



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

Week 7 2022

Health Protection Surveillance Centre, 22nd February 2022

Dates to note:

- Week 7 2022 (February 13th -19th 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 22/02/2022. 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 February 19th 2022 (week 7) and extracted from CIDR at 8 am on February 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

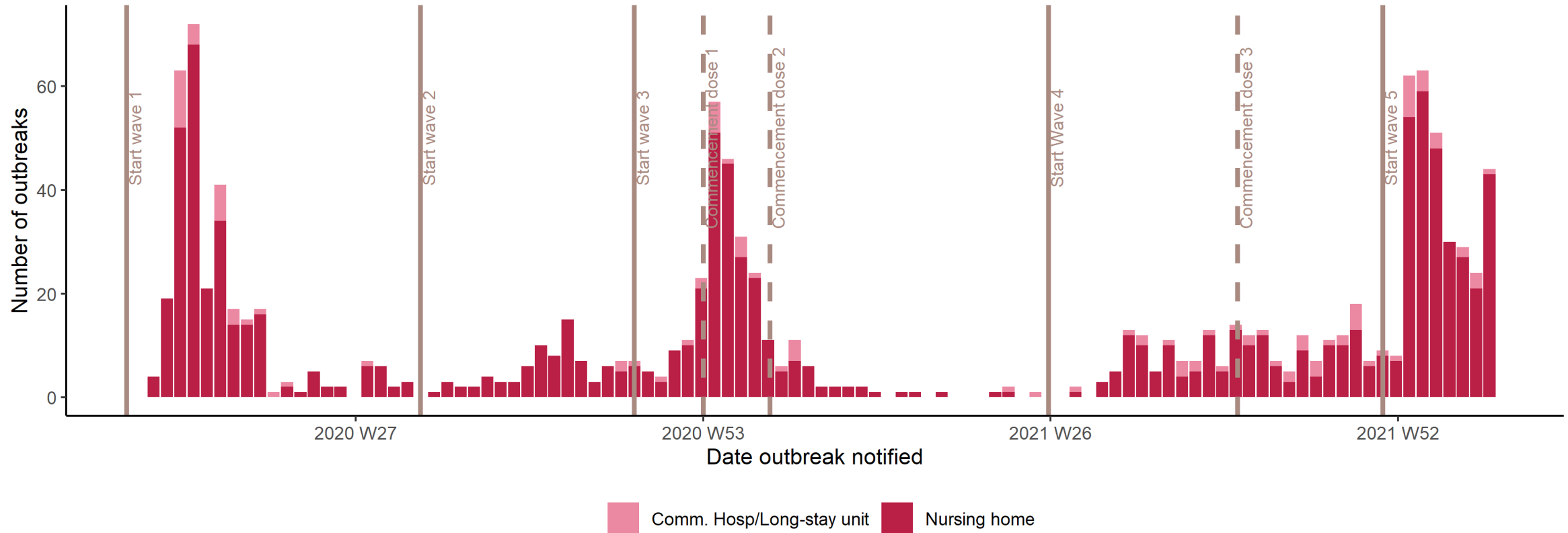


Wave	Outbreak		Linked confirmed cases				
	Number of outbreaks	Number of cases*	Number	Number hospitalised	Number admitted to ICU	Number hospitalised and died	Number who died
Wave 1 (weeks 10-31 2020)	301	6658	6251	476	16	195	884
Wave 2 (weeks 32-47 2020)	80	1571	1555	90	<5	25	134
Wave 3 (week 48 2020 - week 25 2021)	267	8375	8329	577	12	199	1026
Wave 4 (weeks 26-50 2021)	202	2804	2692	188	<5	49	202
Wave 5 (weeks 51 2021 – week 7 2022)	320	5412	3836	149	<5	10	58
Total	1170	24820	22663	1480	32	478	2304

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

- Overall, there have been 1,170 COVID-19 outbreaks in Nursing homes and Community Hospitals
- 1,480 of 22,663 laboratory confirmed outbreak cases have been hospitalised (6.5%)
- 2,304 deaths have been reported among confirmed outbreak cases in these settings (10.2%)

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 7 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 7 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	23	312	240	23	<5	<5	<5
Nursing home	297	5100	3596	126	<5	10	56
Total	320	5412	3836	149	<5	10	58

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

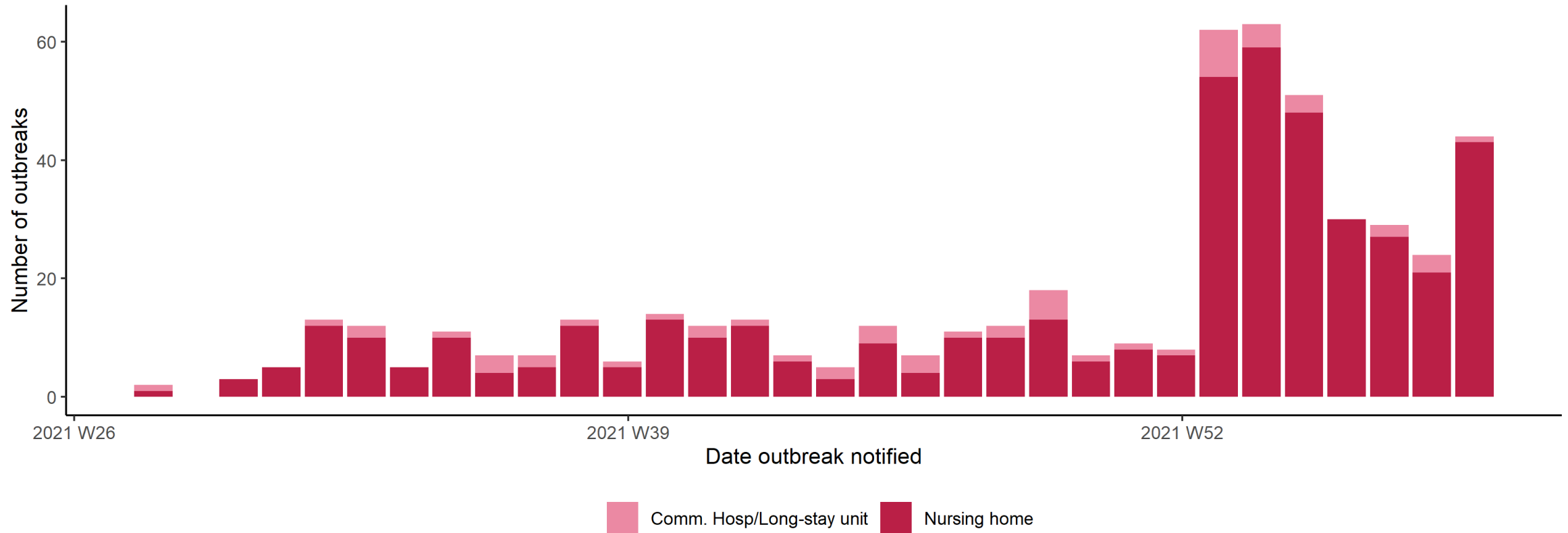
Wave 5:

- 320 outbreaks in wave 5
- 5,412 cases were reported associated with these outbreaks, of which there was disaggregate data available on 3,836 cases (71%)
- 149 of the 3,836 outbreak-linked cases (3.9%) were hospitalised (age range 21-99 years, median 81 years).
- 58 of the 3,836 outbreak-linked cases (1.5%) cases died (age range 64-101 years, median 87 years).

Week 7 2022

- Forty-four new outbreaks -294 associated cases (range 0-74 cases per outbreak)

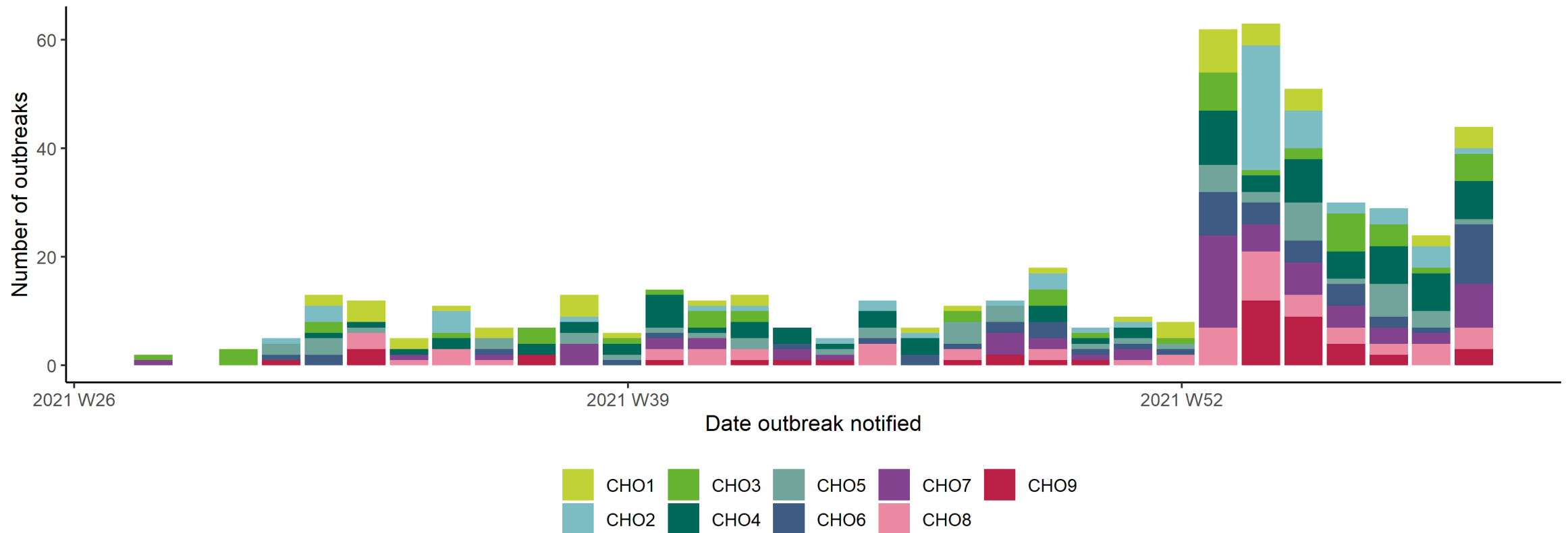
Weekly number of COVID-19 outbreaks in Nursing Homes and Community Hospitals, Waves 4 & 5 (weeks 26 2021 – week 7 2022)



Waves 4 and 5:

- 522 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 increased again to 44 in week 7 2022

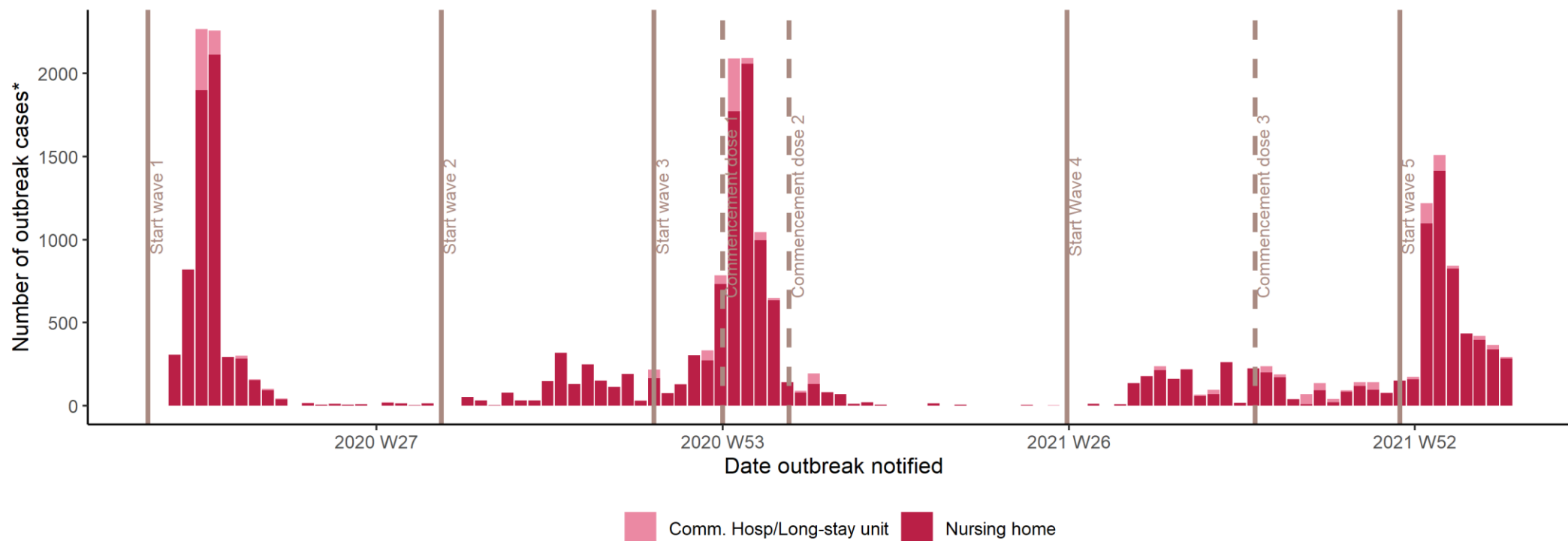
Regional distribution of outbreaks in Nursing Home and Community Hospitals, Waves 4 & 5 (weeks 26 2021 – week 7 2022)



Waves 4 and 5:

- The highest number of outbreaks was reported in CHO4 (84 outbreaks) followed by CHO7 (68 outbreaks)
- Nine CHOs were represented in the 44 outbreaks notified in week 7 2022

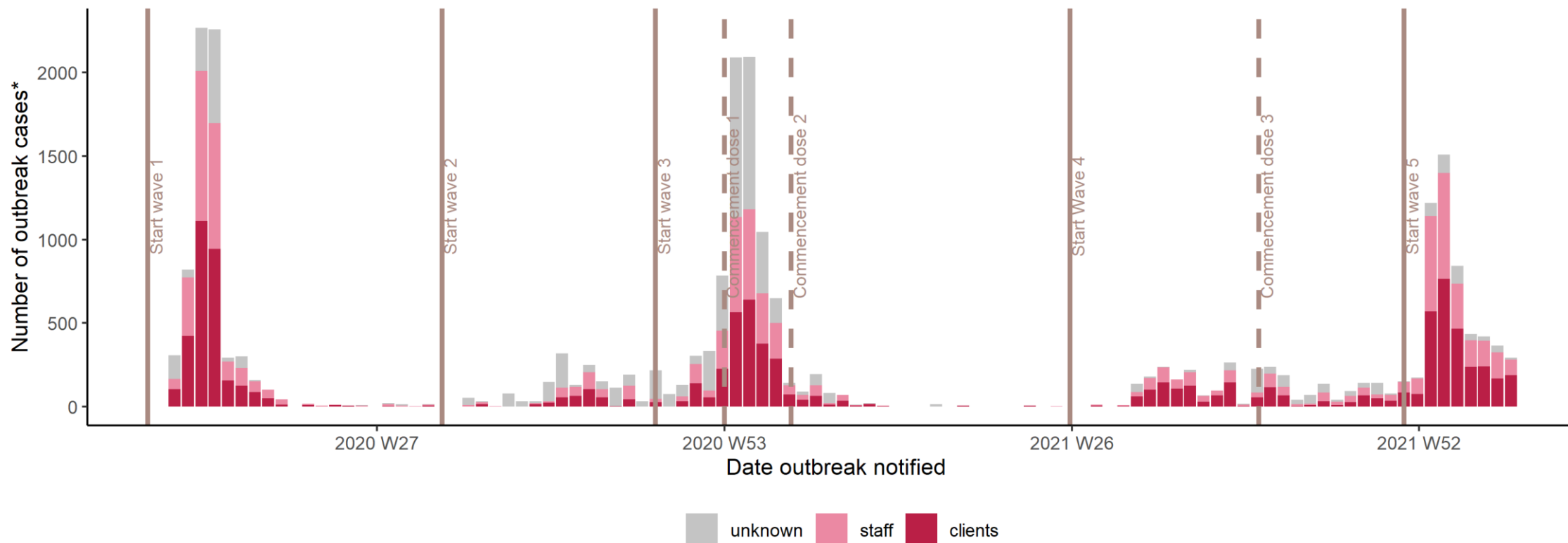
Cases associated with COVID-19 outbreaks in Nursing Homes and Community Hospitals, Waves 1 to 5



For outbreaks reported in week 7 2022, the number of outbreak associated cases was 294. The peak in weekly case numbers in wave 5 was in outbreaks reported in week 2 2022 with 1507 cases. This is almost 6 times the peak weekly number of cases in wave 4 (n=265), and 72% 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 7, 92 outbreak associated cases were among staff and 188 among residents, with 14 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.

Outcomes among cases linked to COVID-19 outbreaks in Nursing Homes and Community Hospitals by age group, Wave 5 (weeks 51 2021 to week 7 2022)

Age group	Number	Number hospitalised	% hospitalised	Number admitted to ICU	% ICU	Number who died	% died
<45 yrs	1101	19	1.7%	<5	0.0%	<5	0.0%
45-64 yrs	619	20	3.2%	<5	0.0%	<5	0.2%
65-74 yrs	253	12	4.7%	<5	0.0%	6	2.4%
75-84 yrs	772	43	5.6%	<5	0.0%	19	2.5%
85+ yrs	1091	55	5.0%	<5	0.0%	32	2.9%
Total	3836	149	3.9%	<5	0.0%	58	1.5%

Note: disease severity information is only available for 3836/5412 (71%) 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
<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	4033	101	2.5%	8	0.2%	18	0.4%
	Wave 4	1166	16	1.4%	<5	0.2%	7	0.6%
	Wave 5	1720	39	2.3%	<5	0.0%	<5	0.1%
65+ yrs	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%	195	12.8%
	Wave 5	2116	110	5.2%	<5	0.0%	57	2.7%
All ages	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	8329	577	6.9%	12	0.1%	1026	12.3%
	Wave 4	2692	188	7.0%	<5	0.1%	202	7.5%
	Wave 5	3836	149	3.9%	<5	0.0%	58	1.5%

The percentage of cases 65 years or older who died among cases linked to outbreaks notified in wave 4 was 12.8% and in wave 5 was 2.7%, compared to between 17.0% and 24.2% in waves 1-3

Note: disease severity information is only available for 3836/5412 (71%) cases in wave 5, and deaths may still accrue among known cases

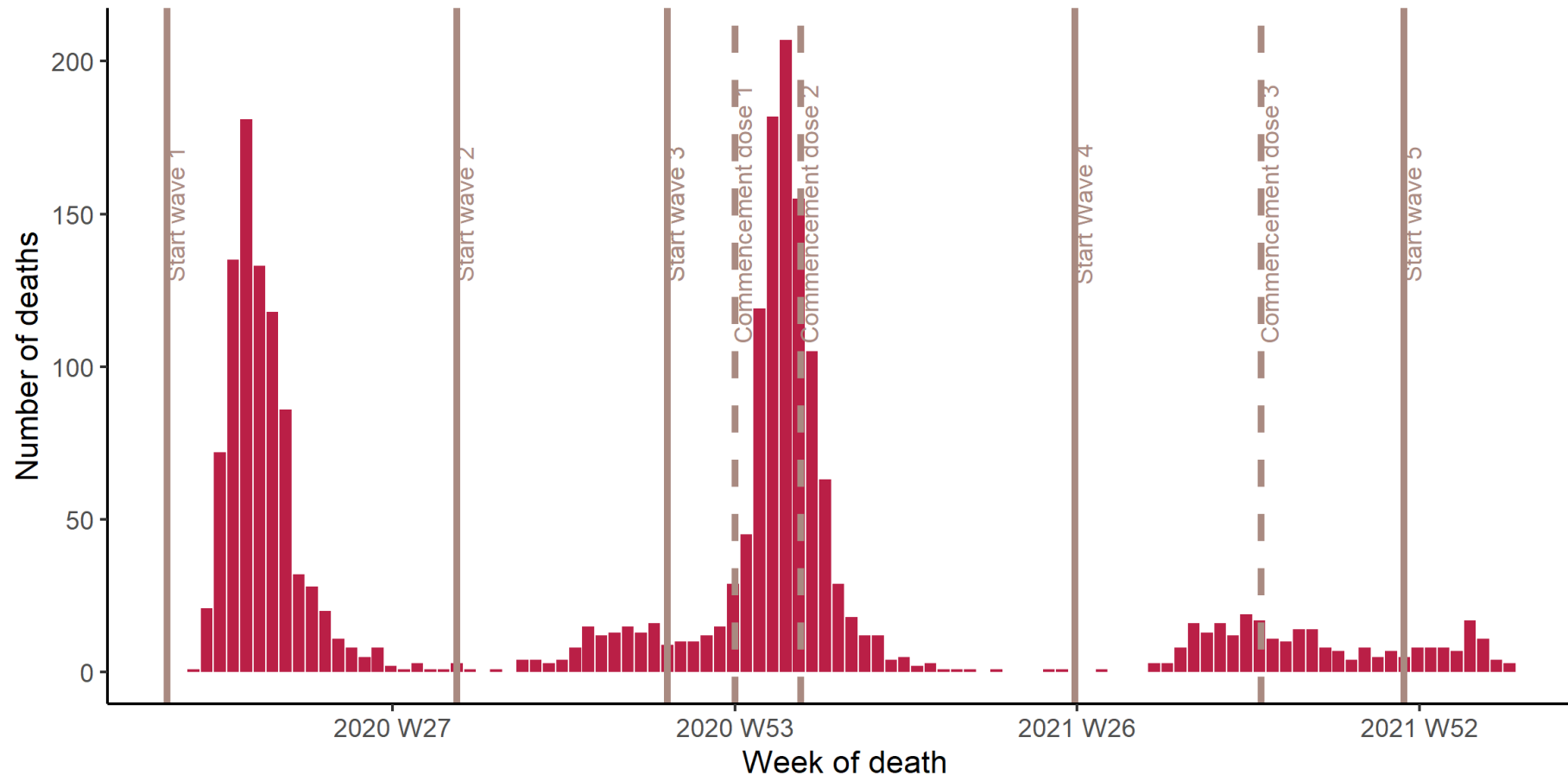
Deaths among confirmed cases linked to COVID-19 outbreaks in Nursing Homes and Community Hospitals by week of death, waves 1 -5



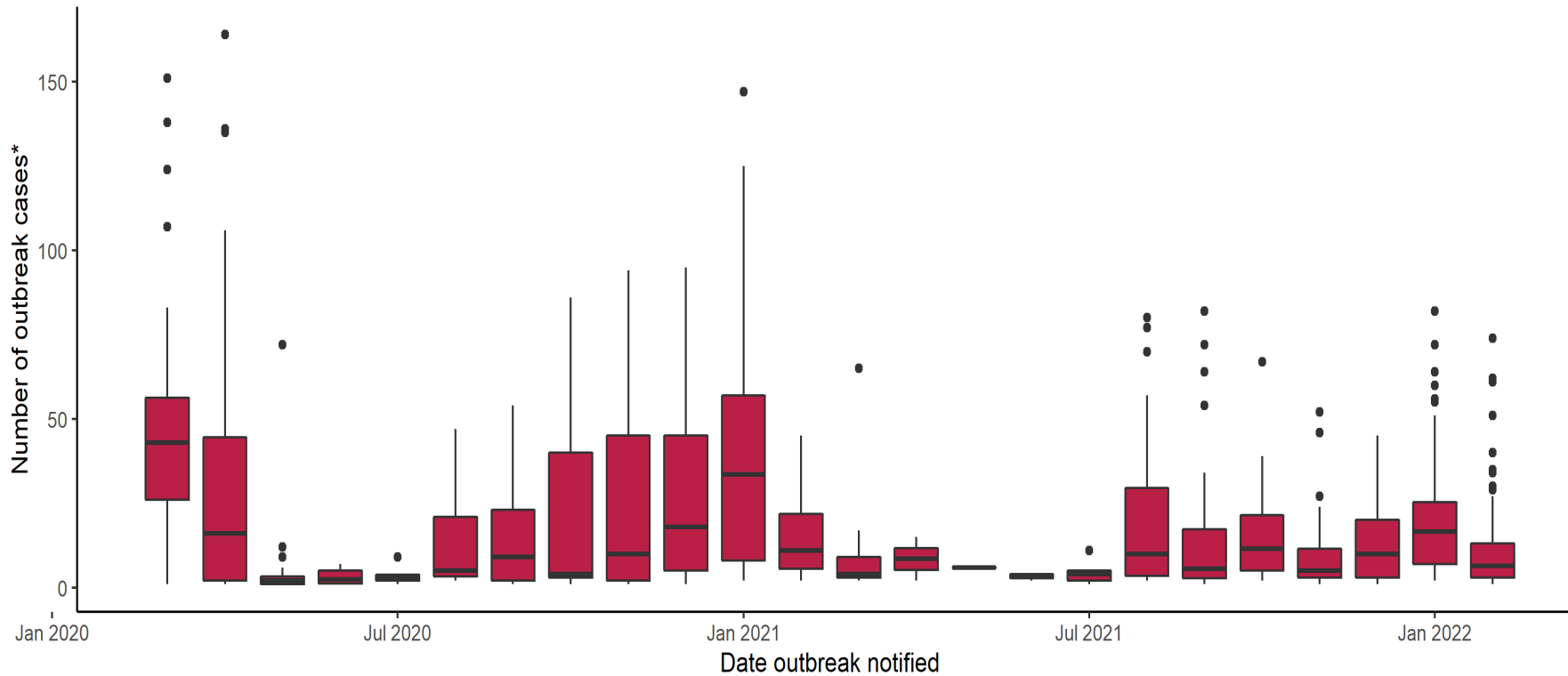
- In wave 4, the number of deaths per week (by date of death) peaked in week 39 with 19 deaths, followed by a reduction from week 44
- In wave 5, the highest number of weekly deaths (by date of death) is 17 in week 4 2022

Note: only 71% 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 also likely an underestimate, as 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 16.5 and reduced to 6.5 in February (Note: data for February 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