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Report of the profile of COVID-19 cases in healthcare workers in Ireland : report prepared by HPSC on 22/06/2020

Item Type	report
Citation	Health Protection Surveillance Centre, 'Report of the profile of COVID-19 cases in healthcare workers in Ireland : report prepared by HPSC on 22/06/2020', [report], Health Protection Surveillance Centre, 2020-06-25
Publisher	Health Protection Surveillance Centre
Rights	Y
Download date	2026-04-20 22:30:03
Link to Item	https://hdl.handle.net/20.500.14765/93343

Report of the profile of COVID-19 cases in healthcare workers in Ireland

Report prepared by HPSC on 22/06/2020

Note: Data are provisional

Summary

This report includes data as of 22th June 2020 at 9:15 am for events created on CIDR up to midnight Saturday 20th June 2020.

Characteristic of HCW COVID-19 cases	Number	%
Total number of COVID-19 cases	25812	-
Total number of HCW cases	8219	31.8
Number of new cases reported between 14 - 20 June	28	-
Median age (IQR)	41 (31-50) years	-
Total number hospitalised	305	3.7
The median age (IQR) of hospital inpatient	46 (34-53) years	-
Total number admitted to ICU	46	15.1*
The median age (IQR) of HCW in ICU	51 (44-60) years	-
Total number of deaths	7**	0.09
The median age (range) for deaths	51 (30-68) years	-

*This relates to hospitalised cases and it is 0.6% of all HCW cases.

**Six confirmed and 1 probable COVID-19 case.

There was a total of 25812 COVID-19 cases reported as of 20/06/2020 12.00 midnight, 8219 (31.8%) were healthcare workers (HCWs).

The median age of COVID-19 case HCWs is 41 years (range 17-78 years). The proportion of females is disproportionately high (74.1%) among HCW COVID-19 cases compared to non-HCW COVID-19 cases (49.3%), most likely due to some HCW specialities e.g. nursing being female dominated. The majority (58.5%) of notified HCWs were from the HSE East. CIDR (Computerised Infectious Diseases Reporting) is a dynamic information system and data are continuously validated and updated.

This report includes all HCW COVID-19 cases (n=8219) reported to HPSC, including confirmed, probable and possible cases. There are 58 (0.7%) probable or possible HCW COVID-19 cases included in the report.

Table 1. Number and proportion of HCW COVID-19 cases by epidemiological week

Epi Week (Calendar Date)	Number of HCWs	Total number of cases*	Proportion of HCWs (%)
10 (1 – 7, March)	3	16	18.8
11 (8 – 14, March)	23	128	18.0
12 (15 – 21, March)	204	684	29.8
13 (22 – 28, March)	436	1633	26.7
14 (29 March - 4 April)	934	2435	38.4
15 (5 – 11, April)	1620	4584	35.3
16 (12 – 18, April)	1607	5667	28.4
17 (19 - 25, April)	1235	3897	31.7
18 (26 April – 2 May)	809	2590	31.2
19 (3 –9 May)	492	1502	32.8
20 (10-16 May)	484	1193	40.6
21 (17-23 May)	146	588	24.8
22 (24-30 May)	107	426	25.1
23 (31 May - 6 June)	70	248	28.2
24 (7 – 13 June)	21	117	17.9
25 (14-20 June)	28	104	26.9
Total	8219	25812	31.8

*including HCWs

Figure 1. Proportion of HCW and non-HCW COVID-19 cases by week in which case was notified (n= 25812)

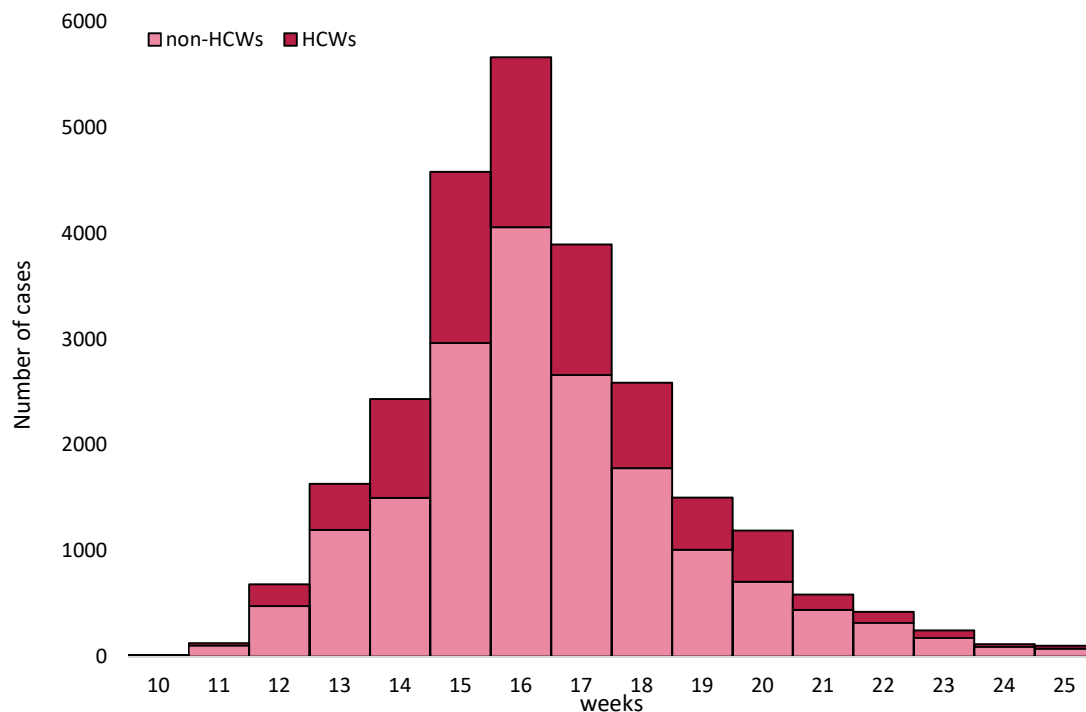
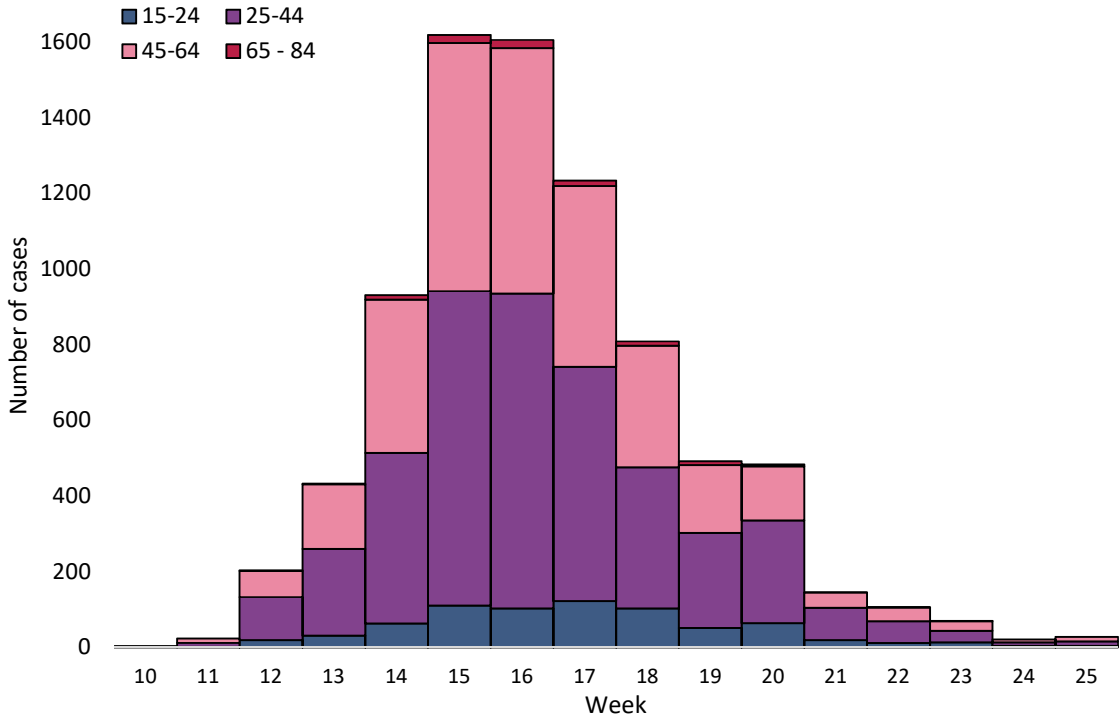
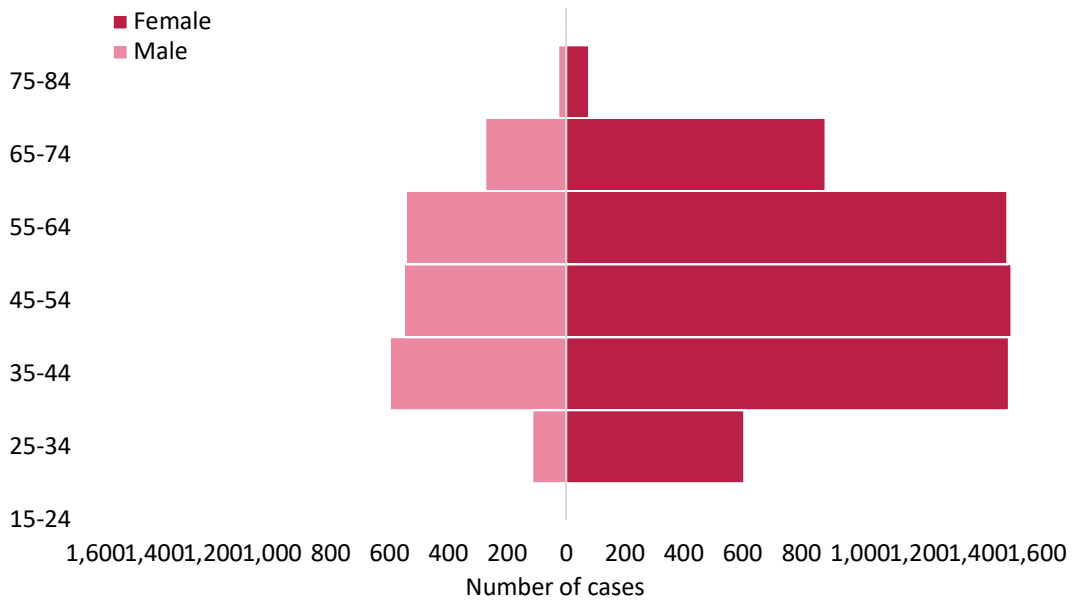


Figure 2. Distribution of HCW COVID-19 cases by week in which case was notified * and age group (n=8210)



* Age was not available for 9 cases.

Figure 3. Distribution of HCW COVID-19 cases by age and sex (n=8193) *



* Age and sex were not available for 26 cases.

Table 2. Number and proportion of HCW COVID-19 cases by HSE area

HSE area	Number of HCWs cases	Proportion of all cases	Number of new cases since last week
HSE E	4810	58.5%	22
HSE M	439	5.3%	-
HSE MW	362	4.4%	-
HSE NE	1128	13.7%	<5
HSE NW	304	3.7%	-
HSE SE	334	4.1%	<5
HSE S	423	5.1%	-
HSE W	419	5.2%	-
Total	8219	100%	28

Table 3. Number and proportion of HCW COVID-19 cases by CHO area

CHO area	Number of HCWs cases	Proportion of all cases	Number of new cases since last week
CHO1	813	9.9%	<5
CHO2	419	5.1%	-
CHO3	362	4.4%	-
CHO4	423	5.1%	-
CHO5	334	4.1%	<5
CHO6	894	10.9%	<5
CHO7	1762	21.5%	11
CHO8	1058	12.9%	<5
CHO9	2154	26.1%	7
Total	8219	100%	28

Table 4. Number and proportion of HCW COVID-19 cases by role

HCW Role	Number of HCWs cases	Proportion of all cases	Number of new cases since last week
Nurse	2690	32.7%	5
Healthcare assistant	2134	26.0%	7
Doctor	502	6.1%	-
Porter	90	1.1%	-
Other HCW*	1948	23.0%	9
Unknown	855	10.5%	7
Total	8219	100%	28

*Please refer to the [Appendix](#) for the list of Other allied HCWs by role.

Table 5. Number and proportion of HCW COVID-19 cases linked to an outbreak by outbreak location

Outbreak location	Number of HCWs cases	Proportion of all cases	Number of new cases since last week
Nursing home	1851	22.6%	7
Hospital	738	8.9%	<5
Residential institution	377	4.6%	<5
Private house	141	1.7%	-
Comm. Hosp/Long-stay unit	216	2.6%	-
Community outbreak	14	0.2%	-
Extended family	19	0.2%	-
Public house	1	0.1%	-
Travel related	28	0.3%	-
Workplace	32	0.4%	-
Other	14	0.2%	-
Not linked to an outbreak	4788	58.2%	14
Total	8219	100%	28

Table 6. Number and proportion of HCW COVID-19 cases with underlying medical conditions

Underlying clinical conditions	Number	Percentage
Yes	2858	34.8%
No	4577	55.7%
Unknown	784	9.5%
Total	8219	100%

Table 7. Number of confirmed COVID-19 cases by WHO transmission classification

Transmission classification*	Number	Percentage
Community transmission - including possible community transmission	1383	16.8%
Local transmission	6693	81.4%
Travel related	143	1.8%
Total	8219	100%

*WHO definition of transmission classification is specified below:

- Community transmission is evidenced by the inability to relate confirmed cases through chains of transmission for a large number of cases, or by increasing positive tests through routine screening of sentinel samples.
- Local transmission indicates locations where the source of infection is within the reporting location.
- Imported cases only indicates locations where all cases have been acquired outside the location of reporting.

'Most likely source of transmission' is a composite variable created by combining several data fields on CIDR. The rate of HCWs with 'Under investigation' transmission source category (n=1182 14.3%) is expected to decrease due to continuous improvement of the transmission source variable algorithm and the completeness of surveillance data.

Table 8. Most likely source of transmission of COVID-19 in HCWs

Likely source of transmission	Number	Percentage
Healthcare setting acquired: staff*	5775	70.4%
Close contact with a known confirmed case	909	11.0%
Travel related	143	1.7%
Community transmission	201	2.5%
Healthcare setting acquired: patient	9	0.1%
Under investigation	1182	14.3%
Total	8219	100%

*Includes HCWs with Most likely source of transmission notified as Healthcare setting acquired: staff AND HCWs with Most likely source of transmission field not completed on CIDR who had close contact with a COVID-19 case in Healthcare or Workplace setting AND HCWs with Most likely source of transmission field not completed on CIDR who are linked to an outbreak in a Comm. Hosp/Long-stay unit / Hospital / Nursing home.