

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

Report prepared by HPSC on 13/07/2020

**Note: Data are provisional**

## Summary

This report includes data as of 13<sup>th</sup> July 2020 at 9:15 am for events created on CIDR up to midnight Saturday 11<sup>th</sup> July 2020.

Characteristic of HCW COVID-19 cases	Number	%
Total number of COVID-19 cases	26076	-
Total number of HCW cases	8347	32.0
Number of new cases reported between 5 - 11 July	43	-
Median age (IQR)	41 (31-50) years	-
Total number hospitalised	319	3.8
The median age (IQR) of hospital inpatient	46 (34-53) years	
Total number admitted to ICU	49	15.4*
The median age (IQR) of HCW in ICU	50 (43-60) years	-
Total number of deaths	7**	0.08
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 26076 COVID-19 cases reported as of 11/07/2020 12.00 midnight, 8347 (32.0%) were healthcare workers (HCWs).

The median age of COVID-19 case HCWs is 41 years (range 17-81 years). The proportion of females is disproportionately high (74.0%) 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 (58.4%) 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.

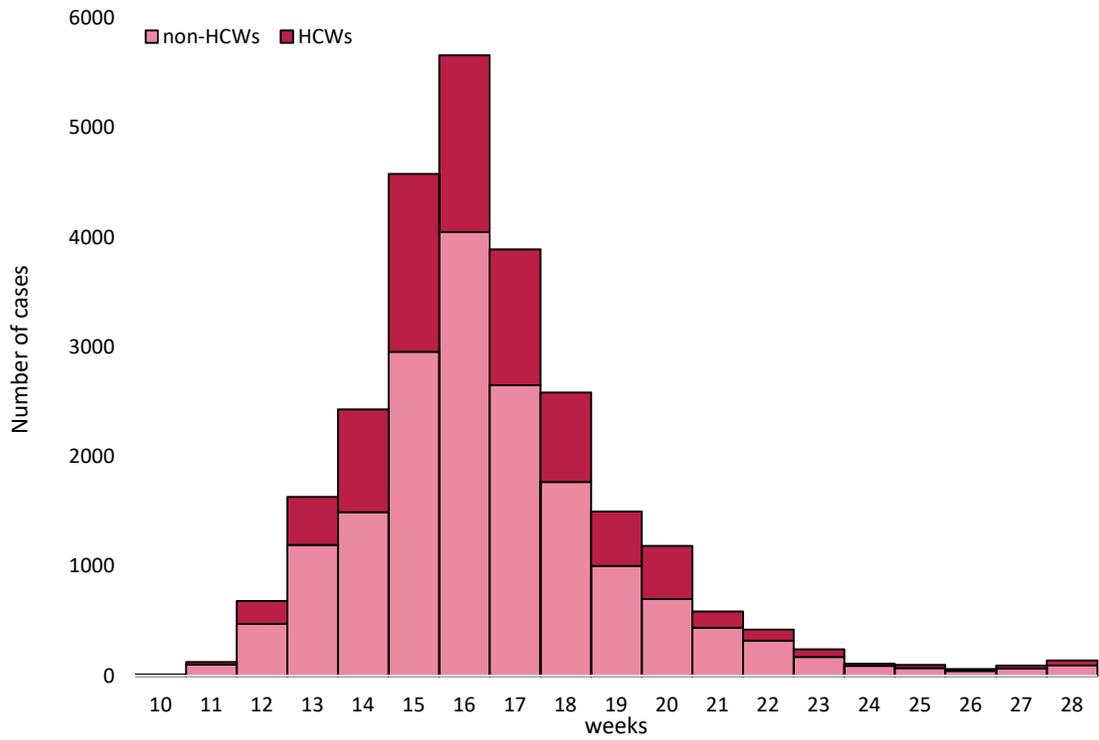
This report includes all HCW COVID-19 cases (n=8347) reported to HPSC, including confirmed, probable and possible cases. There are 63 (0.8%) probable or possible HCW COVID-19 cases included in the report.

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

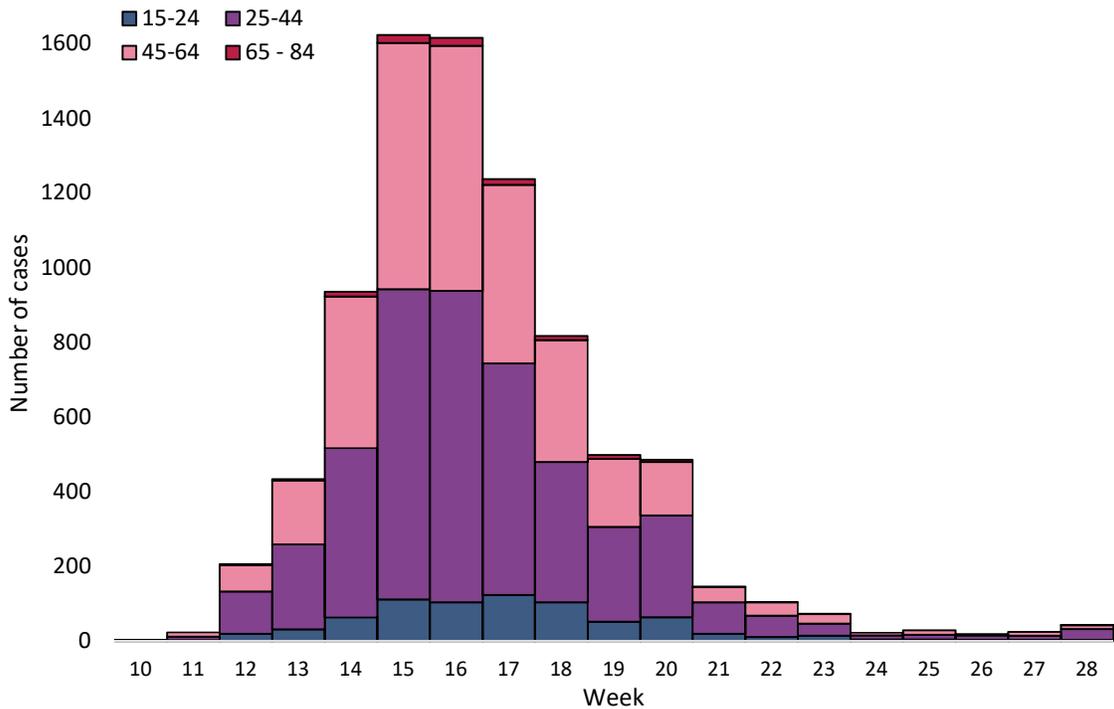
Epi Week (Calendar Date)	Number of HCWs	Total number of cases*	Proportion of HCWs (%)
10 (1 – 7, March)	3	16	18.8
11 (8 – 14, March)	23	128	18.0
12 (15 – 21, March)	206	683	30.2
13 (22 – 28, March)	436	1633	26.7
14 (29 March - 4 April)	939	2434	38.6
15 (5 – 11, April)	1624	4581	35.5
16 (12 – 18, April)	1617	5665	28.5
17 (19 - 25, April)	1238	3893	31.8
18 (26 April – 2 May)	817	2586	31.6
19 (3 –9 May)	498	1500	33.2
20 (10-16 May)	485	1187	40.9
21 (17-23 May)	146	587	24.9
22 (24-30 May)	105	425	24.7
23 (31 May - 6 June)	73	245	29.8
24 (7 – 13 June)	22	114	19.3
25 (14-20 June)	29	102	28.4
26 (21-27 June)	18	63	28.6
27 (28 June- 4 July)	25	94	26.6
28 (5-11 July)	43	140	30.7
<b>Total</b>	<b>8347</b>	<b>26076</b>	<b>32.0</b>

\*including HCWs; confirmed, probable and possible cases.

**Figure 1.** Proportion of HCW and non-HCW COVID-19 cases by week in which case was notified (n= 26076)

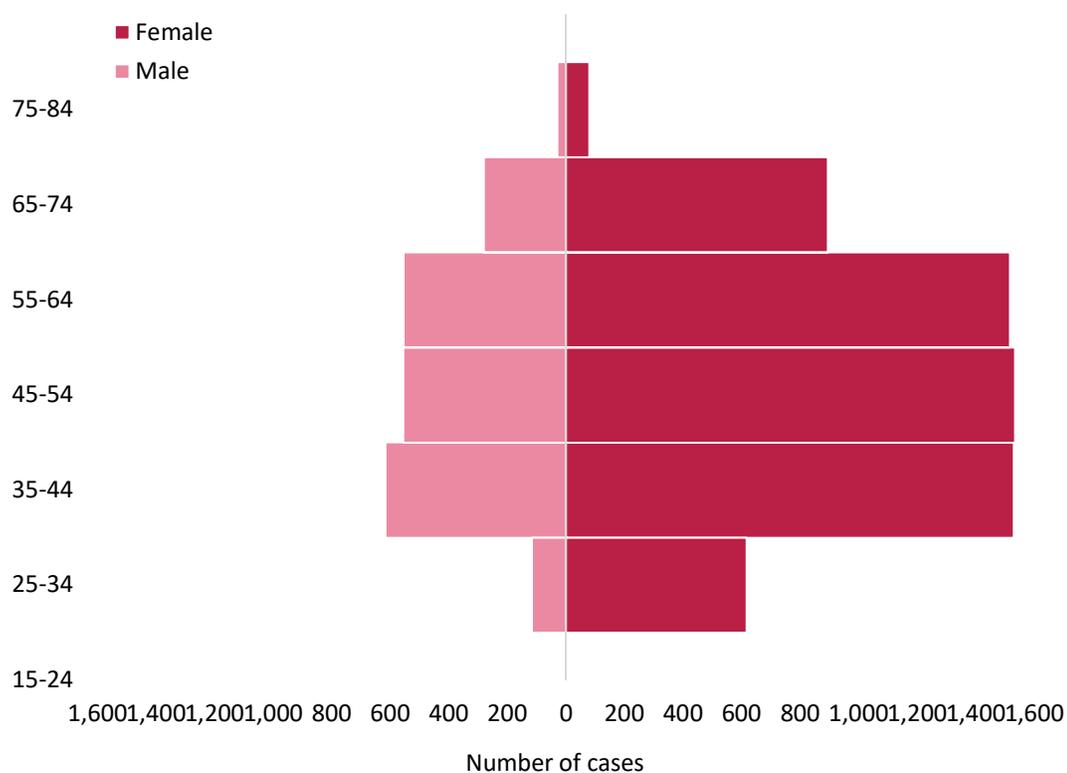


**Figure 2.** Distribution of HCW COVID-19 cases by week in which case was notified \* and age group (n=8338)



\* Age was not available for 9 cases.

**Figure 3. Distribution of HCW COVID-19 cases by age and sex (n=8321) \***



\* 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	4873	58.4%	32
HSE M	450	5.4%	<5
HSE MW	365	4.4%	-
HSE NE	1147	13.7%	6
HSE NW	307	3.7%	<5
HSE SE	336	4.0%	-
HSE S	442	5.3%	<5
HSE W	427	5.1%	<5
<b>Total</b>	<b>8347</b>	<b>100.0%</b>	<b>43</b>

**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	822	9.8%	<5
CHO2	427	5.1%	<5
CHO3	365	4.4%	-
CHO4	442	5.3%	<5
CHO5	336	4.0%	-
CHO6	903	10.8%	<5
CHO7	1794	21.5%	11
CHO8	1082	13.0%	5
CHO9	2176	26.1%	17
Total	8347	100.0%	43

**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	2711	32.40%	11
Healthcare assistant	2189	26.30%	14
Doctor	507	6.00%	-
Porter	91	1.10%	<5
Other HCW	1992	15.10%	9
Unknown	857	10.30%	8
Total	8347	100.00%	43

**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	2021	24.3%	7
Hospital	725	8.6%	-
Private house	520	6.2%	-
Residential institution	414	5.0%	-
Comm. Hosp/Long-stay unit	222	2.7%	1
Workplace	35	0.4%	-
Travel related	29	0.3%	-
Extended family	16	0.2%	-
Community outbreak	16	0.2%	1
Public house	1	0.0%	-
Restaurant / Cafe	1	0.0%	1
Unknown	1	0.0%	-
Not Specified	1	0.0%	-
Other	17	0.2%	-
Not linked to an outbreak	4328	51.8%	33
<b>Total</b>	<b>8347</b>	<b>100.0%</b>	<b>43</b>

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

Underlying clinical conditions	Number	Percentage
Yes	2912	34.9%
No	4651	55.7%
Unknown	784	9.4%
<b>Total</b>	<b>8347</b>	<b>100.0%</b>

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

Transmission classification*	Number	Percentage
Community transmission - including possible community transmission**	1334	16.4%
Local transmission	6872	81.9%
Travel related	141	1.7%
<b>Total</b>	<b>8347</b>	<b>100%</b>

\*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.

\*\* Community transmission relates to those in table 11 below who are in the two categories community transmission and under investigation.

‘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=1075 12.8%) 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*	5925	71.1%
Close contact with a known confirmed case	937	11.2%
Travel related	141	1.7%
Community transmission	259	3.1%
Healthcare setting acquired: patient	10	0.1%
Under investigation	1075	12.8%
<b>Total</b>	<b>8347</b>	<b>100.0%</b>

\*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.