Public Health Scotland COVID-19 Statistical Report
As at 1 June 2020
## Contents

Introduction .......................................................................................................................... 3
Main Points ............................................................................................................................ 4
Results and Commentary ...................................................................................................... 5
  COVID-19 Confirmed Cases ............................................................................................. 5
  COVID-19 Admissions into Hospital .................................................................................. 9
  Deprivation profile of hospital admission ....................................................................... 12
  Patients in Intensive Care ................................................................................................. 13
COVID-19 Activity in the Community .................................................................................. 16
COVID-19 Contacts with NHS 24 111 and COVID-19 Advice Helpline ............................. 17
COVID-19 Community Hub and Assessment Centres ....................................................... 20
COVID-19 Contacts with Scottish Ambulance Service ...................................................... 24
Wider Impact of COVID-19 ................................................................................................. 27
Introduction

On 1 March 2020, the first person in Scotland was tested positive for COVID-19. On 17 March NHS Scotland was placed in an emergency footing by the Cabinet Secretary. Schools have been closed since 20 March and the country has been in lockdown since 23 March. Scotland entered phase one of easing out of lockdown on Friday 29 May 2020.

Since the start of the outbreak Public Health Scotland (PHS) has been working closely with Scottish Government and health and care colleagues in supporting the surveillance and monitoring of COVID-19 amongst the population.

The primary focus of this report is a look at some of the demographic characteristics (age, sex, deprivation) of people affected by the virus. It also looks at some of the wider impact of the virus on the healthcare system, comparing recent trends in activity with historic norms.

There is a large amount of data being regularly published regarding COVID-19 (for example, Coronavirus in Scotland – Scottish Government and Deaths involving coronavirus in Scotland – National Records of Scotland). This report complements the range of existing data currently available.

The coronavirus pandemic is a rapidly evolving situation. This report provides an analysis of the data up to 1 June 2020. Future reports will provide further data and analysis to contribute to the evidence base around the outbreak.
Main Points

- As at 1 June 2020, there have been 15,418 confirmed COVID-19 cases, equating to 282.2 confirmed cases per 100,000 population.
- 9,527 (62%) of confirmed cases, as at 1 June 2020, were female; 5,883 (38%) were male.
- The number of confirmed cases increases with age. For those aged 75+ the rate is 1105.7 per 100,000 compared with 324.9 per 100,000 for those aged 45-64, a 3.4-fold difference.
- Between 1 March 2020 and 29 May 2020, there had been 5,735 admissions to hospital with a laboratory confirmed test of COVID-19.
- As at 30 May 2020, 512 confirmed COVID-19 patients have been treated in an Intensive Care Unit.
- After initially increasing to around 2,300 per day, the number of COVID-19 related contacts with NHS 24 has decreased to around 600 per day.
- At the peak of 6 April, Scottish Ambulance Service attended 653 suspected COVID-19 incidents.
- On average 128 people have attended the COVID-19 assessment centres each day, over the last two weeks. (*NHS Grampian data is included from 1 May 2020*)
- People from the most deprived areas are twice as likely to contact NHS 24, the COVID-19 hubs and assessment centres than those from the least deprived areas.
- Uptake continues to exceed 90% among children who were due their first dose of the 6-in-1 vaccine in March and early April.
Results and Commentary

The analysis within this report is based on the period to 1 June 2020.

COVID-19 Confirmed Cases

The first part of this report contains information on cases of COVID-19 that have been confirmed by laboratory testing.

The total number of people within Scotland who have, or have had COVID-19, since the coronavirus outbreak began is unknown. The number of confirmed cases is likely to be an underestimate of the total number who have, or have had, COVID-19. This is because there are affected persons in the population infected with the virus, many of whom display mild symptoms and who do not require specialist hospitalised treatment. These people are not likely to have had a laboratory test for COVID-19.

For the reporting period of this report, those tested are mainly patients who are, or have been, in hospital. It also includes other groups of people such as key workers and some testing carried out in care homes. The number of confirmed cases includes people from all those groups who have been tested.

As the number of people being tested for COVID-19 increases, the pattern observed in the data within this report may change.

As at 1 June 2020;

- There have been 15,418 people in Scotland who have tested positive for COVID-19 since the start of the outbreak.
- This equates to 282.2 people per 100,000 population having tested positive for COVID-19.

The numbers of newly confirmed COVID-19 cases, on both a daily and cumulative basis, are shown in Figure 1 and Figure 2 respectively. Figure 1 shows a decreasing 7 day moving average for positive cases across Scotland. There has been a decreasing trend since 23 April 2020 with a current 7 day moving average of around 45 cases. This data is monitored and published daily on the Scottish Government Coronavirus website (https://www.gov.scot/coronavirus-covid-19/). The drop in the number of confirmed cases at weekends likely reflects that laboratories are doing fewer tests at the weekend.

Note that the number of confirmed cases shown for each day may differ slightly from data published on the Scottish Government website. This is because the data below has some cases added retrospectively and assigned to days based on the most up to date records. This has no impact on the overall number of confirmed cases.
Figure 1: Daily number of confirmed cases and 7-day moving average

Note: Date refers to the date the sample was received into the PHS Surveillance System.

Figure 2: Cumulative number of confirmed cases

Note: Date refers to the date the sample was received into the PHS Surveillance System.
Age and sex profile of confirmed cases

- Table 1 shows the number of confirmed cases by age and sex as at 1 June 2020. 62% of confirmed cases are female; 38% of confirmed cases are male.
- One in four confirmed cases (24%) were in the 15-44 age group; one in three (32%) in the 45-64 age group and four in ten (43%) aged 65 years and over.
- 41 children aged under 5 years had tested positive for COVID-19.

Table 1: Total number of confirmed cases by age group and sex as at 1 June 2020

<table>
<thead>
<tr>
<th>Age group (years)</th>
<th>Male</th>
<th>Female</th>
<th>Unknown</th>
<th>Total</th>
<th>Rate per 100,000 population</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 4</td>
<td>18</td>
<td>23</td>
<td>0</td>
<td>41</td>
<td>15.1</td>
</tr>
<tr>
<td>5 - 14</td>
<td>33</td>
<td>33</td>
<td>0</td>
<td>66</td>
<td>11.1</td>
</tr>
<tr>
<td>15 - 44</td>
<td>1,088</td>
<td>2,657</td>
<td>5</td>
<td>3,750</td>
<td>182.7</td>
</tr>
<tr>
<td>45 - 64</td>
<td>1,834</td>
<td>3,038</td>
<td>2</td>
<td>4,874</td>
<td>324.9</td>
</tr>
<tr>
<td>65 - 74</td>
<td>850</td>
<td>679</td>
<td>1</td>
<td>1,530</td>
<td>264.6</td>
</tr>
<tr>
<td>75 - 84</td>
<td>1,185</td>
<td>1,286</td>
<td>0</td>
<td>2,471</td>
<td>729.4</td>
</tr>
<tr>
<td>85+</td>
<td>869</td>
<td>1,811</td>
<td>0</td>
<td>2,680</td>
<td>2,108.8</td>
</tr>
<tr>
<td>Unknown</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>-</td>
</tr>
<tr>
<td>All Age groups</td>
<td>5,883</td>
<td>9,527</td>
<td>8</td>
<td>15,418</td>
<td>282.2</td>
</tr>
</tbody>
</table>

Amongst those aged 15-44 years, more than twice as many females than males have been confirmed as having COVID-19. There are likely to be a number of reasons behind this difference, including the testing of NHS and care home staff who are predominately female.

Laboratory confirmation of COVID-19 was more common in older than younger age groups. Figure 3 shows the increasing risk with age. As at 1 June 2020, 1105.7 per 100,000 people aged over 75 years were confirmed as having COVID-19. This contrasts with a rate of 324.9 per 100,000 for those aged 45-64 years, a 3.4-fold difference.
Figure 3: Confirmed case rate per 100,000 population by age group and sex as at 1 June 2020

Deprivation profile of confirmed cases

Figure 4 shows the number of confirmed COVID-19 cases by deprivation category from the most deprived 20% of the population to the least deprived 20% of the population.

While there is no evidence of an overall trend over deprivation groups, the highest proportion of confirmed cases (23%) was accounted for by the most deprived 20% of the population. There are a number of factors that could affect the trend in confirmed cases by deprivation, including the geographical spread of the infection and the underlying health of the population. Further, the deprivation profile of those people tested who are not patients (e.g. key health and care workers), may differ from those that are patients and this will be reflected in the data.

Figure 4: Number of confirmed cases across deprivation categories
COVID-19 Admissions into Hospital

This section looks at the profile of admissions into hospital for patients who were either COVID-19 positive up to 14 days before their admission or had a positive result during their stay. COVID-19 related admissions have been identified as the following:

A patient may have tested positive for COVID-19 14 days prior to admission to hospital, on the day of their admission or during their stay in hospital.

If a patient has tested positive after their date of discharge from hospital, they have not been included in the analysis.

Please note that babies admitted to neonatal care or pregnant women admitted to maternity/obstetric settings are not included in this analyses as they are not captured via the RAPID dataset.

Between 1 March 2020 and 29 May 2020, there had been 5,735 admissions to hospital based on the above definition.

Daily profile of admissions into hospital

Figure 5 shows the daily profile of admissions into acute hospitals. Data are correct as at the time of data extract at 9am on Sunday 31 May 2020. Data are reviewed and validated on a continuous basis and so may be subject to change.

Figure 5: Daily profile of Hospital Admission for those with a positive COVID-19 result and 7 day moving average

The number of daily admissions increased sharply from 22 March 2020 to more than 200 admissions per day during the 1st week of April. Since then the number of admissions per
day into hospital has reduced and, over the past two weeks the average was 12 admissions per day.

The number of days a patient stays in hospital will vary depending on how unwell the patient is. For those patients who have been discharged from hospital (5,281), 55% of patients were in hospital for 7 days or less, 21% were hospitalised for between 1-2 weeks, 11% for between 2-3 weeks and a further 14% for more than 3 weeks. The overall average length of stay for patients who have been discharged from hospital is around 10 days (10.6).

Note that there may be a time lag with some data for the most recent days and some of the above figures may change as more data is submitted.

### Age and Sex profile of hospital admission

Table 2 shows the age and sex profile of admissions into hospital

- More than three out of five admissions (63%) were patients aged 65 and over (3,594 admissions)
- 53% of hospital admissions were male and 47% were female. This is a different profile of the overall confirmed cases (38 % Male; 62% Female) reflecting the workforce contingent within this latter cohort who are predominately female.

Table 2: Age and Sex profile of Hospital Admissions for those with a positive COVID-19 result

<table>
<thead>
<tr>
<th>Age group (years)</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
<th>Rate per 100,000 population</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 4</td>
<td>12</td>
<td>11</td>
<td>23</td>
<td>8.3</td>
</tr>
<tr>
<td>5 - 14</td>
<td>8</td>
<td>8</td>
<td>16</td>
<td>2.7</td>
</tr>
<tr>
<td>15 - 44</td>
<td>212</td>
<td>245</td>
<td>457</td>
<td>22.4</td>
</tr>
<tr>
<td>45 - 64</td>
<td>920</td>
<td>725</td>
<td>1645</td>
<td>109.5</td>
</tr>
<tr>
<td>65 - 74</td>
<td>653</td>
<td>430</td>
<td>1083</td>
<td>189.5</td>
</tr>
<tr>
<td>75 - 84</td>
<td>761</td>
<td>665</td>
<td>1426</td>
<td>430.3</td>
</tr>
<tr>
<td>85+</td>
<td>488</td>
<td>597</td>
<td>1085</td>
<td>879.4</td>
</tr>
<tr>
<td>All Age groups</td>
<td>3,054</td>
<td>2,681</td>
<td>5,735</td>
<td>105.5</td>
</tr>
</tbody>
</table>

Figure 6 below shows the rate of hospital admissions by age and sex. There is a strong age gradient in the admission profile with a higher rate of admission associated with older people. Males have a higher rate of admission than females and this difference is more marked in the older age groups.
Figure 6: Age and Sex Rate per 100,000 population of Hospital Admissions for those with a positive COVID-19 result
Deprivation profile of hospital admission

Figure 7 shows the number of hospital admissions by deprivation category from the most deprived 20% of the population to the least deprived 20% of the population.

Figure 7: Deprivation profile of Hospital Admissions for those with a positive COVID-19 result

There is some evidence of a trend over deprivation groups with half of hospital admissions (51%) coming from the two most deprived areas. This contrasts with the trend for all confirmed cases, where there was no evidence of an overall trend. This will be partly explained by the workforce element in the total number of confirmed cases, whose deprivation profile may differ from that to hospital admissions. This pattern reflects a similar deprivation trend of overall emergency admissions prior to the COVID-19 outbreak.
Patients in Intensive Care

COVID-19 varies in severity from very mild symptoms through to those requiring hospital admission and the most ill who require intensive care treatment and supported ventilation. This section looks at the age and sex profile of those patients who have been admitted into Intensive Care Units (ICU).

Note that this analysis does not include patients in High Dependency Unit (HDU) wards. As this data becomes available, this will be further analysed and published. Also, this analysis only contains adult ICU information.

A total of 512 COVID-19 patients had been admitted into ICU with some staying for more than two weeks.

Table 3 shows the age and sex profile of patients who are, or have been, in ICU (up to 31 May 2020) with a confirmed laboratory test for COVID-19.

Most ICU patients to date have been in the 45 – 64 years age group (286; 56 %).

**Table 3: Number of Confirmed COVID-19 patients who have been admitted to ICU, by age group and sex**

<table>
<thead>
<tr>
<th>Age group (years)</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 - 44</td>
<td>33</td>
<td>17</td>
<td>50</td>
</tr>
<tr>
<td>45 - 64</td>
<td>194</td>
<td>92</td>
<td>286</td>
</tr>
<tr>
<td>65 - 74</td>
<td>112</td>
<td>30</td>
<td>142</td>
</tr>
<tr>
<td>75 - 84</td>
<td>28</td>
<td>5</td>
<td>33</td>
</tr>
<tr>
<td>85+</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td><strong>All Age groups</strong></td>
<td><strong>368</strong></td>
<td><strong>144</strong></td>
<td><strong>512</strong></td>
</tr>
</tbody>
</table>

01 Mar 2020 to 31 May 2020.
Anyone aged <15 has been excluded from this analysis.

Figure 8a shows the 65-74 age group had the highest rate of admission into ICU and more males than females had been admitted to ICU for treatment, accounting for 72% of patients. The age distribution for COVID-19 ICU population is not dissimilar to the age distribution seen in other countries. Critically ill older patients may also receive less invasive life support treatments and these will often be delivered outwith ICUs.

A report by the Scottish Intensive Care Audit Group (SICSAG) has been published on the Public Health Scotland website. This report will provide a more detailed analysis of patients being treated in intensive care units.

*In the first report published (6th May), counts shown included any patient who had contact with ICU since 1st March 2020 and had a positive COVID-19 test at any time. This definition was adjusted to reflect reports from SICSAG to only include patients with a positive COVID-19 test at any time.*
19 specimen date prior to discharge from an intensive care unit. Therefore, current data are only comparable to figures previously reported by PHS since 13th May 2020.

**Figure 8a: Patients in ICU: rate per 100,000 population by age group and sex as at 31 May 2020**

01 Mar 2020 to 31 May 2020.
Anyone aged <15 has been excluded from this analysis.

Figure 8b shows the daily new COVID-19 admission to ICU plus a 7 day moving average. The peak of ICU activity was on 29th March with 29 new patients with confirmed COVID-19. As at 31 May 2020, the average number of patients admitted over the previous seven days was less than 1 patient per day.
Figure 8b: Number of New COVID-19 Patients Admitted to ICUs, 11th March to 09:00 31 May 2020 2020 (n=512)

Please note:

Counts include any patient with a confirmed positive COVID-19 test (confirmed by linkage to ECOSS) taken prior to discharge from an ICU in Scotland. Counts do not include any COVID-19 suspected cases who have not yet been lab confirmed. Therefore there may be a lag for recent days where patients may still be awaiting the results of COVID-19 tests.

Counts do not include any re-admissions from COVID-19 patients previously admitted to an ICU and re-admitted post discharge; counts are unique patients only.

Individual patients are identified using their CHI number as recorded within the ICU admissions system. There may be a very small number of patients where CHI was not recorded, for whom linkage to ECOSS for COVID-19 status may not have been possible.

Data are correct as at the time of data extract at 9am on Sunday 31 May 2020. Data are reviewed and validated on a continuous basis and so may be subject to change.
COVID-19 Activity in the Community

Before the COVID-19 outbreak, when GP Practices and Dentists are open during the day, NHS 24’s 111 service generally only advises self-care or for people to contact their GP, unless it is immediately life threatening, in which case they contact a 999 Ambulance. When GP Practices and Dentists are closed, NHS 24 can also direct people to Emergency Departments, Minor Injuries Units and Primary Care Out of Hours services for further clinical input, which could involve a Nurse or GP telephoning or visiting the person at home, or arranging attendance at a Primary Care Emergency Centre.

In response to COVID-19, NHS 24 adapted their service provision. People who are concerned about COVID-19, or who experience symptoms, are advised to seek advice from NHS Inform website, the COVID-19 advice helpline or to contact NHS 24’s 111 service if their symptoms worsen and they need clinical advice, following which they may be:

- provided with self care advice or be asked to contact their own GP
- referred to a COVID-19 community hub for further clinical telephone triage, they may then be asked to attend assessment centre or receive a home visit by a Nurse or Doctor
- referred to acute services via the Scottish Ambulance Service or advised to attend hospital, depending on their symptoms.
COVID-19 Contacts with NHS 24 111 and COVID-19 Advice Helpline

Figure 9 shows the trends in contacts with the 111 service where COVID-19 has been recorded as the reason for a person contacting the service, and also the number of calls to the dedicated COVID-19 advice helpline (this COVID-19 advice helpline information is published daily by the Scottish Government).

There are three distinct peaks in calls to the helpline: one when it first opened (at a similar time as the announcement that schools were to close), one the following week when lockdown was announced and finally a smaller peak at the end of March. Since then calls have been steadily falling, with lower demand at the weekend relating to COVID-19 and higher demand at the weekend for other concerns.

COVID-19 contacts with the 111 service saw a sharp increase prior to the opening of the COVID-19 helpline. From the 23 March 2020, the 111 service now directs people with COVID-19 symptoms to the COVID-19 community hubs for further triage. Contacts to NHS 24 (Monday to Friday 8am – 6pm) which are non COVID-19 related are now referred directly to the patient's GP. From the 28 March to the 9 April there were over 2,000 COVID-19 daily contacts with the 111 service, which have since reduced to around 600 per day.

**Figure 9: Number of NHS 24 111 COVID-19 Contacts and COVID-19 Advice Helpline calls**

Figure 10 shows the rate per 100,000 population of NHS 24 calls related to COVID-19. The under 5 years age group had a rate of contact noticeably higher than the other age groups.
Figure 10: Rates of NHS 24 111 COVID-19 contacts, by age group
NHS 24 111 COVID-19 contacts by deprivation category

The level of COVID-19 calls to NHS 24 111 service by deprivation category is shown in Figure 11. There is a strong association between contacting NHS 24 and deprivation. More than one in four (28%) people who contacted this service were living in the most deprived areas in Scotland. Figure 11 shows that contacts with the 111 service were twice as likely to have been made by those living in the most deprived areas.

Figure 11: Number of NHS 24 111 COVID-19 contacts, by deprivation category
COVID-19 Community Hub and Assessment Centres

People may have multiple consultations with a COVID-19 Community Hub and Assessment Centre depending on their pathway of care. For example, upon referral by NHS 24 (or other services) they will be clinically triaged over the telephone by the community hub and they may then go on to have a consultation in person at an assessment centre; this would result in one person having two consultations.

Between the 23 March and 31 May 2020 67,092 people had a total of 80,508 consultations with COVID-19 Community Hubs and Assessment Centres. (*NHS Grampian data included from 01 May 2020 onwards*)

- Overall COVID-19 related activity was highest on the 7 April with 1,840 consultations
- 85% of all consultations were advice calls.
- 59% of all consultations were with females.
- 28% of all consultations were with people living in the most deprived areas in Scotland.
COVID-19 Community Hub and Assessment Centre, Consultations by Type

Figure 12 shows COVID-19 activity by day of the week broken down by consultation type. A person may contact the Community Hub for advice and then may be asked to come to the Assessment Centre or have a home visit. The number of consultations peaked on 7 April with around 1,800 across all types of consultations. Over the past week there have been around 600 consultations per day.

Figure 12: Daily COVID-19 COVID Hubs and Assessment Centre Consultations

Please note
NHS Grampian data included from 01 May 2020.
Due to a system issue, some NHS Lanarkshire data is missing for 30/05/20.
COVID-19 Community Hubs and Assessment Centres, Individuals by Age Group

Figure 13 shows the number of people per 100,000 population accessing COVID-19 Community Hubs and Assessment Centres. The age groups with the highest rate of contact were those under 5 years of age and those aged 85 years and over. This pattern mirrors pre COVID-19 contacts with urgent care services, with the highest rates of access in the youngest and oldest age groups.

**Figure 13: Number of individuals contacting COVID-19 Hubs and Assessment Centres per 100,000 population, by age group**

Please note
NHS Grampian data included from 01 May 2020.
Due to a system issue, some NHS Lanarkshire data is missing for 30/05/20.
COVID-19 Community Hub and Assessment Centre, by Deprivation category

Figure 14 shows that contact with the Community Hubs and Assessment Centres were more than twice as likely to have been made by people living in the most deprived areas.

Figure 14: COVID-19 Community Hubs and Assessment centres, by deprivation category

Please note
NHS Grampian data included from 01 May 2020.
Due to a system issue, some NHS Lanarkshire data is missing for 30/05/20.
COVID-19 Contacts with Scottish Ambulance Service

When someone telephones 999 and requests an ambulance, the Scottish Ambulance Service (SAS) record this as an incident. In some cases multiple phone calls can be received for one incident.

The total number of incidents includes

- redirecting and referring suitable people to alternative pathways, following telephone triage and advanced triage through a SAS practitioner.
- attended incidents, where a SAS resource (e.g. ambulance, paramedic in a car, specialist paramedic) has arrived at the scene of the incident. Some incidents may be attended by more than one resource.

Following assessment and treatment by SAS crews some patients do not require to be taken to hospital. These patients can be safely left at home with follow up provided by other services including their own GP or GP OOH Services. It is in the patient’s best interest to get the care they require as close to their own home as is feasible.

Scottish Government provide daily provisional updates on the total number of incidents ambulances attend, how many were COVID-19 related and how many people were taken to hospital with suspected COVID-19.

Figure 15 below provides trends of this information, sourced from SAS, from 22 January 2020 to 31 May 2020. It can be seen that pre COVID-19 generally SAS attended around 1,800 incidents each day. However, from the middle of March this has reduced to between 1,400 and 1,600, this reflects the pattern seen with other urgent and emergency care services.

**Figure 15: Number of all Attended SAS incidents**
Figure 16 shows the number of incidents which are suspected COVID-19. 6 April saw the peak incidents for SAS with 56% of the incidents attended resulting in people being conveyed to hospital.

**Figure 16: Number of SAS suspected COVID-19 incidents by type**

The following information is sourced from the [Unscheduled Care Datamart](#) which allows for additional information to be provided as it can be analysed at patient level.

**COVID-19 related incidents attended by an Ambulance, by age**

Figure 17 shows the rate per 100,000 population of suspected COVID-19 related incidents attended by an ambulance, by age group. It can be seen that the older a person is the more likely they are to be in contact with the ambulance service.

**Figure 17: Rates of COVID-19 related incidents attended by an ambulance, by age group**
COVID-19 related incidents attended by an Ambulance, by deprivation category

The level of suspected COVID-19 related incidents attended by an Ambulance is shown by deprivation category in Figure 18. Those living in the most deprived areas are three times as likely to have an incident attended by an ambulance as those in the least deprived area.

Figure 18: Number of COVID-19 related incidents attended, by deprivation category
Wider Impact of COVID-19

The COVID-19 pandemic has direct impacts on health as a result of illness, hospitalisations and deaths due to COVID-19. However, the pandemic also has wider impacts on health and on health inequalities. Reasons for this may include:

• Individuals being reluctant to use health services because they do not want to burden the NHS or are anxious about the risk of infection.
• The health service delaying preventative and non-urgent care such as some screening services and planned surgery.
• Other indirect effects of interventions to control COVID-19, such as mental or physical consequences of distancing measures.

The surveillance workstream of the social and systems recovery cell aims to provide information and intelligence on the wider impacts of COVID-19 on health, healthcare and health inequalities that are not directly due to COVID-19.

Many of the existing sources that would be most suitable for this work are not sufficiently timely in terms of reporting delays, so the work has made use of the following data sources:

• RAPID dataset (Rapid And Preliminary Inpatient Data)
• A&E attendances
• NHS 24 completed contacts
• Out of hours consultations
• Scottish Ambulance Service data
• Child Immunisation

These analyses are based on a selected range of data sources that are available to describe changes in health service use in Scotland during the COVID-19 pandemic. More detailed information is available at NHS Board and Health and Social Care Partnership (HSCP) level.
Accident & Emergency attendances

Across Scotland, A&E services would normally see around 25,000 attendances per week. However, following the introduction of lockdown measures on the 18 March, weekly attendances saw a rapid decrease of 56% to around 11,000 (Figure 19). The number of attendances is slowly starting to increase, with attendances for the week ending 24 May 2020 at just over 17,500 (17,631). The pattern of change was similar by age, sex and deprivation, as shown in the supporting online tool.

This overall reduction has a number of possible causes, such as fewer traffic and workplace related injuries or reluctance to use A&E services during the lockdown period.

Figure 19: Weekly A&E attendances across NHS Scotland
All Admissions to Hospital

Data on hospital admissions normally comes from the SMR01 dataset, which is the official source for published data on hospital admissions. However, there is a time lag in these data being submitted and therefore cannot be used to monitor the impact of COVID-19 at this time. The data below use the RAPID dataset (Rapid And Preliminary Inpatient Data), a more limited but up to date management information flow which provides broadly comparable figures on numbers of admissions. Figure 20 shows the trend in the number of admissions to hospital at a Scotland level, based on the RAPID data. For comparison, the figure also shows average numbers of admissions over the two previous years.

Hospital admissions fell sharply from the second week of March, reaching levels nearly 50% below those expected on the basis of admissions during 2018-19. There has been some recovery since late April, but numbers of admissions remain around 35% below the 2018-19 average. The supporting online tool shows that similar patterns are seen by sex and by deprivation, but that falls were larger for children under 14 years and smaller for those aged 85 years and over. There were larger relative falls for surgical than medical specialties. There were much larger falls in planned admissions (around 65%) than in emergency admissions (around 40%). There were particularly large falls (around 60%) for emergency paediatric admissions. The pattern was broadly similar across NHS Boards; the low level of recorded admissions in NHS Forth Valley is likely to be due to data quality problems.

Figure 20: All hospital admissions across Scotland, compared with the average over the previous two years (Source: RAPID dataset)
Completed Contacts with NHS 24 111 service

Figure 21 shows completed contacts with NHS 24. The supporting online tool shows that NHS 24 111 completed contacts rose substantially for working age adults, but fell to around 50% of previous levels for children under 15 years of age, with little sign of recovery to previous levels. It is important to note that while these figures include some contacts related to COVID-19, they do not include additional services set up to respond directly to COVID-19. The figures also do not include daytime calls referred back to general practice. Compared to previous years, percentage falls in completed contacts were smaller among those living in more deprived areas.

The data used in this chart are taken from the Unscheduled Care Datamart. As mentioned in the report above, NHS 24 made changes to their service delivery to respond to COVID-19. The data from March 2020 does not reflect the full extent of the demand and activity being undertaken by NHS 24 at this time. Over the coming weeks PHS and NHS 24 are working to further enhance the data and intelligence that can be shown in this publication.

Figure 21: Number of completed contacts to NHS 24 111 Service, compared with 2018-19 average
Primary Care Out of Hours service

Figure 22 shows the OOH activity mirrored the previous two-year average until Monday 23 March when the COVID-19 community hubs and assessment centres opened. The supporting online tool shows that there were large percentage falls (around 55% overall) in consultations in out of hours services, especially for children, where the fall was around 70%. People in the out of hours period with COVID-19 symptoms would not attend an out of hours service but be directed towards a COVID-19 community hub and assessment centre. This helps to explain the reduction compared with the previous two year average.

**Figure 22: Number of cases with Primary Care OOH services compared with previous years**
Scottish Ambulance Service

Figure 23 shows the number of incidents attended by the Scottish Ambulance Service this year with the previous two-year average up to 24 May 2020. When lockdown started the number of incident attended reduced. The supporting online tool shows that the reduction was around 15% overall, though the fall was much larger for children (around 50%). This is reflective of demand and activity in other urgent and emergency cares services.

Figure 23: Number of incidents attended by Scottish Ambulance Service this year, compared with average of previous two years
Routine Childhood Immunisation Programme

Information on the uptake of immunisations that are routinely offered to all preschool children has been included within this report for the first time on 3 June 2020. Immunisation protects children against many serious infectious diseases including diphtheria, whooping cough, and measles. Immunisation services throughout Scotland are continuing during the Covid-19 pandemic. It is important to maintain the best possible immunisation uptake rates to ensure children remain protected and to prevent a resurgence of these infections. Including information on childhood immunisation rates in this tool will help us to ensure that rates remain high throughout the pandemic.

On 3 June 2020, information has been provided on the uptake of the first dose of the 6-in-1 vaccine, which is offered to children at 8 weeks of age. The vaccine protects against diphtheria, tetanus, pertussis (whooping cough), polio, Haemophilus influenzae type b (Hib) and Hepatitis B. Children should also receive a second dose of the vaccine at 12 weeks and a third dose at 16 weeks.

Table 4 shows uptake rates for this immunisation have remained high during the pandemic. Uptake continues to exceed 90% among children who were due their first dose of the 6-in-1 vaccine in March and early April. The recording of data on immunisations given by the reporting date will not be fully complete at this stage, particularly for the most recent cohorts, so uptake rates are slightly under-reported. In addition, some children will receive the vaccine at a later age, for example due to missed or rescheduled appointments, so uptake rates are expected to continue to increase as children age (as shown in the 2019 data provided for comparison).

Table 4: Uptake by 12 weeks of age of the first dose of 6-in-1 vaccine (offered to children at 8 weeks of age): Scotland

<table>
<thead>
<tr>
<th>Year</th>
<th>Month</th>
<th>Week beginning</th>
<th>Children turning 8 weeks in:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>Jan-2020</td>
<td>02-Mar-20</td>
<td>93.9%</td>
</tr>
<tr>
<td></td>
<td>Feb-2020</td>
<td>09-Mar-20</td>
<td>94.7%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16-Mar-20</td>
<td>94.5%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>23-Mar-20</td>
<td>92.4%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30-Mar-20</td>
<td>92.8%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>06-Apr-20</td>
<td>91.1%</td>
</tr>
</tbody>
</table>

Children recorded as receiving their vaccine by 12 weeks of age
Wider impacts summary

These analyses are based on a selected range of data sources that are available to describe changes in health service use in Scotland during the COVID-19 pandemic. Hospital admissions, attendances at A&E departments and consultations with out of hours services all fell to around half the average levels seen 2018-19 and have since recovered only modestly. There was a smaller fall in attended ambulance incidents and no appreciable change in overall NHS 24 111 completed contacts (excluding the additional services previously noted). These falls are likely to reflect a range of factors, including public anxiety about using NHS services, changes in the delivery of NHS services in response to rising numbers of COVID-19 hospital admissions and actions to defer planned activity in order to be prepared for expected COVID-19 related demand. The changes preceded by around a week the introduction of social distancing measures. The impact was particularly large for children under 14 years, with larger percentage falls in hospital admissions, NHS 24 111 completed contacts, out of hours consultations and ambulance incidents. As expected, the falls in hospital admissions were larger for planned than for emergency admissions and larger for surgical than medical admissions. There was little evidence from these data sources that social inequalities in the use of these services increased during this period. Uptake of the first dose of the 6-in-1 vaccine has so far remained high. More detailed information is available at NHS Board and Health and Social Care Partnership (HSCP) level.
Contact
Public Health Scotland
phs.statsgov@nhs.net

Further Information
COVID surveillance in Scotland
Scottish Government
Daily Dashboard by Public Health Scotland National Records of Scotland

UK and international COVID reports
Public health England
European Centre for Disease Prevention and Control
WHO
International Severe Acute Respiratory Emerging Infection Consortium.

The next release of this publication will be 10 June 2020.

Open data
Data from this publication is available to download from the Scottish Health and Social Care Open Data Portal.

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Appendices

Appendix 1 – Background information

In late December 2019, the People’s Republic of China reported an outbreak of pneumonia due to unknown cause in Wuhan City, Hubei Province.

In early January 2020, the cause of the outbreak was identified as a new coronavirus. While early cases were likely infected by an animal source in a ‘wet market’ in Wuhan, ongoing human-to-human transmission is now occurring.

There are a number of coronaviruses that are transmitted from human-to-human which are not of public health concern. However, COVID-19 can cause respiratory illness of varying severity. Currently, there is no vaccine and no specific treatment for infection with the virus.

On the 30 January 2020 the World Health Organization declared that the outbreak constitutes a Public Health Emergency of International Concern.

Extensive measures have been implemented across many countries to slow the spread of COVID-19. In the UK the current recommendations are for everyone to stay at home as much as possible and severely restrict their interactions with others outside the household.

Further information for the public on COVID-19 can be found on NHS Inform.
Appendix 2 – PHS and Official Statistics

About Public Health Scotland (PHS)

PHS is a knowledge-based and intelligence driven organisation with a critical reliance on data and information to enable it to be an independent voice for the public’s health, leading collaboratively and effectively across the Scottish public health system, accountable at local and national levels, and providing leadership and focus for achieving better health and wellbeing outcomes for the population. Our statistics comply with the Code of Practice for Statistics in terms of trustworthiness, high quality and public value. This also means that we keep data secure at all stages, through collection, processing, analysis and output production, and adhere to the ‘five safes’.