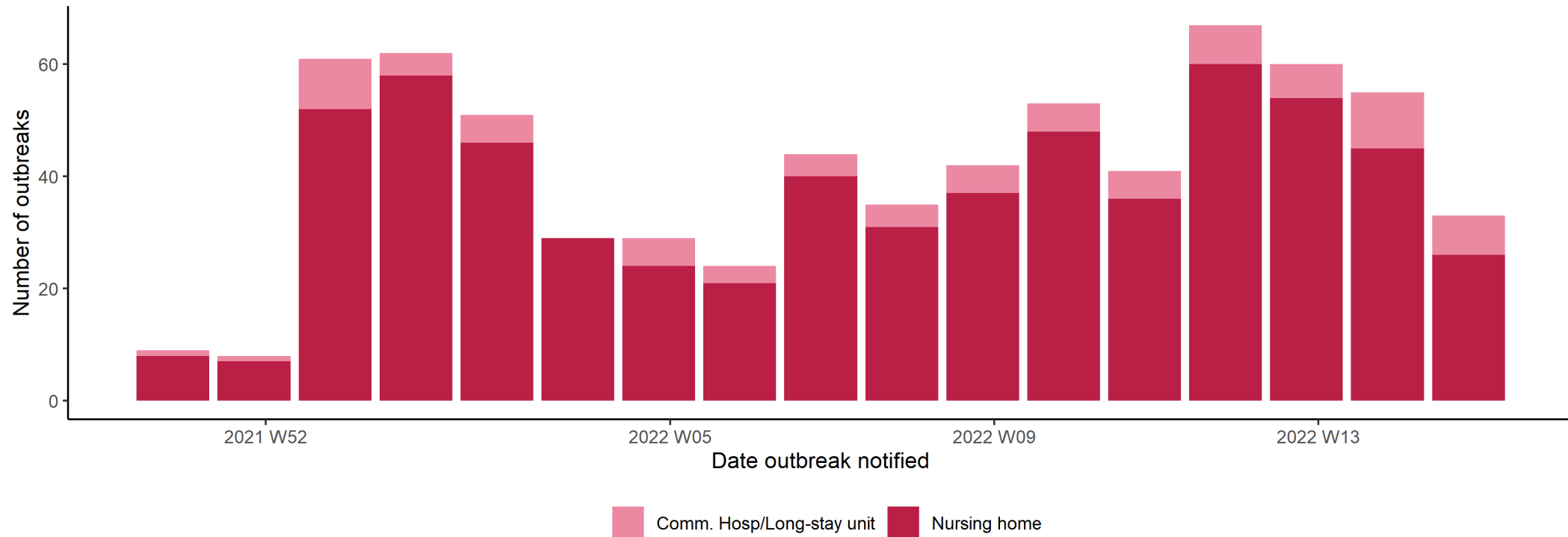
Wave 5:

- 703 outbreaks in wave 5
- 13,310 cases were reported associated with these outbreaks, of which there was disaggregate data available on 9,020 cases (68%)
- 381 of the 9,020 outbreak-linked cases (4.2%) were hospitalised (age range 18-99 years, median 82 years)
- 178 of the 9,020 outbreak-linked cases (2.0%) died (age range 52-101 years, median 87 years). Six additional deaths were reported among probable cases linked to wave 5 outbreaks.

Week 15 2022

- Thirty-three new outbreaks -281 associated cases (range 0-54 cases per outbreak)

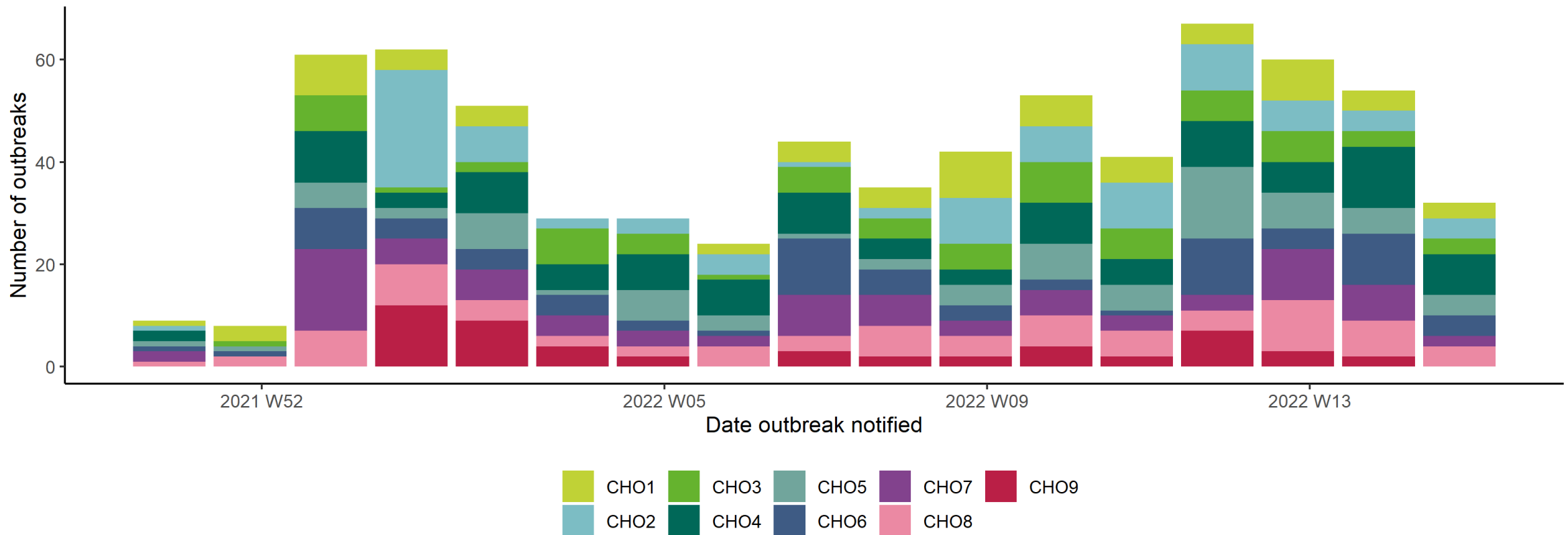
Weekly number of COVID-19 outbreaks in Nursing Homes and Community Hospitals, Waves 5 (week 51 2021 – week 15 2022)



Waves 5:

- 703 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 33 in week 15 2022

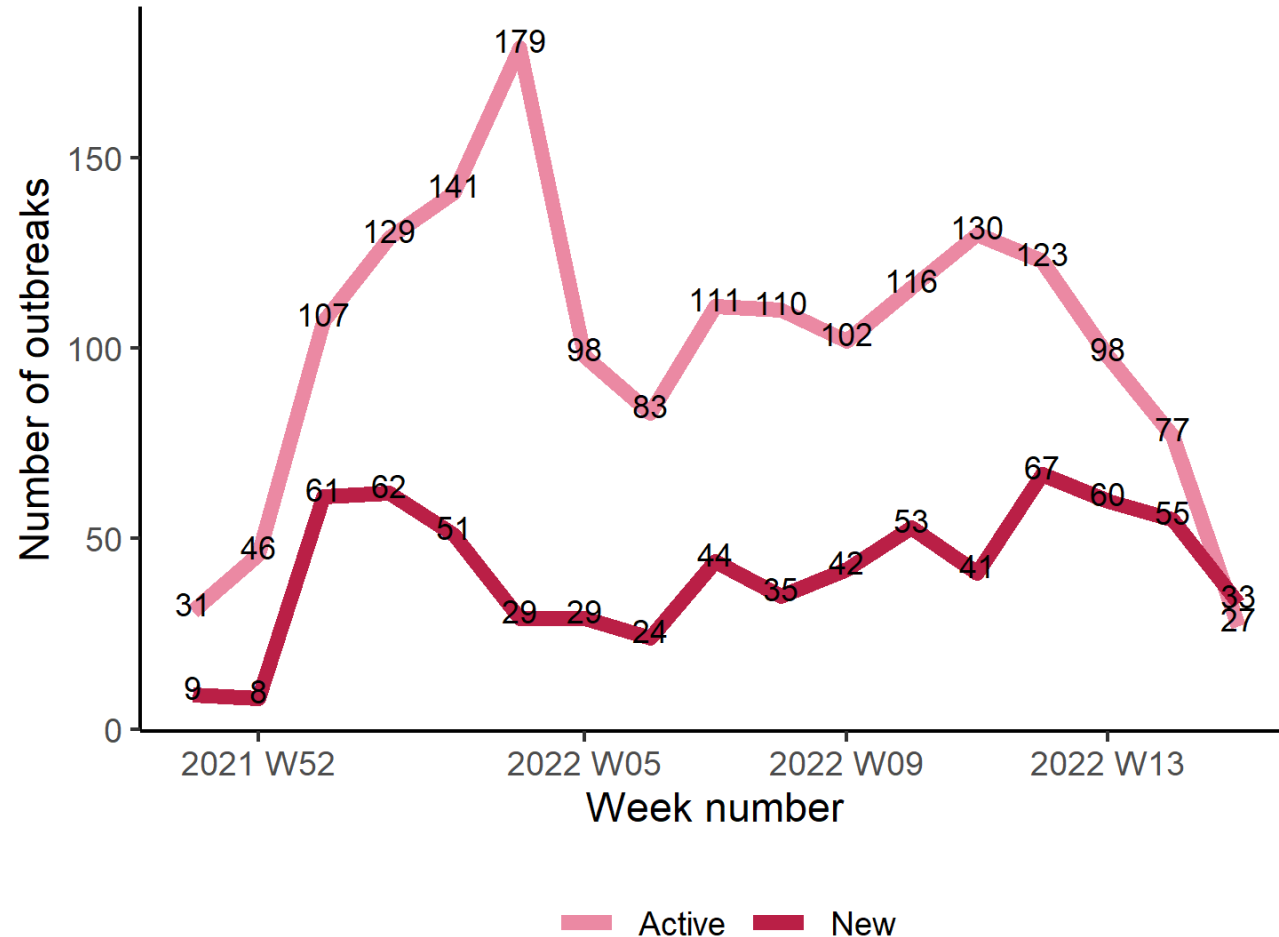
Regional distribution of outbreaks in Nursing Home and Community Hospitals, Waves 5 (week 51 2021 – week 15 2022)



Wave 5:

- The highest number of outbreaks was reported in CHO4 (105 outbreaks) followed by CHO2 (91 outbreaks)
- Eight CHOs were represented in the 33 outbreaks notified in week 15 2022

New and active outbreaks by week in Nursing Home and Community Hospitals, Wave 5 (week 51 2021 to week 15 2022)

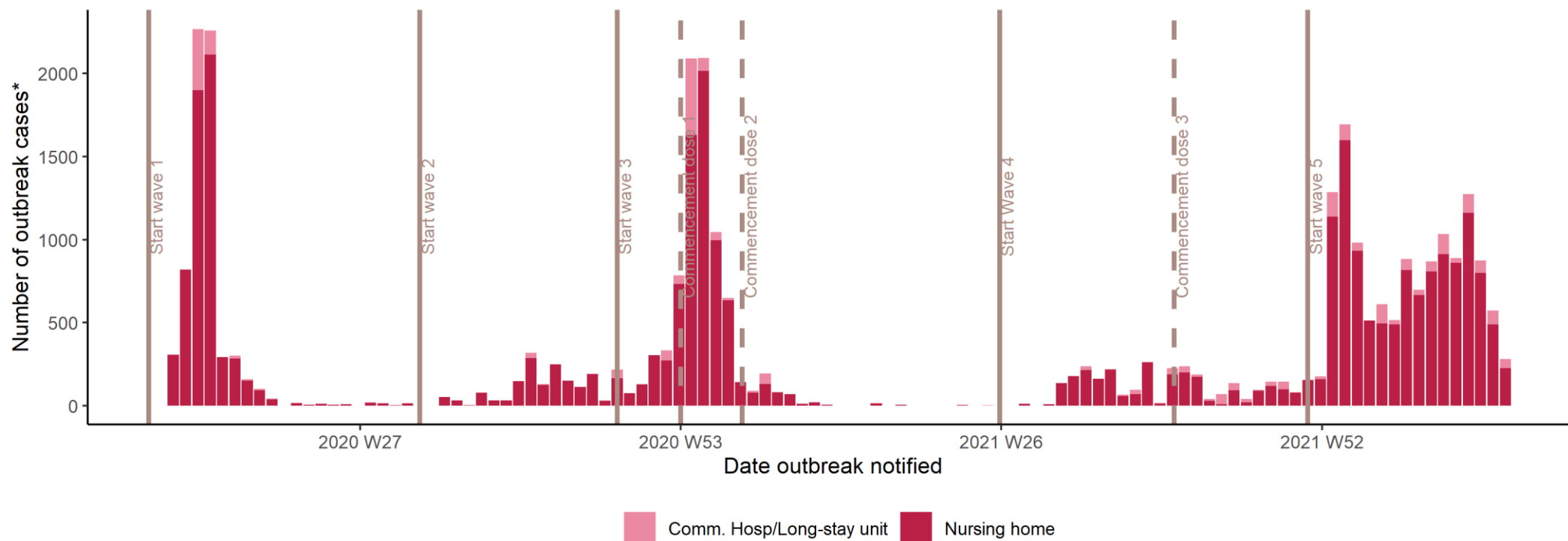


Wave 4 and 5:

The number of active outbreaks (those with a case notified that week) peaked at 179 in week 4 2022. Fewer outbreaks had cases reported in weeks 5-15 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 9,020/13,310 (68%) cases in wave 5

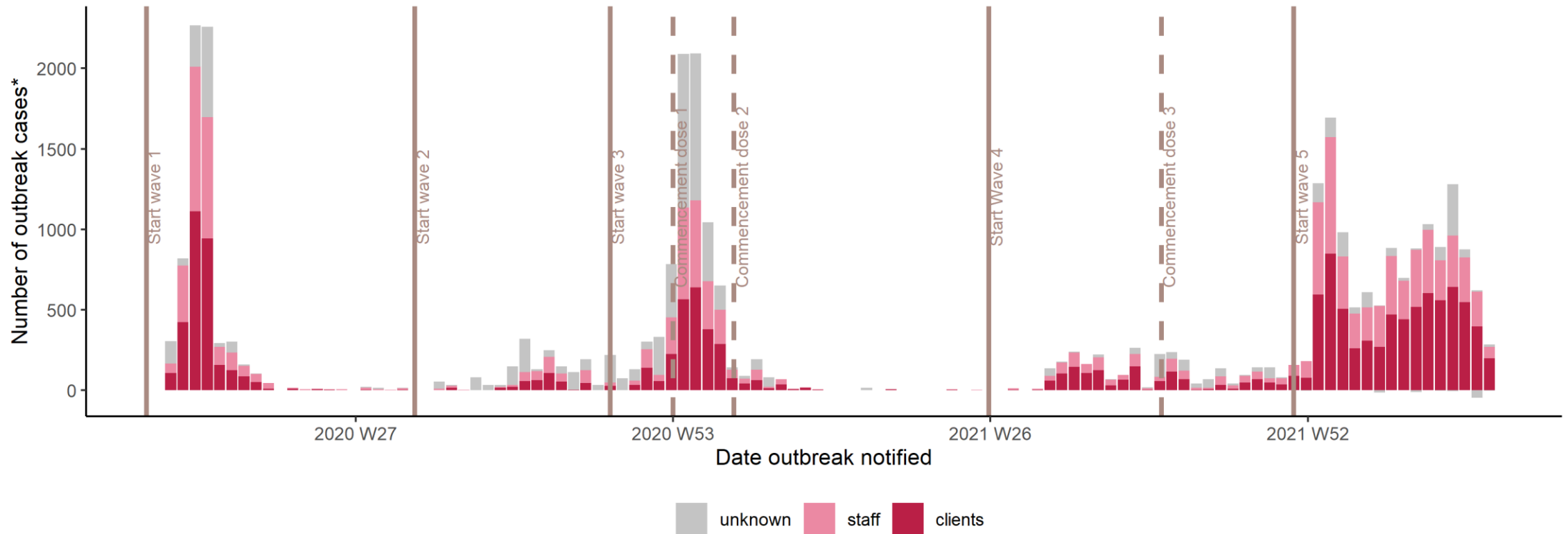
Cases associated with COVID-19 outbreaks in Nursing Homes and Community Hospitals, Waves 1 to 5



For outbreaks reported in week 15 2022, the number of outbreak associated cases was 281. The peak in weekly case numbers in wave 5 was in outbreaks reported in week 2 2022 with 1693 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

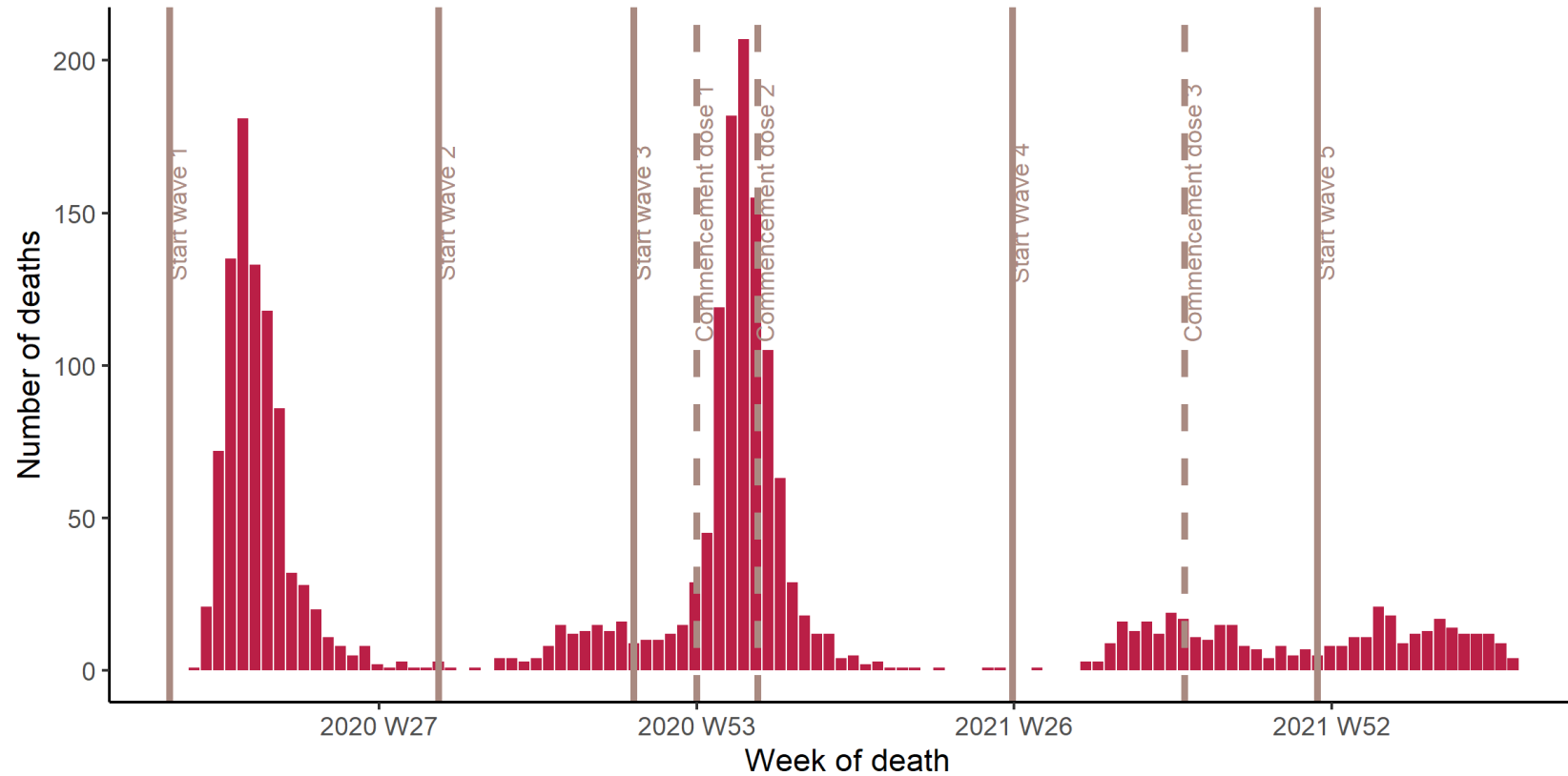
Cases associated with COVID-19 outbreaks in Nursing Homes and Community Hospitals by healthcare worker status, Waves 1 to 5



In week 15, 72 outbreak associated cases (26%) were among staff and 199 (71%) among residents; the HCW status of 10 cases (3%) were 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 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 15 2022)



Age group	Number	Number hospitalised	% hospitalised	Number admitted to ICU	% ICU	Number who died	% died
<45 yrs	2177	26	1.2%	<5	0.0%	<5	0.0%
45-64 yrs	1479	32	2.2%	<5	0.0%	<5	0.3%
65-74 yrs	679	37	5.4%	<5	0.1%	10	1.5%
75-84 yrs	1888	132	7.0%	<5	0.1%	52	2.8%
85+ yrs	2797	154	5.5%	<5	0.1%	112	4.0%
Total	9020	381	4.2%	6	0.1%	178	2.0%

Note: disease severity information is only available for 9,020/13,310 (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

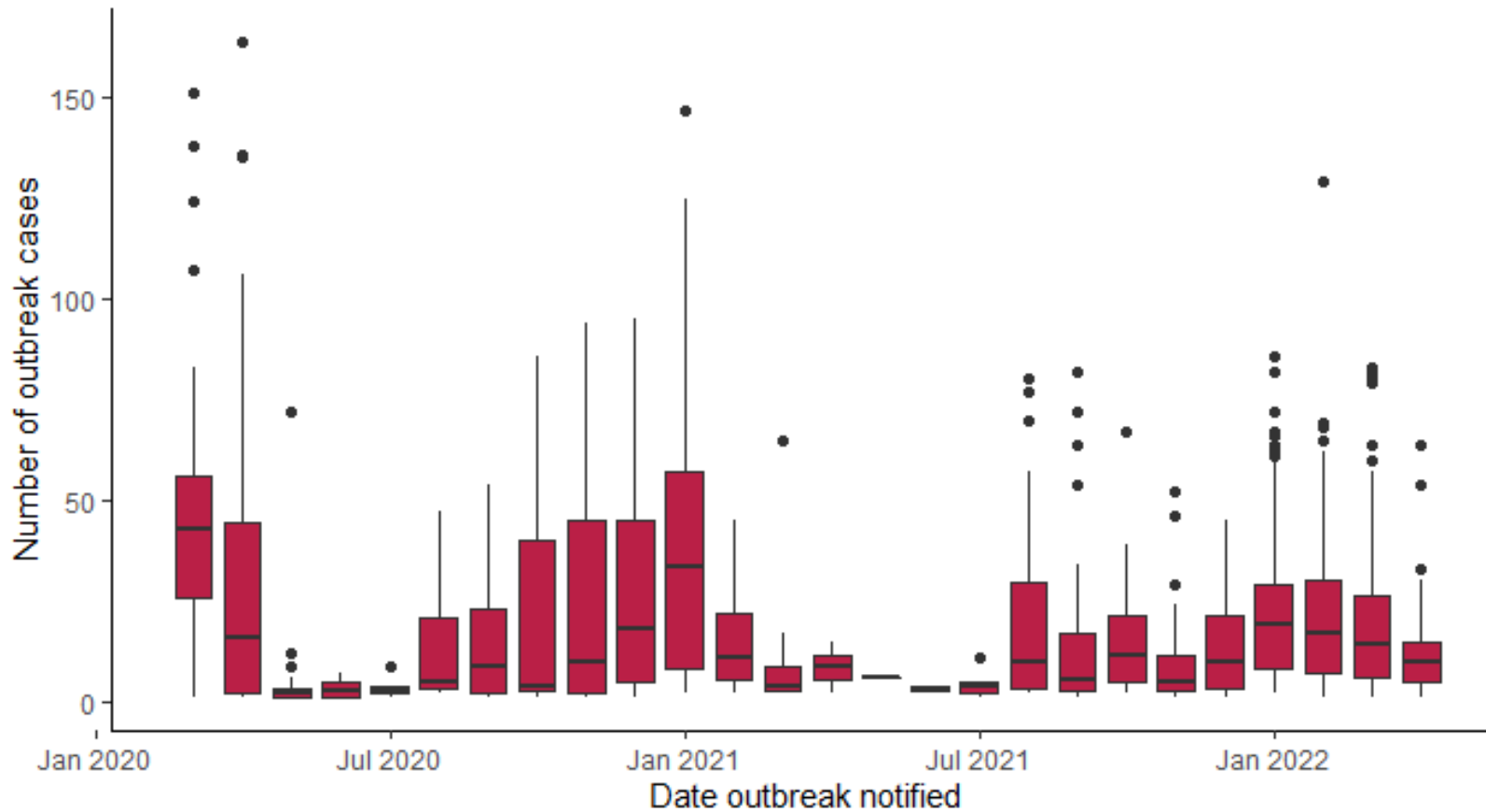


Age group	Wave	Number	Number hospitalised	% hospitalised	Number admitted to ICU	% ICU	Number who died	% died
<65 yrs	Wave 1	2672	88	3.3%	5	0.2%	20	0.7%
	Wave 2	779	15	1.9%	<5	0.0%	<5	0.1%
	Wave 3	4032	101	2.5%	8	0.2%	18	0.4%
	Wave 4	1177	16	1.4%	<5	0.2%	7	0.6%
	Wave 5	3656	58	1.6%	<5	0.0%	<5	0.1%
65+ 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%	1009	23.5%
	Wave 4	1531	174	11.4%	<5	0.1%	199	13.0%
	Wave 5	5364	323	6.0%	5	0.1%	174	3.2%
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%	1027	12.3%
	Wave 4	2708	190	7.0%	<5	0.1%	206	7.6%
	Wave 5	9020	381	4.2%	6	0.1%	178	2.0%

The percentage of cases 65 years or older who died among confirmed cases linked to outbreaks notified in wave 4 was 13.0% and in wave 5 was 3.2%, compared to between 17.1% and 24.2% in waves 1-3

Note: disease severity information is only available 9,020/13,310 (68%) cases in wave 5, and deaths may still accrue among known cases

Distribution of outbreak size* by month of outbreak notification

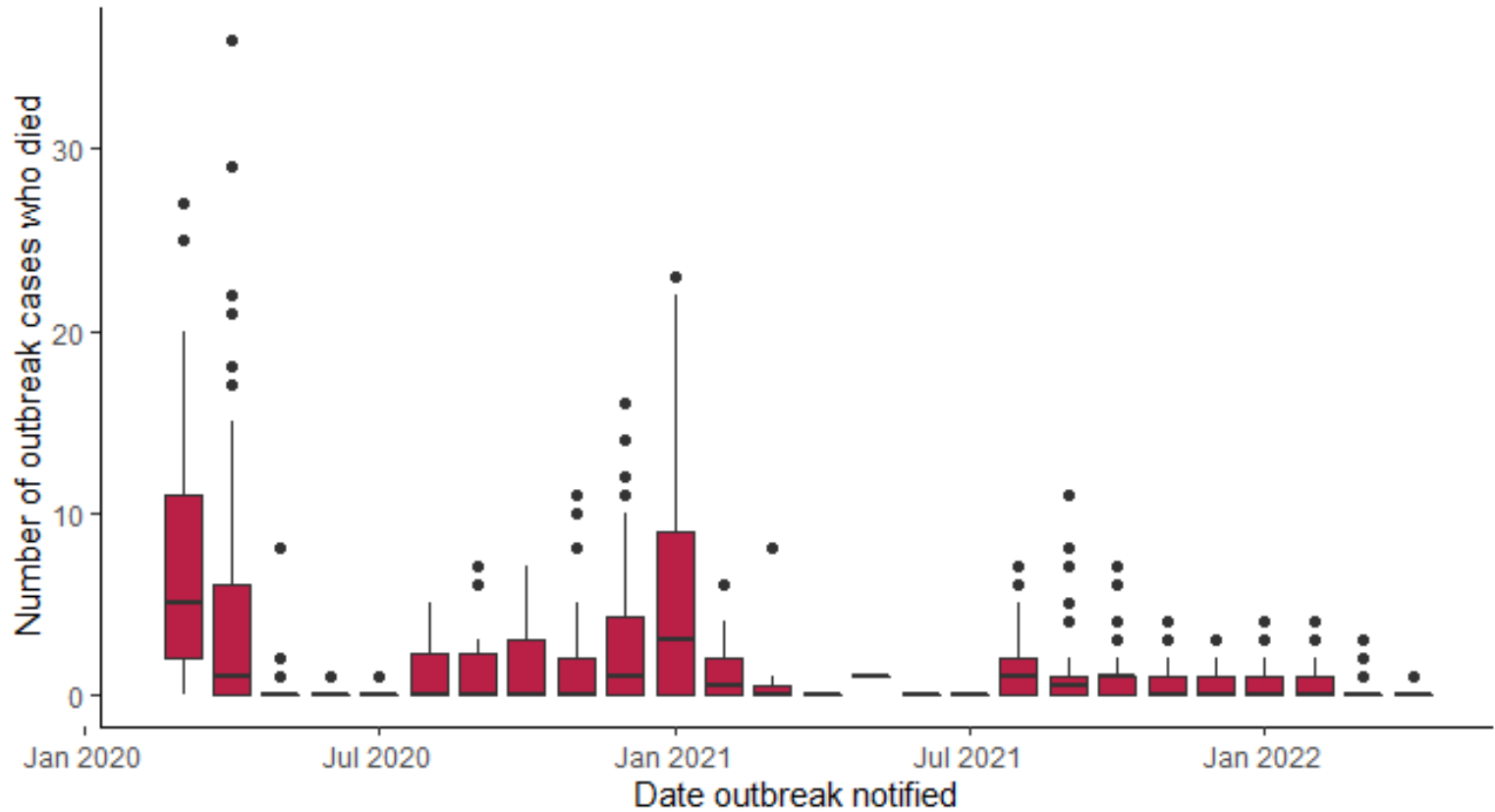


The median outbreak size has remained relatively low since the vaccination programme commenced in January/February 2021

The median outbreak size for outbreaks reported in January 2022 increased to 19 and reduced to 10 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



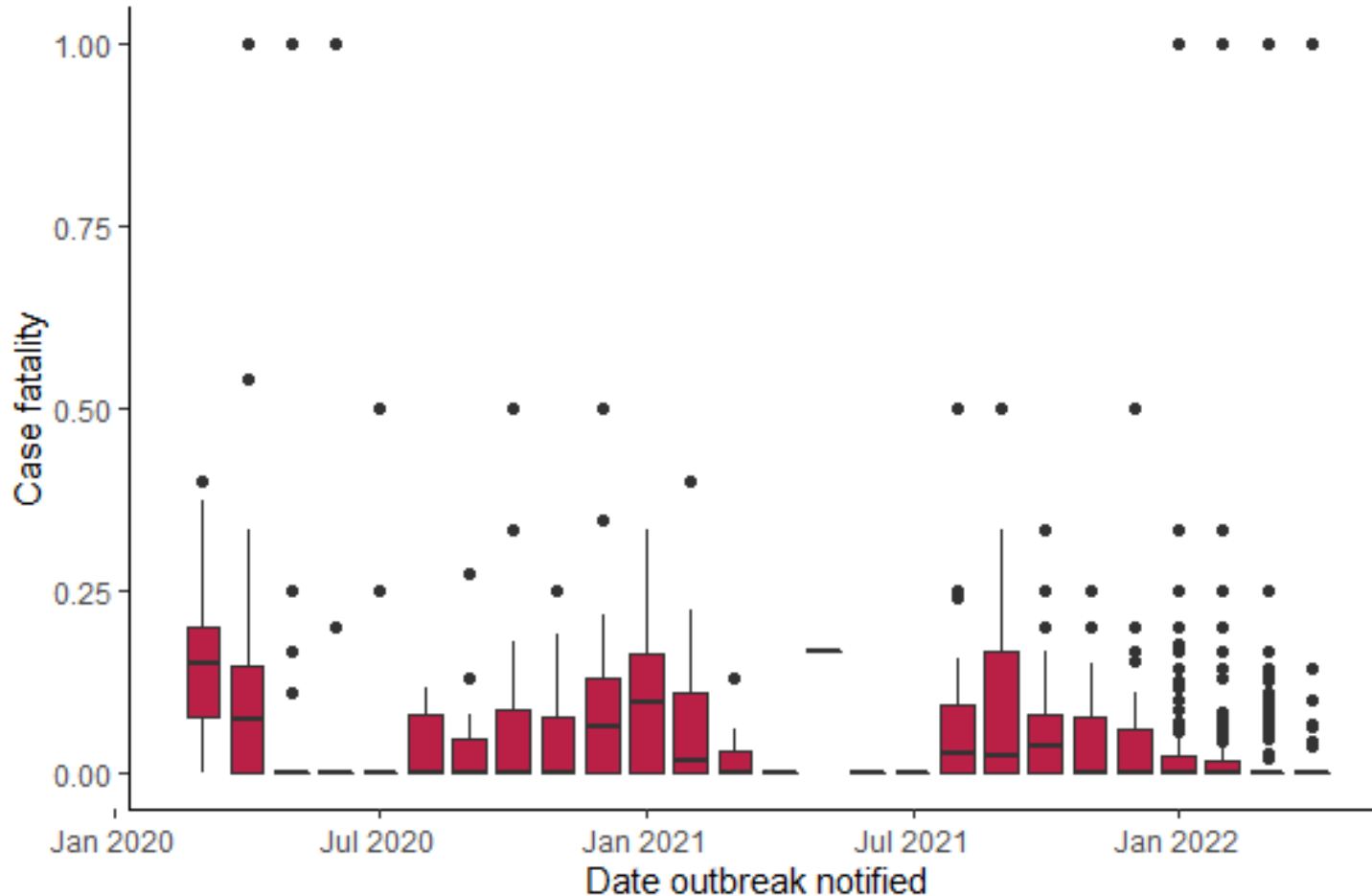
The median number of deaths per outbreak has remained relatively low since the vaccination programme commenced in January/February 2021.

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



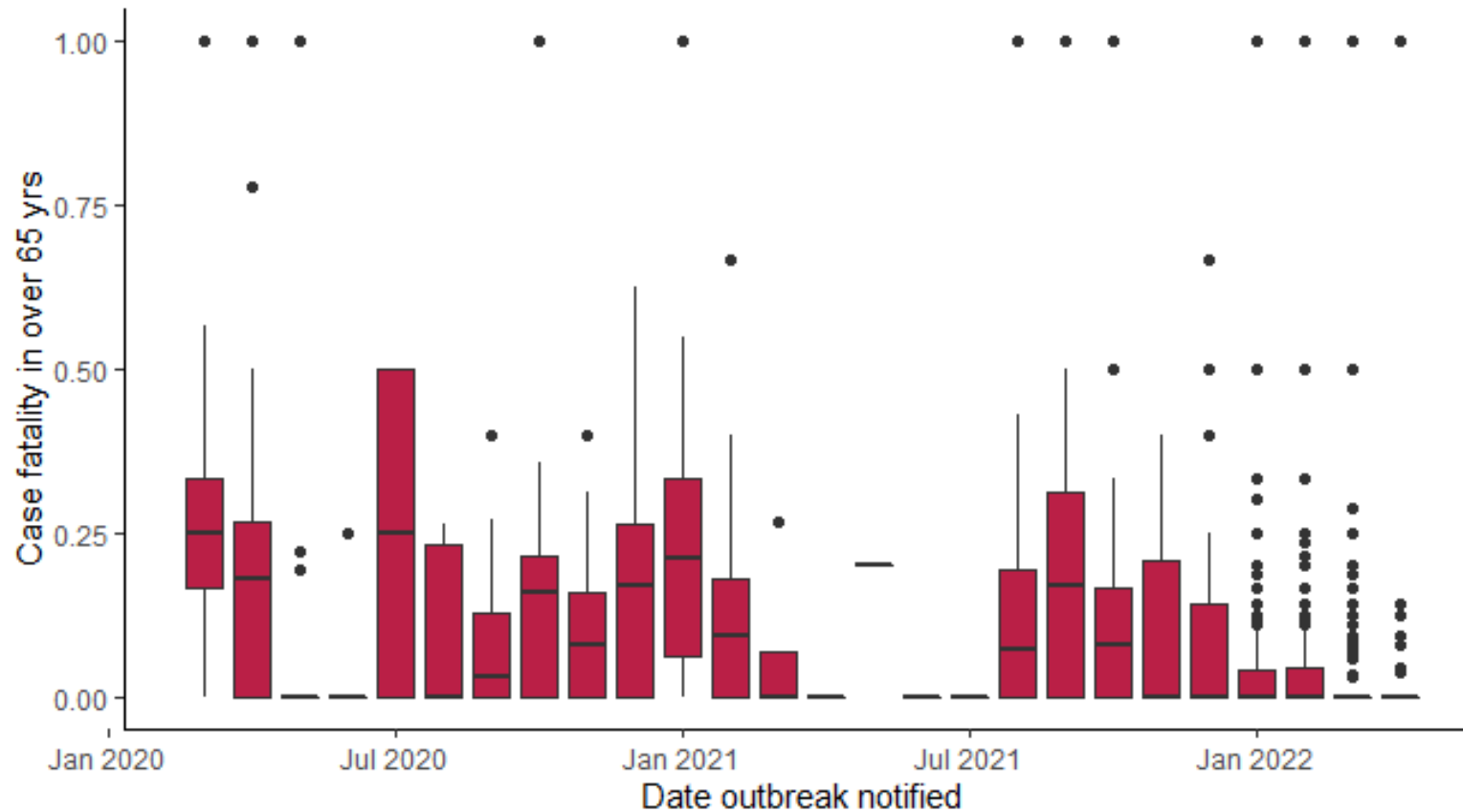
The median outbreak case fatality has remained relatively low since the vaccination programme commenced in January/February 2021.

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 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