

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

Report prepared by HPSC on 17/08/2020

**Note: Data are provisional**

## Summary

Healthcare worker (HCW) status is determined both by self-classification and workplace. The definition includes anyone who self-identifies as a HCW irrespective of where they work. In addition, all staff that work in any healthcare facility (includes cleaners, household staff etc.) are classified as HCWs. The category includes healthcare workers employed both by public and private providers.

This report includes data as of 17<sup>th</sup> August 2020 at 9:15 am for events created on CIDR up to midnight Saturday 15<sup>th</sup> August 2020.

Characteristic of HCW COVID-19 cases	Number	%
<b>Total number of COVID-19 cases</b>	27723	-
<b>Total number of HCW cases</b>	8563	30.9
<b>Number of new HCW cases reported between 9 – 15 August</b>	36	-
<b>Median age (IQR)</b>	41 (31-50) years	-
<b>Total number hospitalised</b>	328	3.8
<b>The median age (IQR) of hospital inpatient</b>	46 (34-54) years	
<b>Total number admitted to ICU</b>	54	16.4*
<b>The median age (IQR) of HCW in ICU</b>	51 (43-60) years	-
<b>Total number of deaths</b>	8**	0.09
<b>The median age (range) for deaths</b>	54 (30-68) years	-

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

\*\*Seven confirmed and 1 probable COVID-19 case.

There was a total of 27723 COVID-19 cases reported as of 15/08/2020 12.00 midnight, 8563 (30.9%) 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 (73.9%) among HCW COVID-19 cases compared to non-HCW COVID-19 cases (48.6%), most likely due to some HCW specialities e.g. nursing, being female dominated. The majority (58.2%) 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.

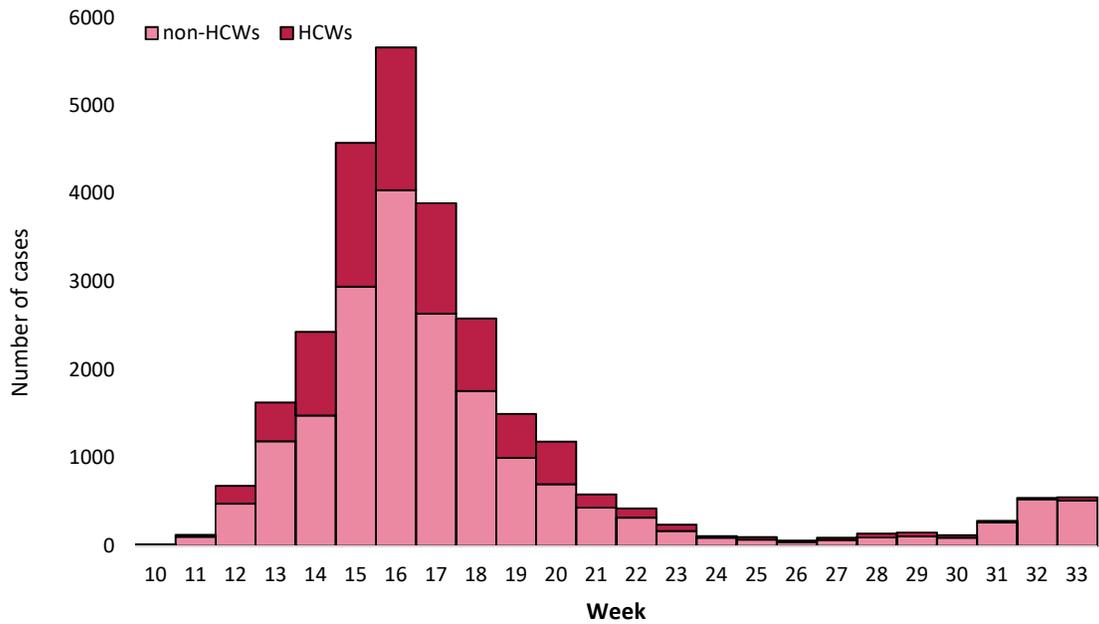
This report includes all HCW COVID-19 cases (n=8563) reported to HPSC, including confirmed, probable and possible cases. There are 63 (0.7%) probable or possible HCW COVID-19 cases included in the report.

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

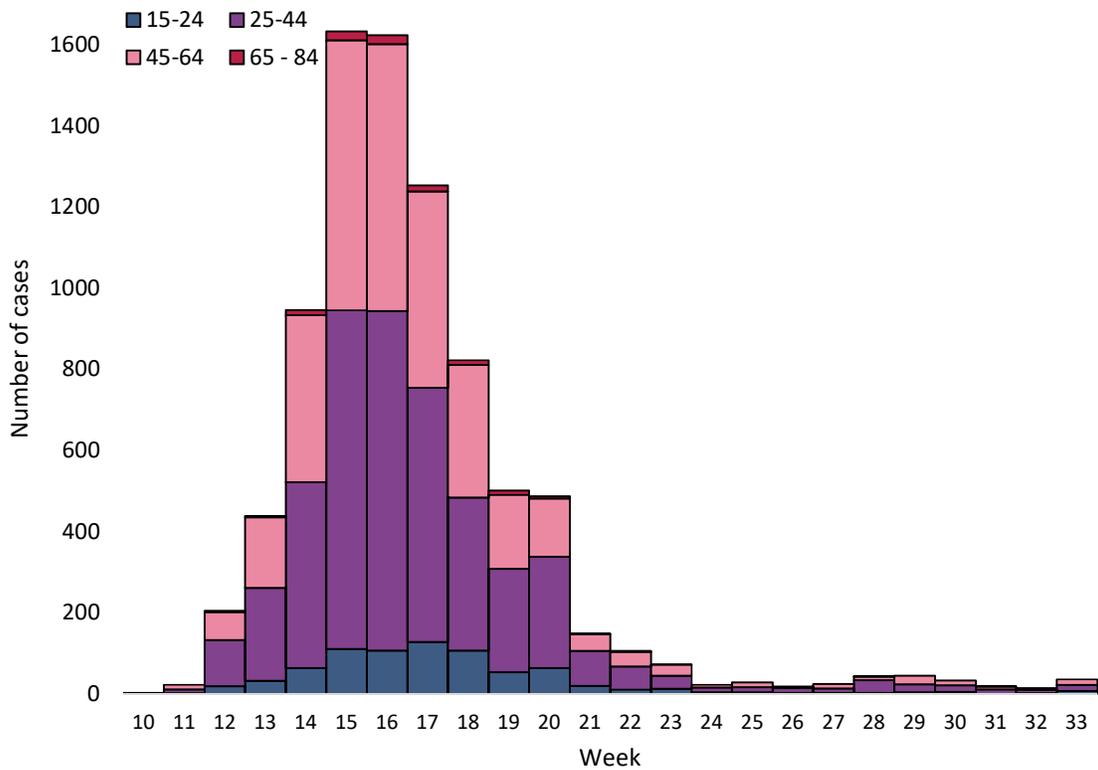
Epi Week (Calendar Date)	Number of HCWs	Total number of cases*	Proportion of HCWs (%)
10 (1 – 7, March)	3	16	18.8
11 (8 – 14, March)	23	128	18.0
12 (15 – 21, March)	205	683	30.0
13 (22 – 28, March)	441	1631	27.0
14 (29 March - 4 April)	950	2433	39.0
15 (5 – 11, April)	1634	4579	35.7
16 (12 – 18, April)	1625	5664	28.7
17 (19 - 25, April)	1256	3892	32.3
18 (26 April – 2 May)	823	2582	31.9
19 (3 – 9 May)	501	1500	33.4
20 (10-16 May)	487	1187	41.0
21 (17-23 May)	149	585	25.5
22 (24-30 May)	106	425	24.9
23 (31 May - 6 June)	73	242	30.2
24 (7 – 13 June)	23	114	20.2
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)	44	139	31.7
29 (12- 18 July)	45	154	29.2
30 (19-25 July)	33	124	26.6
31 (26 July – 1 August)	19	286	6.6
32 (2 – 8 August)	15	547	2.7
33 (9 – 15 August)	36	553	6.5
<b>Total</b>	<b>8563</b>	<b>27723</b>	<b>30.9</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= 27723)

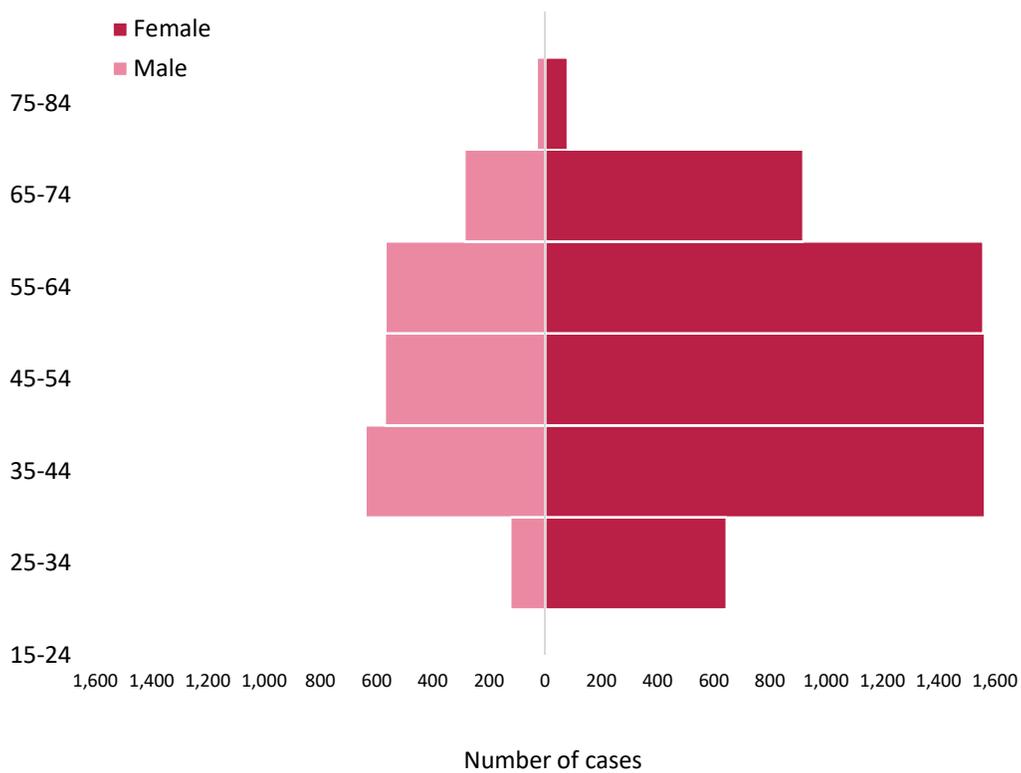


**Figure 2.** Distribution of HCW COVID-19 cases by week in which case was notified \* and age group (n=8554)



\* Age was not available for 9 cases.

**Figure 3. Distribution of HCW COVID-19 cases by age and sex (n=8539) \***



\* Age and sex were not available for 24 cases.

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

HSE area	Number of HCWs cases	Proportion of all HCW cases (%)	Number of new HCW cases since last week
HSE E	4984	58.2%	19
HSE M	456	5.3%	<5
HSE MW	374	4.4%	<5
HSE NE	1181	13.8%	<5
HSE NW	311	3.6%	<5
HSE SE	358	4.2%	5
HSE S	462	5.4%	<5
HSE W	437	5.1%	<5
<b>Total</b>	<b>8563</b>	<b>100.0%</b>	<b>36</b>

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

CHO area	Number of HCWs cases	Proportion of all HCW cases (%)	Number of new HCW cases since last week
CHO1	835	9.7%	<5
CHO2	437	5.1%	<5
CHO3	374	4.4%	<5
CHO4	462	5.4%	<5
CHO5	358	4.2%	5
CHO6	926	10.8%	6
CHO7	1833	21.4%	8
CHO8	1113	13.0%	<5
CHO9	2225	26.0%	5
Total	8563	100.0%	36

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

HCW Role	Number of HCWs cases	Proportion of all HCW cases (%)	Number of new HCW cases since last week
Nurse	2769	32.3%	5
Healthcare assistant	2277	26.7%	13
Doctor	536	6.2%	<5
Porter	98	1.1%	0
Other HCW	1996	23.3%	13
Not Specified	887	10.4%	<5
Total	8563	100.0%	36

**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 HCW cases (%)	Number of new HCW cases since last week
Nursing home	2109	24.7%	<5
Hospital	733	8.5%	<5
Private house	738	8.6%	<5
Residential institution	452	5.3%	0
Comm. Hosp/Long-stay unit	231	2.7%	0
Workplace	33	0.4%	0
Travel related	30	0.3%	0
Extended family	17	0.2%	0
Community outbreak	15	0.2%	<5
Public house	2	0.0%	0
Restaurant / Cafe	3	0.0%	<5
Hotel	1	0.0%	0
Unknown	1	0.0%	0
Other	22	0.3%	0
Not linked to an outbreak	4176	48.7%	27
Total	8563	100.0%	36

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

Underlying clinical conditions	Number	Proportion (%)
Yes	2972	34.7%
No	4776	55.8%
Unknown	815	9.5%
Total	8563	100.0%

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

Transmission classification*	Number	Proportion (%)
Community transmission - including possible community transmission**	1187	13.9%
Local transmission	7229	84.4%
Travel related	147	1.7%
Total	8563	100.0

\*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=853 9.9%) 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	Proportion (%)
Healthcare setting acquired: staff*	6229	72.8%
Close contact with a known confirmed case	985	11.4%
Travel related	147	1.7%
Community transmission	334	3.9%
Healthcare setting acquired: patient	15	0.2%
Under investigation	853	9.9%
Total	8563	100.0%

\*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.

## **Acknowledgements**

Sincere thanks are extended to all those who are participating in the collection of data and reporting of data used in these reports. 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.