

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

Report prepared by HPSC on 06/07/2020

**Note: Data are provisional**

## Summary

This report includes data as of 6<sup>th</sup> July 2020 at 9:15 am for events created on CIDR up to midnight Saturday 4<sup>th</sup> July 2020.

Characteristic of HCW COVID-19 cases	Number	%
Total number of COVID-19 cases	25960	-
Total number of HCW cases	8293	31.9
Number of new cases reported between 28 June - 4 July	22	-
Median age (IQR)	41 (31-50) years	-
Total number hospitalised	310	3.7
The median age (IQR) of hospital inpatient	46 (34-53) years	
Total number admitted to ICU	49	15.8*
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 25960 COVID-19 cases reported as of 04/07/2020 12.00 midnight, 8293 (31.9%) 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 (74.0%) among HCW COVID-19 cases compared to non-HCW COVID-19 cases (49.2%), 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.

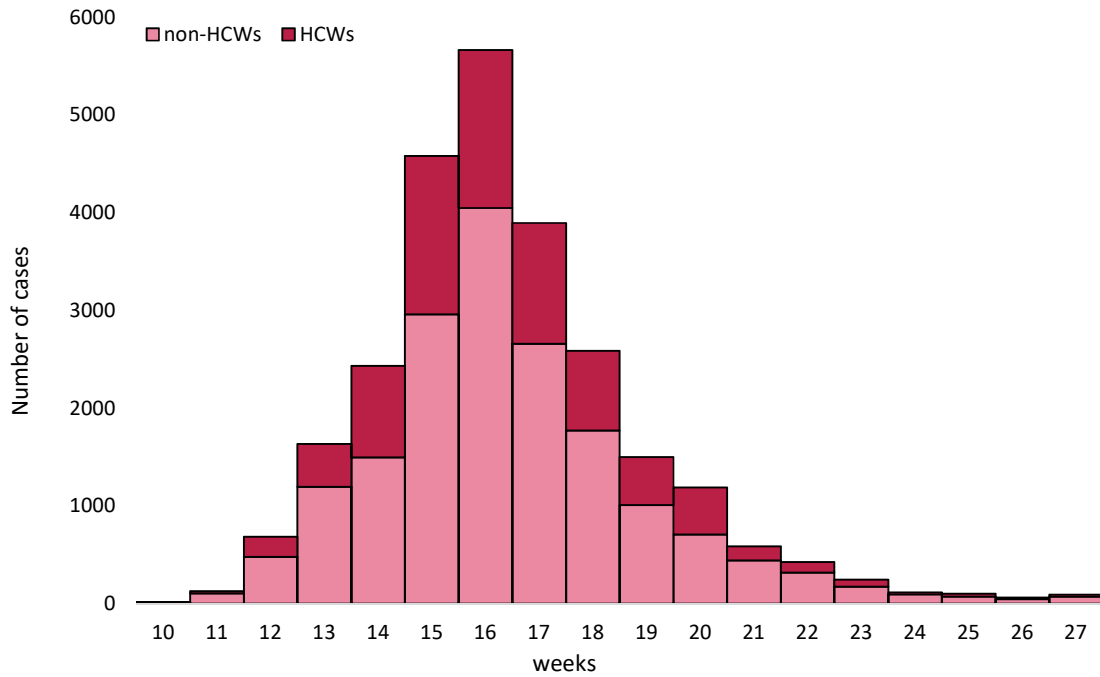
This report includes all HCW COVID-19 cases (n=8293) reported to HPSC, including confirmed, probable and possible cases. There are 59 (0.7%) probable or possible HCW COVID-19 cases included in the report.

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

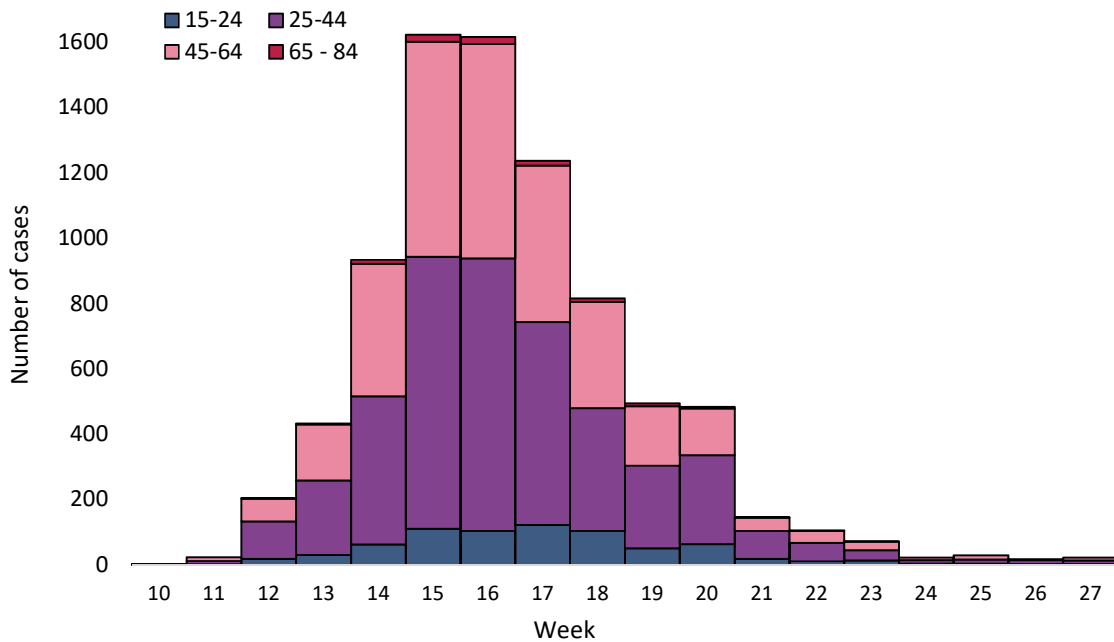
Epi Week (Calendar Date)	Number of HCWs	Total number of cases*	Proportion of HCWs (%)
10 (1 – 7, March)	3	16	18.8
11 (8 – 14, March)	23	128	18.0
12 (15 – 21, March)	205	684	30.0
13 (22 – 28, March)	436	1633	26.7
14 (29 March - 4 April)	937	2435	38.5
15 (5 – 11, April)	1623	4584	35.4
16 (12 – 18, April)	1617	5667	28.5
17 (19 - 25, April)	1238	3896	31.8
18 (26 April – 2 May)	816	2589	31.5
19 (3 –9 May)	495	1502	33.0
20 (10-16 May)	484	1190	40.7
21 (17-23 May)	146	588	24.8
22 (24-30 May)	106	425	24.9
23 (31 May - 6 June)	72	246	29.3
24 (7 – 13 June)	22	116	19.0
25 (14-20 June)	30	103	29.1
26 (21-27 June)	18	63	28.6
27 (28 June- 4 July)	22	95	23.2
<b>Total</b>	<b>8293</b>	<b>25960</b>	<b>31.9</b>

\*including HCWs

**Figure 1.** Proportion of HCW and non-HCW COVID-19 cases by week in which case was notified (n= 25960)

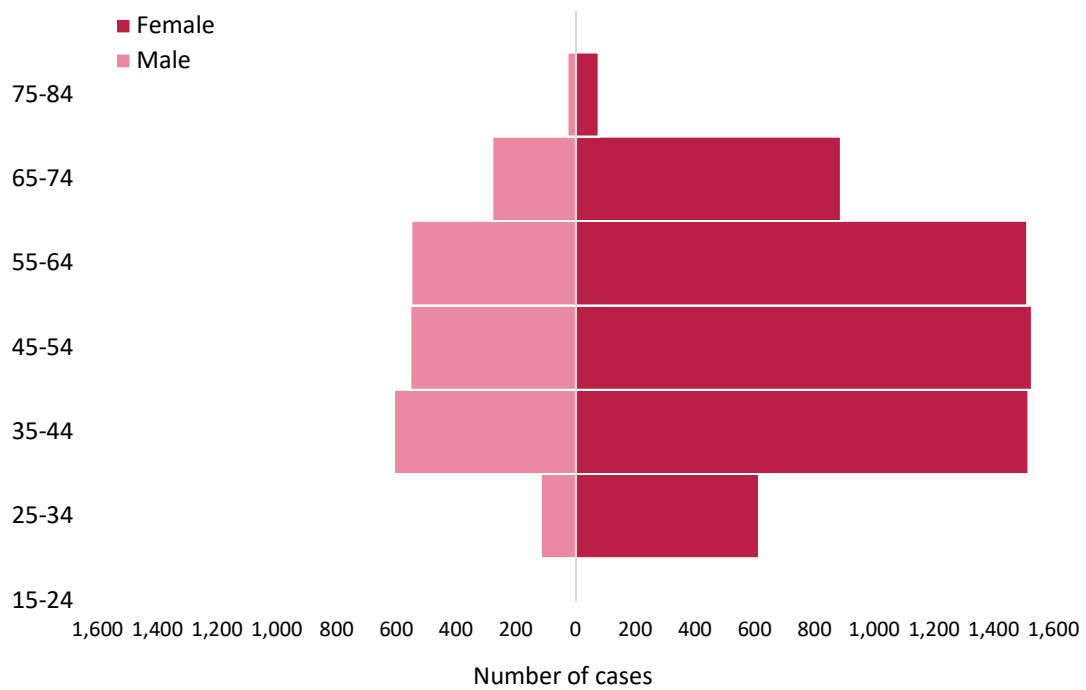


**Figure 2.** Distribution of HCW COVID-19 cases by week in which case was notified \* and age group (n=8284)



\* Age was not available for 9 cases.

**Figure 3. Distribution of HCW COVID-19 cases by age and sex (n=8267) \***



\* 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	4845	58.4%	14
HSE M	444	5.4%	<5
HSE MW	363	4.4%	<5
HSE NE	1136	13.7%	0
HSE NW	306	3.7%	<5
HSE SE	334	4.0%	0
HSE S	437	5.3%	<5
HSE W	428	5.2%	<5
<b>Total</b>	<b>8293</b>	<b>100%</b>	<b>22</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	816	9.8%	<5
CHO2	428	5.2%	<5
CHO3	363	4.4%	<5
CHO4	437	5.2%	<5
CHO5	334	4.0%	0
CHO6	899	10.8%	<5
CHO7	1785	21.5%	11
CHO8	1070	12.9%	<5
CHO9	2160	26.1%	<5
Unknown	1	0%	0
Total	8293	100%	22

**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	2699	32.5%	<5
Healthcare assistant	2173	26.3%	15
Doctor	507	6.1%	<5
Porter	90	1.1%	-
Other HCW	1974	23.7%	-
Unknown	850	10.3%	-
Total	8293	100%	22

**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	1990	24.1%	6
Hospital	725	8.7%	-
Private house	482	5.8%	-
Residential institution	406	4.9%	-
Comm. Hosp/Long-stay unit	220	2.7%	-
Workplace	33	0.4%	-
Travel related	28	0.3%	-
Extended family	18	0.2%	-
Community outbreak	14	0.2%	-
Public house	1	0.0%	-
Unknown	1	0.0%	-
Not Specified	1	0.0%	-
Other	12	0.1%	-
Not linked to an outbreak	4362	52.6%	16
Total	8293	100%	22

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

Underlying clinical conditions	Number	Percentage
Yes	2896	34.9%
No	4616	55.6%
Unknown	781	9.5%
Total	8293	100%

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

Transmission classification*	Number	Percentage
Community transmission - including possible community transmission**	1361	16.4%
Local transmission	6792	81.9%
Travel related	140	1.7%
Total	8293	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.

\*\* 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=1118 13.4%) 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*	5783	69.9%
Close contact with a known confirmed case	962	11.5%
Travel related	140	1.7%
Community transmission	243	2.9%
Healthcare setting acquired: patient	47	0.6%
Under investigation	1118	13.4%
Total	8293	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.