COVID-19 Outbreaks - update for NPHET

Epi Team, HPSC, 20/10/2020
COVID-19 outbreaks by key outbreak locations, week 42 and overall, 2020 Ireland

- Since March 1st 2020, 5,590 outbreaks have been notified to CIDR
- In week 42, 649 outbreaks were notified; 461 in private houses, 188 in other locations

<table>
<thead>
<tr>
<th>Key outbreak locations</th>
<th>Week 42</th>
<th>Weeks 10-42</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workplace</td>
<td>18</td>
<td>198</td>
</tr>
<tr>
<td>Direct Provision Centre</td>
<td>0</td>
<td>31</td>
</tr>
<tr>
<td>Vulnerable groups*</td>
<td>19</td>
<td>60</td>
</tr>
<tr>
<td>Nursing Home/Community Hospital</td>
<td>6</td>
<td>344</td>
</tr>
<tr>
<td>Acute hospitals</td>
<td>7</td>
<td>137</td>
</tr>
<tr>
<td>School^</td>
<td>46</td>
<td>118</td>
</tr>
<tr>
<td>Childcare facility</td>
<td>7</td>
<td>36</td>
</tr>
</tbody>
</table>

*Includes Irish Travellers, Roma and homeless population

^These outbreaks are associated with school children +/- school staff. Transmission of COVID-19 within the school has not necessarily been established in these outbreaks

Data source: CIDR October 20th 2020 – data to midnight 17/10/2020
Significantly more outbreaks in week 42 n=649, week 41 n=522

Vulnerable groups
- Irish Traveller outbreaks
  - 31 ‘open’ outbreaks (17 in week 42)
  - 704 cases in Irish Travellers since 20th September
- No new outbreaks in DPCs, Roma or homeless populations

Workplace & construction sector outbreaks
- Three new outbreaks in food production since 12/10/2020 with 12 linked cases
- Two new construction sector outbreaks with 8 linked cases
- Three other workplace outbreaks, with 26, 12 and 6 linked cases

Nursing Homes & Community Hospitals
- 33/344 outbreaks remain open with 451 linked cases
- Five largest outbreaks: 47-51 cases linked
- Since September 1st, 33 deaths have occurred in cases linked to NH outbreaks

Acute hospitals
- Two new outbreaks since 12/10/2020 with three linked cases

Schools
- 38 new outbreaks since 12/10/2020 with 69 linked cases
- 17 outbreaks ≥ 2 linked cases (range 2-10)

Childcare facilities
- Five new outbreaks since 12/10/2020 with 16 linked cases
- Four outbreaks ≥ 2 linked cases (range 2-9)

Hospitality and social settings (30/08/2020 -17/10/2020)
- 1271 cases linked to 205 outbreaks
- Majority of outbreaks <7 linked cases
- 6 outbreaks >25 linked cases each
COVID-19 infections among Irish Travellers - September 20th-October 20th 2020

Since 20/09/2020
• 704 confirmed cases
• 190 in HSE-E (27%) and 198 in HSE-MW (28%)
• Among 31 associated outbreaks, 8 had >20 linked cases
• 17 new outbreaks in week 42

Inclusion criteria
Cases linked to outbreaks reported as affecting Irish Travellers OR whose ethnicity is reported as Irish Traveller, September 20th 2020 to October 20th 2020 7-30 am
Characteristics of COVID-19 among Irish Travellers: September 20th-October 20th 2020

- 594 confirmed COVID-19 cases linked to 31 outbreaks and 110 additional sporadic confirmed cases
- 48% (336/704) were male & median age 24 years
- 59% (417/704) were symptomatic, 3.7% (n=26) were hospitalised, 0.6% (n=4) were admitted to ICU
- One death in an elderly female with underlying health condition

<table>
<thead>
<tr>
<th>Irish travellers</th>
<th>Outbreak</th>
<th>Linked confirmed cases</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number of outbreaks</td>
<td>Number of cases</td>
</tr>
<tr>
<td>Data from outbreaks among Irish Travellers</td>
<td>31</td>
<td>594</td>
</tr>
<tr>
<td>Data from cases among Irish travellers that are not linked to outbreaks among Irish Travellers</td>
<td>-</td>
<td>110</td>
</tr>
<tr>
<td>Total</td>
<td>-</td>
<td>704</td>
</tr>
</tbody>
</table>

Data source: CIDR October 20th 7:30 am
• To date, total of 314 confirmed cases linked to 31 notified outbreaks in DPCs
• No new DPC outbreaks since week 40
• Seven DPC outbreaks (A to G) notified since July 1st remain ‘open’,
• 42 confirmed cases linked to these seven ‘open’ outbreaks
• Among the 42 cases; two hospitalisations but no ICU admissions or deaths

Data source: CIDR October 20th 2020 – data to midnight 17/10/2020
Outbreaks linked with Roma and the Homeless – July to October 17th 2020

- 109 COVID-19 cases linked to 16 outbreaks in Roma and Homeless, March - October 17th 2020
- No new outbreaks this week
- Three outbreaks remain open

<table>
<thead>
<tr>
<th>Vulnerable group</th>
<th>Outbreak</th>
<th>Linked confirmed cases</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number of outbreaks</td>
<td>Number of cases</td>
</tr>
<tr>
<td>Homeless</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Roma community</td>
<td>1</td>
<td>12</td>
</tr>
<tr>
<td>Total</td>
<td>3</td>
<td>17</td>
</tr>
</tbody>
</table>

Data source: CIDR October 19th 2020 - data to midnight 17/10/2020
Workplace outbreaks – Food production/processing

- 127 cases are linked to the 13 open outbreaks in this sector
- The largest outbreak involves 50 cases, followed by HSE-M facility with 41 cases (no change from last week)
- Three new outbreaks were reported in this sector (involving 12 cases)
- Overall, 18 cases linked to the 13 outbreaks occurred in the last 14 days; including 10 within the last 7 days

Figure 1. Epidemic curve of cases linked to open food production and processing outbreaks since August 2020, Ireland.
Workplace outbreaks – Construction sector/other workplace

- 30 cases are associated with the eight open outbreaks in the construction/building sector
- Six cases have an epi date within the last 14 days, none within the last 7 days
- All outbreaks are relatively small, ranging in size from 1-6 cases

Figure 3. Epidemic curve of cases linked to open outbreaks in the construction sector since August 1st 2020, Ireland.

- Three additional outbreaks of note in workplace settings were reported since the middle of September, involving 6, 12 and 26 cases respectively

Data source: CIDR October 19th 2020 - data to midnight 19/10/2020
### Overview

- **344 outbreaks** in Community Hospital/Long Stay Units between March & October 17th 2020

  - **58 outbreaks** notified since 1st July 2020 have **590 linked confirmed cases** (Figure shows distribution of linked cases since July 1st 2020)

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#### Data source: CIDR October 19th

#### Table: Outbreaks location

<table>
<thead>
<tr>
<th>Location</th>
<th>Number of outbreaks</th>
<th>Number of cases</th>
<th>Number hospitalised</th>
<th>Number admitted to ICU -</th>
<th>Number hospitalised and died</th>
<th>Number who died</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comm. Hosp/Long-stay unit</td>
<td>33</td>
<td>519</td>
<td>33</td>
<td>1</td>
<td>10</td>
<td>69</td>
</tr>
<tr>
<td>Nursing home</td>
<td>311</td>
<td>6427</td>
<td>465</td>
<td>14</td>
<td>188</td>
<td>845</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>344</strong></td>
<td><strong>6946</strong></td>
<td><strong>498</strong></td>
<td><strong>15</strong></td>
<td><strong>198</strong></td>
<td><strong>914</strong></td>
</tr>
</tbody>
</table>

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### Figure

- Distribution of linked cases since July 1st 2020

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Data source: CIDR October 19th 2020 - data to midnight 17/10/2020
Focus on ‘Open’ Nursing Homes and Community Hospital/Long Stay Units since July 1\textsuperscript{st} 2020

- 33 outbreaks remain ‘open’
  - 451 associated cases (167 HCW/staff cases, 177 client cases, 107 cases HCW status unknown)
  - 7 outbreaks include only HCW/staff cases, 16 include both HCW/staff cases and client cases, for 8, it is unclear what mix of cases they include, and 2 have no linked cases on CIDR
  - 2-51 linked cases per ‘Open’ outbreak – the five largest open outbreaks have 47, 49, 50, 50 and 51 cases respectively

Data source: CIDR October 19\textsuperscript{th} 2020 - data to midnight 17/10/2020
Deaths among confirmed COVID-19 cases notified since July 1st linked to outbreaks in Nursing Home and Community Hospital/Long Stay Units

Of 33 deaths among confirmed COVID-19 cases linked to outbreaks in Nursing Home and Community Hospital/Long Stay Units

- 30 (91%) were >75 years
- 23 (70%) were male

Data source: CIDR October 20th 2020 - data to midnight 19/10/2020
Hospital outbreaks to midnight 19th October 2020 (n=135)

Overview

- 135 outbreaks in acute hospitals
- 25 ‘open’ acute hospital outbreaks (all occurring since 1\textsuperscript{st} August 2020)
  - in 6 of the 8 HSE areas
- 152 confirmed cases linked (range 1-48)
- 2 new outbreaks since 12/10/2020 with 3 linked cases
Outbreaks associated with school children and staff to midnight 17th October 2020 (n=118)

Overview
• 118 outbreaks associated with school children and staff notified
• 257 linked events in total
• 56 outbreaks have ≥2 linked cases (range 2-19)

Update
• 38 new outbreaks reported since 12/10/2020
• 69 events linked
• 17 outbreaks have ≥2 linked cases (range 2-10)

Data source: CIDR October 19th 2020 - data to midnight 17/10/2020
Epidemic curve of cases linked to outbreaks associated with school children and staff to midnight 17th October 2020 (n=257) by age group and epi date

Note: Excludes two events linked to outbreaks with event creation dates after 17/10/2020

Data source: CIDR October 19th 2020 - data to midnight 17/10/2020
Outbreaks associated with childcare facilities to midnight 17th October 2020 (n=36)

- **Overview**
  - 36 outbreaks associated with children and staff in childcare facilities notified
    - 20 (56%) were in HSE-East
    - 127 linked events in total
    - 28 outbreaks have ≥2 linked cases (range 2-14)

- **Update**
  - 5 new outbreaks reported since 12/10/2020
    - 16 events linked to these 5 outbreaks

Data source: CIDR October 19th 2020 - data to midnight 17/10/2020
Epidemic curve of cases linked to outbreaks associated with childcare facility outbreaks to midnight 17th October 2020 (n=127) by age group and epi date

Data source: CIDR October 19th 2020 - data to midnight 17/10/2020
Outbreaks linked with hospitality and social settings: August 30th - October 17th 2020

- 1271 cases linked to 205 outbreaks linked with hospitality and social settings - August 30th - October 17th 2020
- 471 confirmed cases (37%) linked with ‘community’ outbreaks

Data source: CIDR October 19th 2020 - data to midnight 17/10/2020

*excluding those linked with Irish Travellers which are reported elsewhere
Characteristics of outbreaks linked with hospitality and social settings: August 30th - October 17th 2020

The majority of outbreaks linked with hospitality and social settings have 7 or fewer cases; six outbreaks had >25 linked confirmed cases.

<table>
<thead>
<tr>
<th>Location</th>
<th>Outbreaks</th>
<th>Linked confirmed cases</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number of outbreaks</td>
<td>Number of confirmed cases</td>
</tr>
<tr>
<td>Guest house / B and B</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>Hotel</td>
<td>6</td>
<td>84</td>
</tr>
<tr>
<td>Public house</td>
<td>16</td>
<td>95</td>
</tr>
<tr>
<td>Restaurant / Cafe</td>
<td>28</td>
<td>201</td>
</tr>
<tr>
<td>Community outbreak</td>
<td>94</td>
<td>473</td>
</tr>
<tr>
<td>Religious/Other ceremony</td>
<td>6</td>
<td>25</td>
</tr>
<tr>
<td>Social gathering</td>
<td>35</td>
<td>280</td>
</tr>
<tr>
<td>Sporting activity/fitness</td>
<td>19</td>
<td>109</td>
</tr>
<tr>
<td>Total</td>
<td>205</td>
<td>1271</td>
</tr>
</tbody>
</table>

Data source: CIDR October 19th 2020 - data to midnight 17/10/2020