

**Healthcare Associated Infection (HAI)  
Bimonthly Report – July 2019**

The following HAIRT report contains NHS Grampian’s surveillance data and associated infection rates as reported in Health Protection Scotland’s (HPS) Quarterly Epidemiological Data for Quarter 1 (January to March 2019) published on 2<sup>nd</sup> July 2019.

**HAI Summary - Quarter Ending March 2019**

***Clostridioides difficile* infection (CDI)**

The total number of CDI cases in patients reported to HPS was 25 – 10.6% of the total across Scotland and up slightly from 23 in the previous quarter.

16 CDI cases were reported to HPS as healthcare associated. This corresponded to an incidence rate of 12.1 cases per 100,000 total occupied bed days (TOBDs) which was higher than the Scotland wide rate of 11.8 per 100,000 TOBDs.

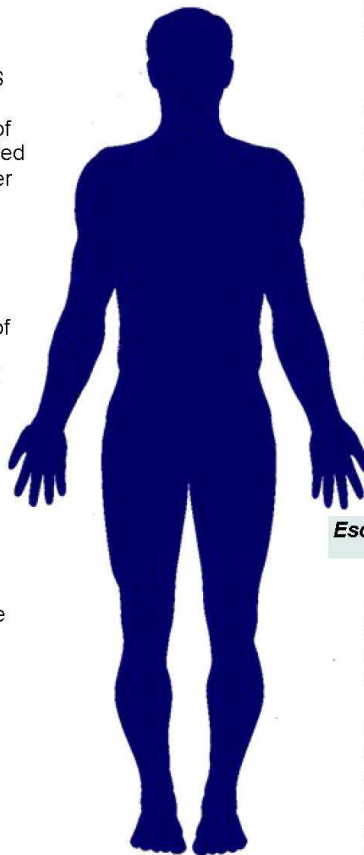
Nine CDI cases were reported as community associated. This corresponded to an incidence rate of 6.2 cases per 100,000 population, which was higher than the Scotland wide rate of 4.0 cases per 100,000 population.

***Staphylococcus aureus* bacteraemia (SAB)**

The total number of SAB cases in patients reported to HPS was 29 – 7.6% of the total across Scotland and a decrease of 25% from the previous quarter.

19 SAB cases were reported to HPS as healthcare associated. This corresponded to an incidence rate of 14.4 cases per 100,000 TOBDs. The Scotland wide rate was higher at 15.6 cases per 100,000 TOBDs.

10 SAB cases were reported as community associated. This corresponds to an incidence rate of 6.9 cases per 100,000 population, below the Scotland wide rate of 10.7 cases per 100,000 population.



**Surgical Site Infection (SSI)**

Nine cases (2.0%) of SSI following caesarean section procedures were reported to HPS, detected either during inpatient stay or by PDS to day 10. Across Scotland the proportion was 1.6%.

No cases of SSI following hip arthroplasty procedure were reported to HPS, detected either during inpatient stay or on readmission to day 30. Across Scotland the proportion was 0.4%.

***Escherichia coli* bacteraemia (ECB)**

The total number of ECB cases in patients reported to HPS was 112 – 9.6% of the total across Scotland and an increase of 12% from the previous quarter.

56 ECB cases were reported to HPS as healthcare associated. This corresponded to an incidence rate 42.3 cases per 100,000 TOBDs which was above the Scotland wide rate of 37.3 cases per 100,000 TOBDs.

56 ECB cases were reported as community associated. This corresponded to an incidence rate of 38.9 cases per 100,000 population, which was below the Scotland wide rate of 44.6 per 100,000 population.

## **Additional Surveillance not reported in Health Protection Scotland's Quarterly Epidemiological report:**

### **Methicillin-Resistant *Staphylococcus Aureus* (MRSA) Screening**

MRSA (CRA) screening compliance for Quarter 4 (January – March 2019) was 87% which is below the compliance target of 90% but above the national average (83%).

### **Carbapenemase Producing Enterobacteriaceae (CPE) Screening**

CPE (CRA) screening compliance for Quarter 4 (January – March 2019) was 97% which is above both the compliance target (90%) and the national average (81%).

### **Norovirus**

For the period April – June 2019 there were 4 wards closed (either completely or partially) in NHS Grampian due to enteric illness (confirmed or suspected Norovirus).

### **Health Facilities Scotland (HFS)**

The cleaning compliance for April – June 2019 was 93% and the estates monitoring compliance was 94%; both these scores are above the national targets of 90%.

## **1. Actions Recommended**

The Board is requested to note the content of this summary bimonthly HAI Report, as directed by the HAI Policy Unit, Scottish Government Health Directorates.

## **2. Strategic Context**

- National Hospital Antimicrobial Prescribing Quality Indicators for 2017-18
- Local Delivery Plan Standards for CDIs & SABs awaited from Scottish Government
- National Key Performance Indicators for MRSA screening
- National Key Performance Indicators for CPE screening
- National Health Facilities Scotland (HFS) Environmental Cleaning Target
- National Health Facilities Scotland (HFS) Estates Monitoring Target
- National Hand Hygiene Compliance Target

### 3. Key matters relevant to recommendation

| Issue                           | Group                           | Target   | Period & source      | NHS Scot | NHS G | RAG*  |
|---------------------------------|---------------------------------|--|----------------------|----------|-------|-------|
| CDIs                            | Healthcare Associated Infection | To be confirmed by Scottish Government             | Jan – Mar 2019, HPS  | 11.8     | 12.1  | Amber |
|                                 | Community Associated Infection  |  |                      | 4.0      | 6.2   | Amber |
| <i>E coli</i> Bacteraemia       | Healthcare Associated Infection | No target (rate per 100,000 bed days)              | Jan – Mar 2019, HPS  | 37.3     | 42.3  | Amber |
|                                 | Community Associated Infection  | No target (annualised rate per 100,000 population) |                      | 44.6     | 38.9  | Green |
| SABs                            | Healthcare Associated Infection | To be confirmed by Scottish Government             | Jan – Mar 2019, HPS  | 15.6     | 14.4  | Green |
|                                 | Community Associated Infection  |  |                      | 10.7     | 6.9   | Green |
| Surgical Site Infections (SSIs) | Caesarean Section               |  | Jan – Mar 2019, HPS  | 1.6      | 2.0   | Amber |
|                                 | Hip Arthroplasty                |  | Jan – Mar 2019, HPS  | 0.4      | 0.0   | Green |
| MRSA (CRA) screening            |                                 | HPS 90%  | Jan – Mar 2019, HPS  | 83       | 87    | Amber |
| CPE (CRA) screening             |                                 | HPS 90%  | Jan – Mar 2019, HPS  | 81       | 97    | Green |
| Cleaning                        | All clinical areas              | HFS 90%  | Apr – Jun 2019, NHSG | N/A      | 93    | Green |
| Estates                         |                                 | HFS 90%  | Apr – Jun 2019, NHSG | N/A      | 94    | Green |
| Hand Hygiene                    | Nursing staff                   | SGHD 90%   | Apr – Jun 2019, NHSG | N/A      | 99    | Green |
|                                 | Medical staff                   | SGHD 90%   | Apr – Jun 2019, NHSG | N/A      | 96    | Green |
|                                 | Allied Health Professionals     | SGHD 90%   | Apr – Jun 2019, NHSG | N/A      | 98    | Green |
|                                 | Ancillary staff                 | SGHD 90%   | Apr – Jun 2019, NHSG | N/A      | 94    | Green |

#### \*RAG (Red / Amber / Green) Status

Above upper control limit = **Red**  
 Below National average = **Green**

Below upper control limit but above National average = **Amber**  
 Below lower control limit = **Green**

#### 4. Risk Mitigation

By noting the contents of this report, the Board will fulfil its requirement to seek assurance that appropriate surveillance of healthcare associated infection is taking place and that this surveillance is having a positive impact on reducing the risk of avoidable harm to the patients of NHS Grampian.

#### 5. Responsible Executive Director and contact for further information

If you require any further information in advance of the Board meeting please contact:

##### **Responsible Executive Director**

Caroline Hiscox  
Acting Director of Nursing, Midwifery and  
Allied Health Professions (NMAHP)  
[carolinehiscox@nhs.net](mailto:carolinehiscox@nhs.net)

##### **Contact for further information**

Grace McKerron  
Infection Prevention and Control Manager  
[grace.mckerron@nhs.net](mailto:grace.mckerron@nhs.net)

*The information on this page has been provided by the Antimicrobial Pharmacy Team*

### **National Quality Indicators for Antimicrobial Prescribing**

The national indicators have been agreed by the Scottish Antimicrobial Prescribing Group (SAPG) but have not yet been finalised by the Scottish Government. We anticipate the new indicators to be as detailed below.

**1. Use of WHO Access antibiotics (NHSE list)  $\geq$ 60% of total antibiotic use in Acute hospitals by 2021**

*Local report not yet available.*

**2. Use of intravenous antibiotics in secondary care defined as DDD/1000population/day will be no higher in 2021 than it was in 2018**

Recent figures produced by SAPG show NHS Grampian has seen only a small increase in IV antibiotic use in the last 2 years so with ongoing work around improving IV antibiotic review, it is hoped that NHS Grampian will meet this target over the next 3 years.

**3. A 10% reduction of antibiotic use in Primary Care (excluding dental) by 2021, using 2015/16 data as a baseline (items/1000/day)**

Work continues in primary care to reduce overall antibiotic use and overall usage continues to decrease. A specific report on this indicator should be available later in the year.

We anticipate data on the above indicators to be available via NSS Discovery in late summer 2019.

The audit data previously collected for the national prescribing indicators is no longer a requirement from SAPG. Henceforth the audit tool will be used for small tests of change e.g. weekly data collection in wards identified by the AMT where antibiotic review and/or duration requires improvement.

## ***Clostridioides (formerly Clostridium) difficile* Infection (CDI) Surveillance**

CDI is the most common cause of intestinal infections (and diarrhoea) associated with antimicrobial therapy. Clinical disease comprises a range of toxin mediated symptoms from mild diarrhoea, which can resolve without treatment, to severe cases such as pseudomembranous colitis, toxic megacolon and peritonitis that can lead to death<sup>1</sup>.

In Scotland mandatory surveillance of CDI commenced in October 2006, with enhanced surveillance commenced in 2009. Historically HPS reported CDI cases based on age ranges 15-64yrs and 65yrs and above but since October 2017 the definitions have changed to healthcare associated infection or community associated infection for all patients over the age of 15 years.

Each new case of CDI is discussed at a weekly multidisciplinary team meeting involving Infection Prevention and Control Doctor(s), Infection Prevention and Control Nurses and Surveillance Nurses. By close investigation of each case and typing of the organisms – when indicated – the Infection Prevention and Control Team is assured that there have not been any outbreaks of CDI.

Further information on CDI surveillance can be found at:

<https://www.hps.scot.nhs.uk/web-resources-container/protocol-for-the-scottish-surveillance-programme-for-clostridium-difficile-infection-user-manual/>

Please see below for abbreviations used in the following tables:

|     |                         |      |                               |
|-----|-------------------------|------|-------------------------------|
| AA  | Ayrshire & Arran        | HG   | Highland                      |
| BR  | Borders                 | LO   | Lothian                       |
| DG  | Dumfries & Galloway     | LN   | Lanarkshire                   |
| FF  | Fife                    | NWTC | National Waiting Times Centre |
| FV  | Forth Valley            | OR   | Orkney                        |
| GGC | Greater Glasgow & Clyde | SH   | Shetland                      |
| GR  | Grampian                | TY   | Tayside                       |
|     |                         | WI   | Western Isles                 |

**CDI cases and incidence rates (per 100,000 total occupied bed days) for healthcare associated infection cases**

**Q4 (October to December 2018) compared to Q1 (January to March 2019)**

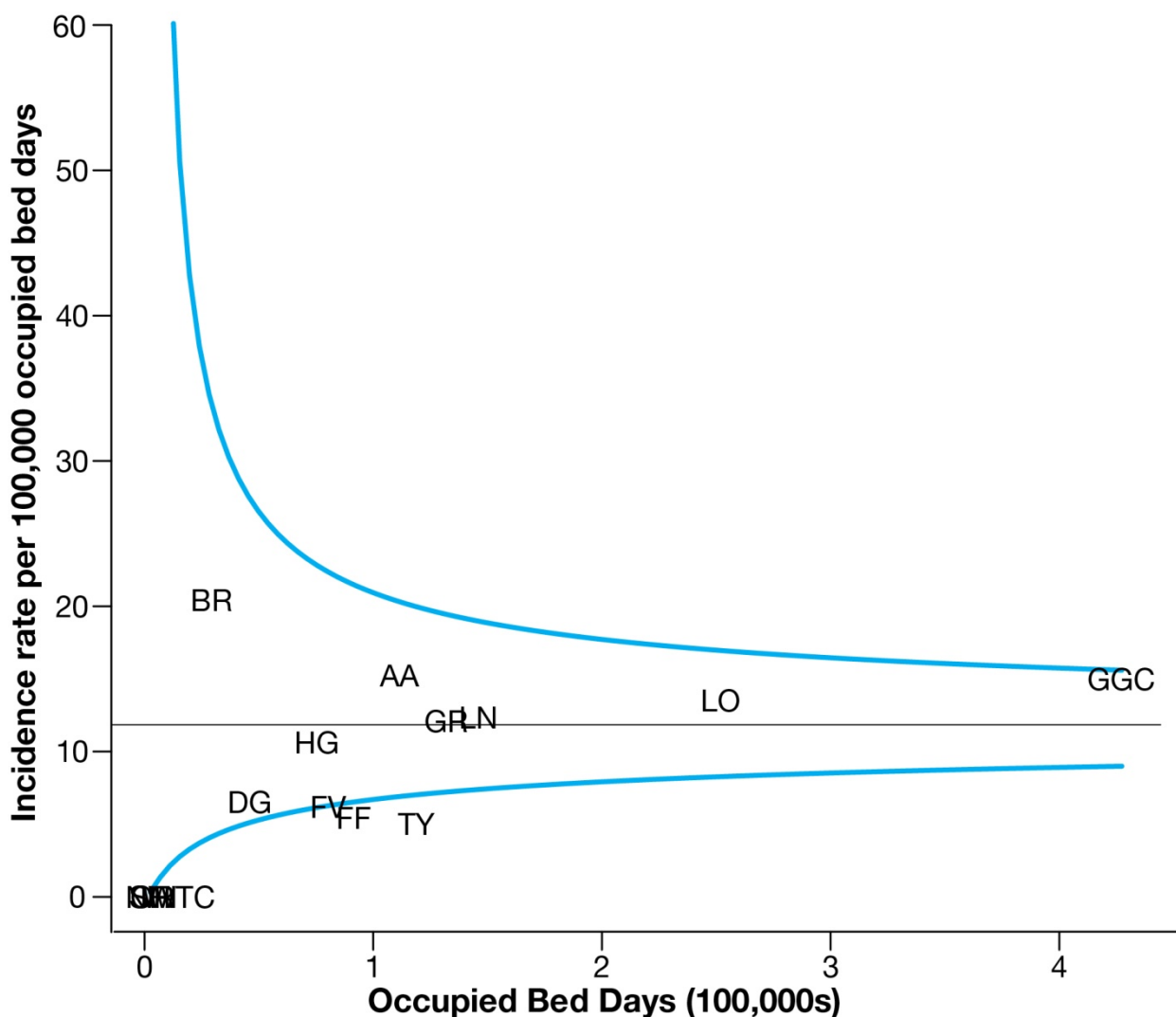
| <b>NHS Board</b> | <b>Q4 Cases</b> | <b>Q4 Bed Days</b> | <b>Q4 Rate</b> | <b>Q1 Cases</b> | <b>Q1 Bed Days</b> | <b>Q1 Rate</b> |
|------------------|-----------------|--------------------|----------------|-----------------|--------------------|----------------|
| AA               | 21              | 110,740            | 19.0           | 17              | 111,660            | 15.2           |
| BR               | 0               | 31,191             | 0.0            | 6               | 29,390             | 20.4           |
| DG               | 12              | 43,800             | 27.4           | 3               | 46,147             | 6.5            |
| FF               | 10              | 91,463             | 10.9           | 5               | 91,885             | 5.4            |
| FV               | 14              | 84,592             | 16.6           | 5               | 80,825             | 6.2            |
| <b>GR</b>        | <b>10</b>       | <b>131,734</b>     | <b>7.6</b>     | <b>16</b>       | <b>132,257</b>     | <b>12.1</b>    |
| GGC              | 67              | 417,273            | 16.1           | 64              | 427,318            | 15.0           |
| HG               | 11              | 72,346             | 15.2           | 8               | 75,357             | 10.6           |
| LN               | 25              | 142,634            | 17.5           | 18              | 145,876            | 12.3           |
| LO               | 36              | 254,499            | 14.1           | 34              | 251,904            | 13.5           |
| NWTC             | 0               | 11,765             | 0.0            | 0               | 11,654             | 0.0            |
| OR               | 1               | 3,843              | 26.0           | 0               | 3,829              | 0.0            |
| SH               | 0               | 2,501              | 0.0            | 0               | 2,511              | 0.0            |
| TY               | 9               | 115,115            | 7.8            | 6               | 119,250            | 5.0            |
| WI               | 1               | 6,753              | 14.8           | 0               | 6,871              | 0.0            |
| <b>Scotland</b>  | <b>217</b>      | <b>1,520,249</b>   | <b>14.3</b>    | <b>182</b>      | <b>1,536,734</b>   | <b>11.8</b>    |

- Source of data is Electronic Communication of Surveillance in Scotland (ECOSS) & Total occupied bed days: Information Services Division ISD(S)
- Figures include any updates received following the last publication



**Funnel plot of CDI incidence rates (per 100,000 total occupied bed days) in healthcare associated infection cases for all NHS Boards in Scotland**

**Q1 (January to March 2019)**



- Source of data is Electronic Communication of Surveillance in Scotland (ECOSS) & Total occupied bed days: Information Services Division ISD(S)1
- NHS National Waiting Times Centre, NHS Orkney, NHS Shetland and NHS Western Isles overlap as do NHS Grampian and NHS Lanarkshire

## CDI cases and incidence rates (per 100,000 population) for community associated infection cases

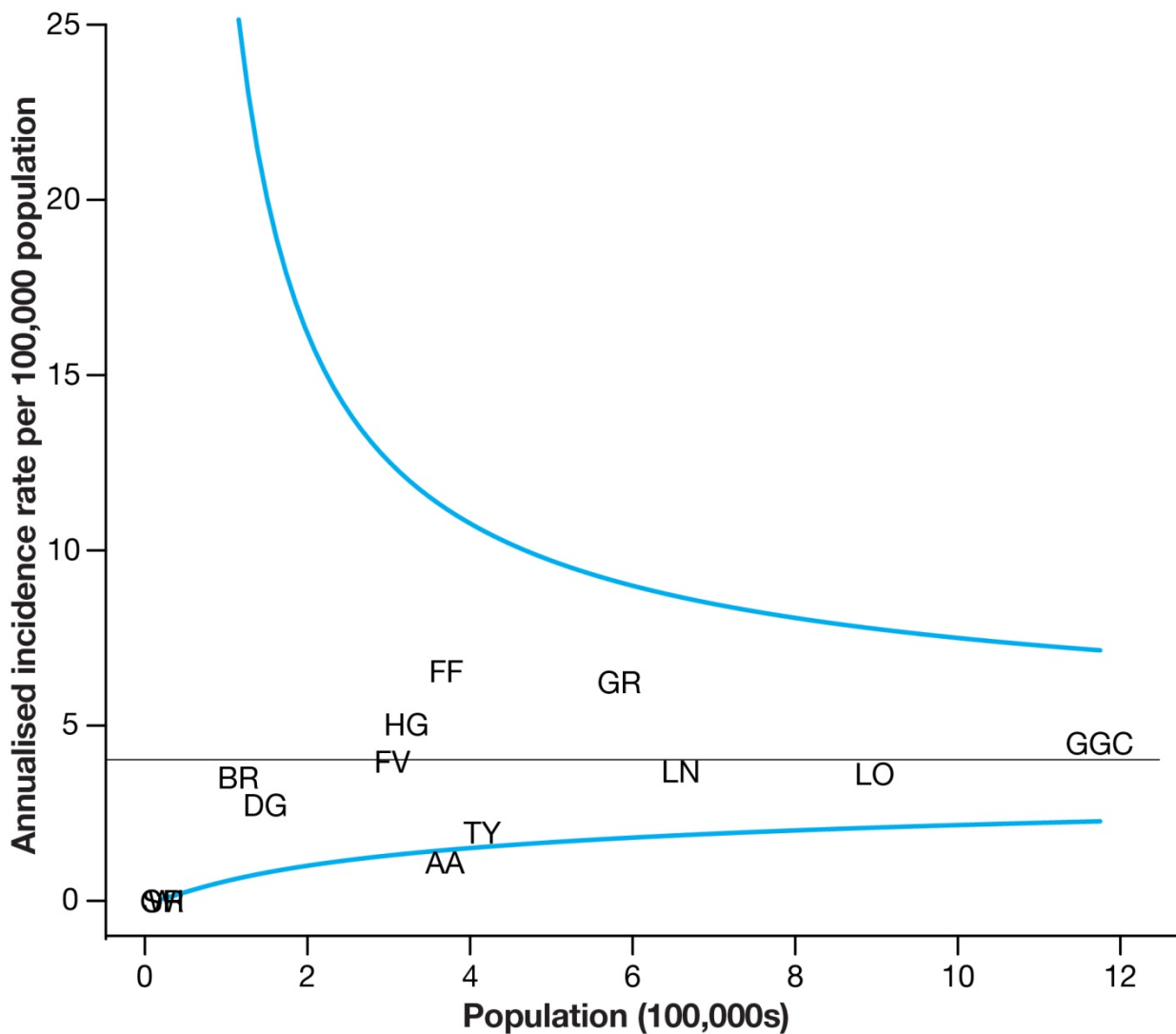
**Q4 (October to December 2018) compared to Q1 (January to March 2019)**

| NHS Board       | Q4 Cases  | Q4 Population    | Q4 Rate    | Q1Cases   | Q1Population     | Q1 Rate      |
|-----------------|-----------|------------------|------------|-----------|------------------|--------------|
| AA              | 5         | 369,670          | 5.4        | 1         | 369,670          | 1.1          |
| BR              | 1         | 115,270          | 3.4        | 1         | 115,270          | 3.5          |
| DG              | 0         | 148,790          | 0.0        | 1         | 148,790          | 2.7          |
| FF              | 8         | 371,910          | 8.5        | 6         | 371,910          | 6.5          |
| FV              | 3         | 306,070          | 3.9        | 3         | 306,070          | 4.0          |
| <b>GR</b>       | <b>13</b> | <b>584,550</b>   | <b>8.8</b> | <b>9</b>  | <b>584,550</b>   | <b>6.2</b>   |
| GGC             | 22        | 1,174,980        | 7.4        | 13        | 1,174,980        | 4.5          |
| HG              | 7         | 321,800          | 8.6        | 4         | 321,800          | 5.0          |
| LN              | 11        | 659,200          | 6.6        | 6         | 659,200          | 3.7          |
| LO              | 15        | 897,770          | 6.6        | 8         | 897,770          | 3.6          |
| OR              | 1         | 22,190           | 17.9       | 0         | 22,190           | 0.0          |
| SH              | 0         | 22,990           | 0.0        | 0         | 22,990           | 0.0          |
| TY              | 3         | 416,080          | 2.9        | 2         | 416,080          | 1.9          |
| WI              | 0         | 26,830           | 0.0        | 0         | 26,830           | 0.0          |
| <b>Scotland</b> | <b>89</b> | <b>5,438,100</b> | <b>6.5</b> | <b>54</b> | <b>5,438,100</b> | <b>4.0 ↓</b> |

- An arrow denotes statistically significant change
- Quarterly population rates are based on an annualised population
- Source of data is Electronic Communication of Surveillance in Scotland (ECOSS) & NRS mid-year population estimates
- Figures include any updates received following the last publication

**Funnel plot of CDI incidence rates (per 100,000 population) in community associated infection cases for all NHS Boards in Scotland**

**Q1 (January to March 2019)**



- Source of data is Electronic Communication of Surveillance in Scotland (ECOSS) & NRS mid-year population estimates
- NHS Orkney, NHS Shetland and NHS Western Isles overlap

## National *Escherichia coli* Bacteraemia Surveillance Programme

*Escherichia coli* (*E.coli*) is the most frequent cause of Gram-negative bacteraemia in Scotland and is a frequent cause of infection worldwide. *E.coli* bacteraemia (ECB) usually develops as a complication of other infections including urinary tract infection, surgery, and use of medical devices e.g. catheters. The number of patients with ECBs reported to HPS has increased continually since 2009<sup>2</sup>.

In Scotland, mandatory surveillance for this programme commenced in 2016.

The Healthcare Associated Infection (HAI) *E.coli* is measured as a rate per 100,000 total occupied bed days. However, community acquired infections are measured as a rate per 100,000 population.

Information on the national surveillance programme for *Escherichia coli* infection can be found at:

<https://www.hps.scot.nhs.uk/web-resources-container/quarterly-epidemiological-commentary-for-the-surveillance-of-healthcare-associated-infections-in-scotland-methods-caveats/>

**ECB cases and incidence rates (per 100,000 total occupied bed days) for healthcare associated infection cases**

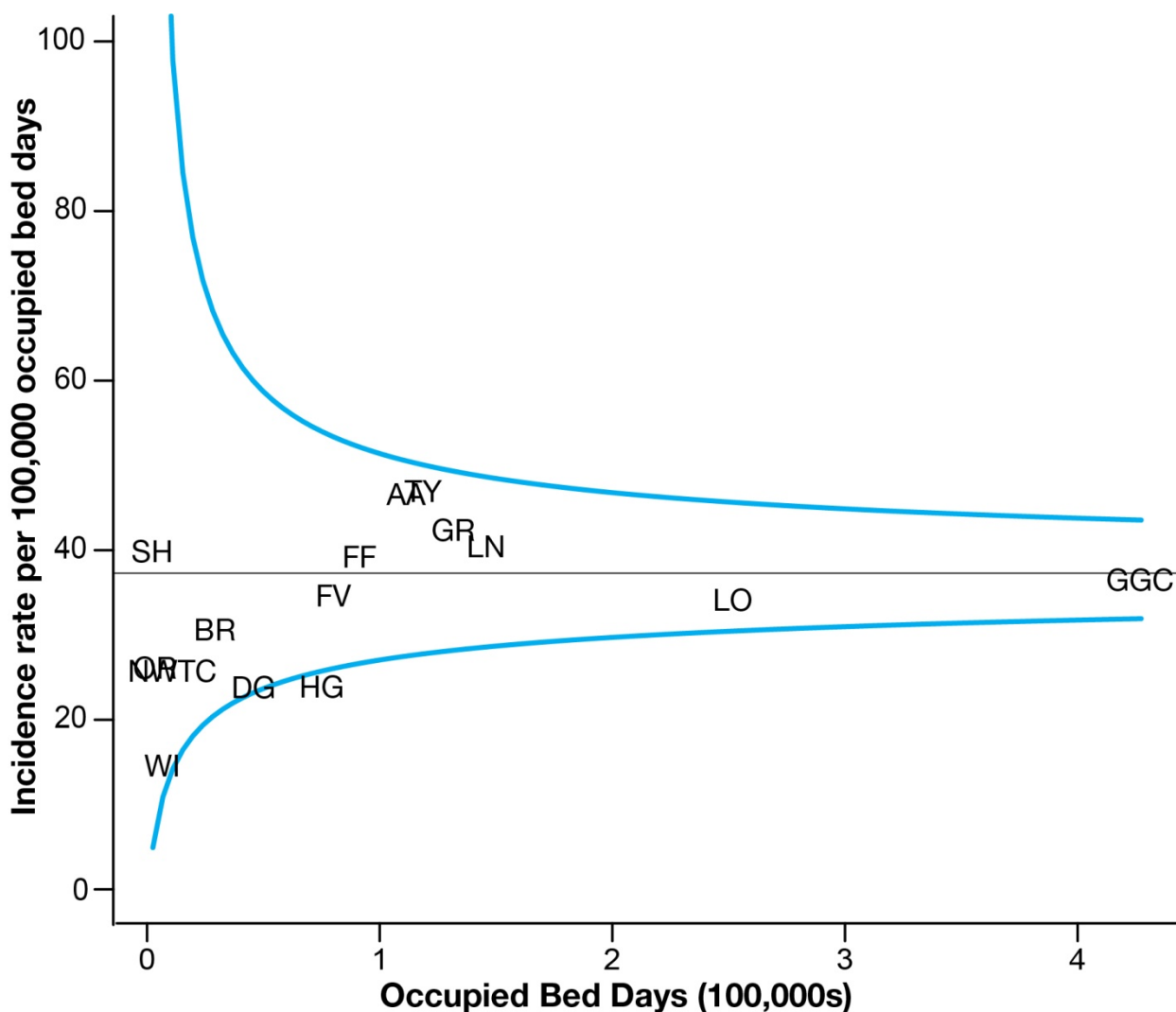
**Q4 (October to December 2018) compared to Q1 (January to March 2019)**

| <b>NHS Board</b> | <b>Q4 Cases</b> | <b>Q4 Bed Days</b> | <b>Q4 Rate</b> | <b>Q1 Cases</b> | <b>Q1 Bed Days</b> | <b>Q1Rate</b> |
|------------------|-----------------|--------------------|----------------|-----------------|--------------------|---------------|
| AA               | 40              | 110,740            | 36.1           | 52              | 111,660            | 46.6          |
| BR               | 11              | 31,191             | 35.3           | 9               | 29,390             | 30.6          |
| DG               | 15              | 43,800             | 34.2           | 11              | 46,147             | 23.8          |
| FF               | 45              | 91,463             | 49.2           | 36              | 91,885             | 39.2          |
| FV               | 29              | 84,592             | 34.3           | 28              | 80,825             | 34.6          |
| <b>GR</b>        | <b>49</b>       | <b>131,734</b>     | <b>37.2</b>    | <b>56</b>       | <b>132,257</b>     | <b>42.3</b>   |
| GGC              | 152             | 417,273            | 36.4           | 156             | 427,318            | 36.5          |
| HG               | 11              | 72,346             | 15.2           | 18              | 75,357             | 23.9          |
| LN               | 72              | 142,634            | 50.5           | 59              | 145,876            | 40.4          |
| LO               | 96              | 254,499            | 37.7           | 86              | 251,904            | 34.1          |
| NWTC             | 1               | 11,765             | 8.5            | 3               | 11,654             | 25.7          |
| OR               | 0               | 3,843              | 0.0            | 1               | 3,829              | 26.1          |
| SH               | 2               | 2,501              | 80.0           | 1               | 2,511              | 39.8          |
| TY               | 56              | 115,115            | 48.6           | 56              | 119,250            | 47.0          |
| WI               | 3               | 6,753              | 44.4           | 1               | 6,871              | 14.6          |
| <b>Scotland</b>  | <b>582</b>      | <b>1,520,249</b>   | <b>38.3</b>    | <b>573</b>      | <b>1,536,734</b>   | <b>37.3</b>   |

- Source of data is Electronic Communication of Surveillance in Scotland (ECOSS) & Total occupied bed days: Information Services Division ISD(S)
- Figures include any updates received following the last publication

**Funnel plot of ECB incidence rates (per 100,000 total occupied bed days) in healthcare associated infection cases for all NHS Boards in Scotland**

**Q1 (January to March 2019)**



- Source of data is Electronic Communication of Surveillance in Scotland (ECOSS) & Total occupied bed days: Information Services Division ISD(S)
- NHS Ayrshire & Arran and NHS Tayside overlap as do NHS National Waiting Time Centre and NHS Orkney

## ECB cases and incidence rates (per 100,000 population) for community associated infection cases

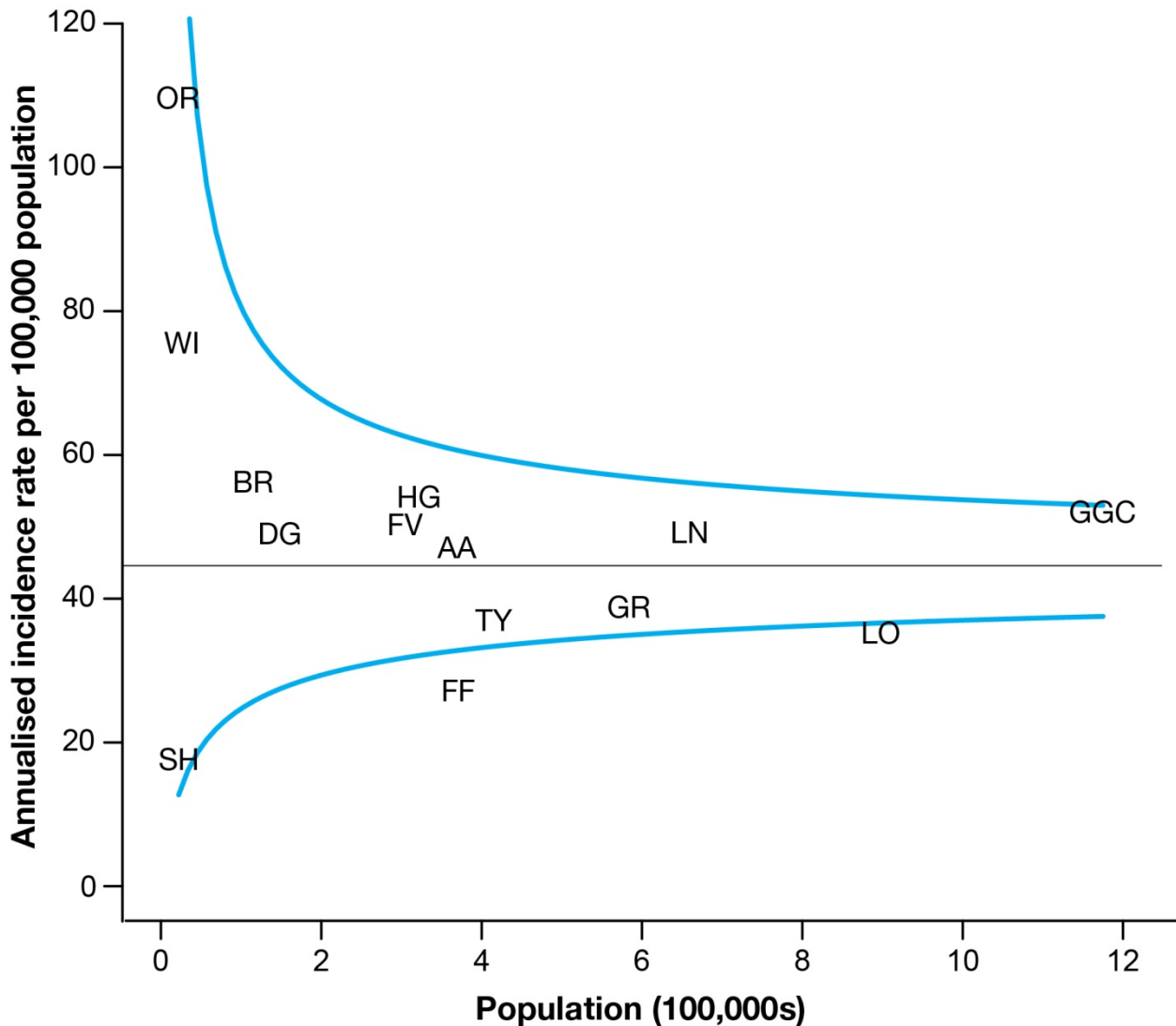
Q4 (October to December 2018) compared to Q1 (January to March 2019)

| NHS Board       | Q4 Cases   | Q4Population     | Q4 Rate     | Q1 Cases   | Q1 Population    | Q1Rate      |
|-----------------|------------|------------------|-------------|------------|------------------|-------------|
| AA              | 49         | 369,670          | 52.6        | 43         | 369,670          | 47.2        |
| BR              | 11         | 115,270          | 37.9        | 16         | 115,270          | 56.3        |
| DG              | 23         | 148,790          | 61.3        | 18         | 148,790          | 49.1        |
| FF              | 46         | 371,910          | 49.1        | 25         | 371,910          | 27.3        |
| FV              | 37         | 306,070          | 48.0        | 38         | 306,070          | 50.4        |
| <b>GR</b>       | <b>51</b>  | <b>584,550</b>   | <b>34.6</b> | <b>56</b>  | <b>584,550</b>   | <b>38.9</b> |
| GGC             | 150        | 1,174,980        | 50.6        | 151        | 1,174,980        | 52.1        |
| HG              | 26         | 321,800          | 32.1        | 43         | 321,800          | 54.2        |
| LN              | 88         | 659,200          | 53.0        | 80         | 659,200          | 49.2        |
| LO              | 71         | 897,770          | 31.4        | 78         | 897,770          | 35.2        |
| OR              | 3          | 22,190           | 53.6        | 6          | 22,190           | 109.7       |
| SH              | 1          | 22,990           | 17.3        | 1          | 22,990           | 17.6        |
| TY              | 42         | 416,080          | 40.0        | 38         | 416,080          | 37.0        |
| WI              | 5          | 26,830           | 73.9        | 5          | 26,830           | 75.6        |
| <b>Scotland</b> | <b>603</b> | <b>5,438,100</b> | <b>44.0</b> | <b>598</b> | <b>5,438,100</b> | <b>44.6</b> |

- Quarterly population rates are based on an annualised population
- Source of data is Electronic Communication of Surveillance in Scotland (ECOSS) & NRS mid-year population estimates
- Figures include any updates received following the last publication

**Funnel plot of ECB incidence rates (per 100,000 population) in community associated infection cases for all NHS Boards in Scotland**

**Q1 (January to March 2019)**



- Source of data is Electronic Communication of Surveillance in Scotland (ECOSS) & NRS mid-year population estimates



## Enhanced *Staphylococcus aureus* Bacteraemia (SAB) Surveillance

*Staphylococcus aureus* (*S. aureus*) is a Gram-positive bacterium which colonises the nasal cavity of about a quarter of the healthy population. This colonisation is usually harmless. However, infection can occur if *S. aureus* breaches the body's defence systems leading to illnesses from minor skin infections to serious systemic infections such as bacteraemia<sup>3</sup>.

In Scotland mandatory enhanced surveillance for *Staphylococcus aureus* bacteraemias (SABs) commenced in 2014.

As with *Clostridioides* (formerly *Clostridium*) *difficile*, enhanced SAB surveillance is carried out in all Health Boards using standardised data definitions. Each new case continues to be discussed at a weekly multidisciplinary team meeting involving Infection Prevention and Control Doctors, Infection Prevention and Control Nurses, Surveillance Nurses and an Infection Unit Nurse. The offer of attendance at speciality case review meetings from the Infection Prevention and Control Team is extended should further discussion be required.

Cases are defined as:

- Healthcare Associated
- Community Associated

More information on the national surveillance programme for *Staphylococcus aureus* bacteraemias can be found at:

<https://www.hps.scot.nhs.uk/web-resources-container/protocol-for-enhanced-staphylococcus-aureus-bacteraemia-surveillance/>

**SAB cases and incidence rates (per 100,000 total occupied bed days) for healthcare associated infection cases**

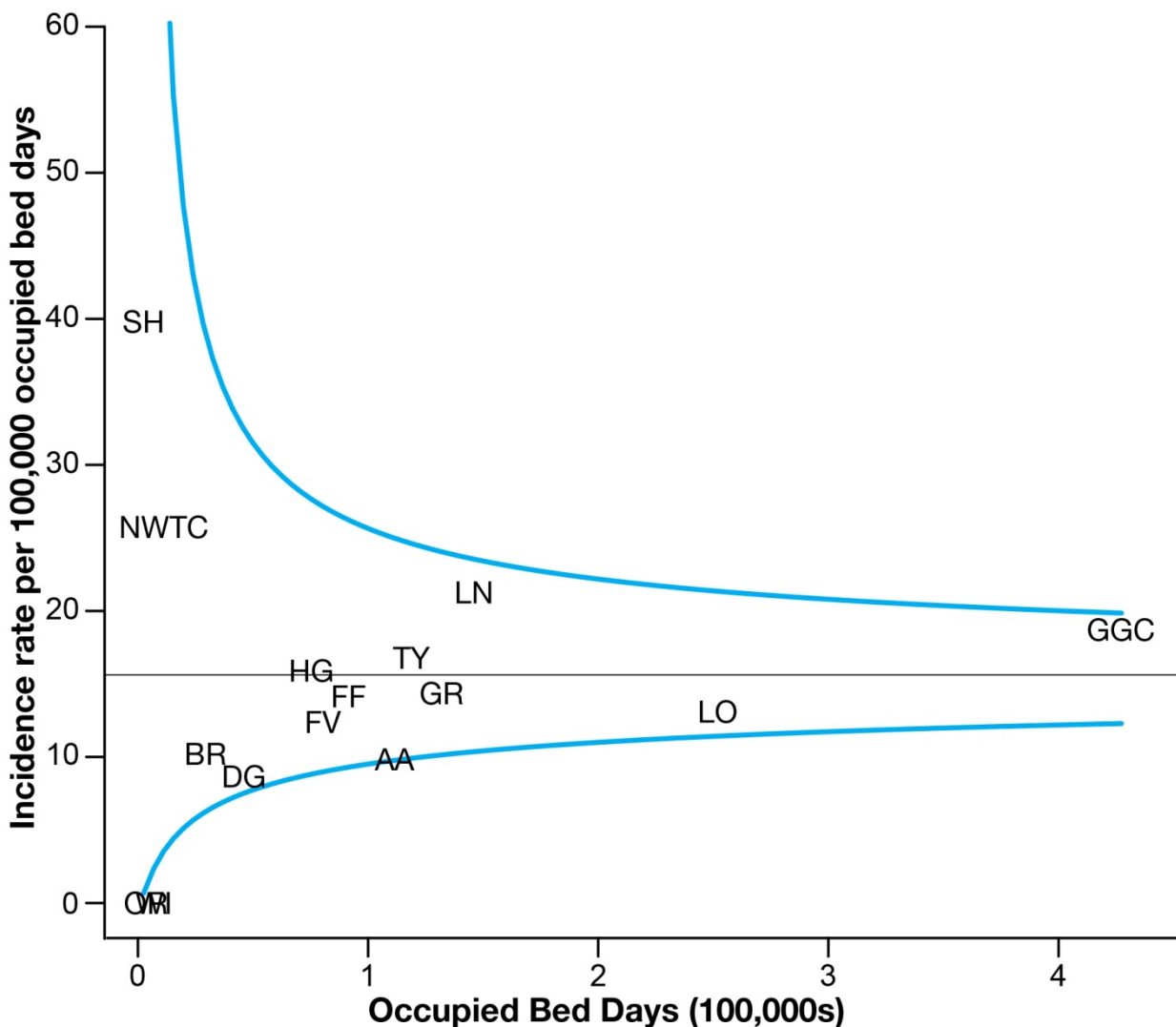
**Q4 (October to December 2018) compared to Q1 (January to March 2019)**

| <b>NHS Board</b> | <b>Q4 Cases</b> | <b>Q4 Bed Days</b> | <b>Q4 Rate</b> | <b>Q1 Cases</b> | <b>Q1 Bed Days</b> | <b>Q1 Rate</b> |
|------------------|-----------------|--------------------|----------------|-----------------|--------------------|----------------|
| AA               | 17              | 110,740            | 15.4           | 11              | 111,660            | 9.9            |
| BR               | 4               | 31,191             | 12.8           | 3               | 29,390             | 10.2           |
| DG               | 5               | 43,800             | 11.4           | 4               | 46,147             | 8.7            |
| FF               | 16              | 91,463             | 17.5           | 13              | 91,885             | 14.1           |
| FV               | 17              | 84,592             | 20.1           | 10              | 80,825             | 12.4           |
| <b>GR</b>        | <b>26</b>       | <b>131,734</b>     | <b>19.7</b>    | <b>19</b>       | <b>132,257</b>     | <b>14.4</b>    |
| GGC              | 88              | 417,273            | 21.1           | 80              | 427,318            | 18.7           |
| HG               | 14              | 72,346             | 19.4           | 12              | 75,357             | 15.9           |
| LN               | 24              | 142,634            | 16.8           | 31              | 145,876            | 21.3           |
| LO               | 35              | 254,499            | 13.8           | 33              | 251,904            | 13.1           |
| NWTC             | 4               | 11,765             | 34.0           | 3               | 11,654             | 25.7           |
| OR               | 1               | 3,843              | 26.0           | 0               | 3,829              | 0.0            |
| SH               | 1               | 2,501              | 40.0           | 1               | 2,511              | 39.8           |
| TY               | 17              | 115,115            | 14.8           | 20              | 119,250            | 16.8           |
| WI               | 0               | 6,753              | 0.0            | 0               | 6,871              | 0.0            |
| <b>Scotland</b>  | <b>269</b>      | <b>1,520,249</b>   | <b>17.7</b>    | <b>240</b>      | <b>1,536,734</b>   | <b>15.6</b>    |

- Note: Source of data is Electronic Communication of Surveillance in Scotland (ECOSS) & Total occupied bed days: Information Services Division ISD(S)
- Figures include any updates received following the last publication

**Funnel plot of SAB incidence rates (per 100,000 TOBD) in healthcare associated infection cases for all NHS Boards in Scotland**

**Q1 (January to March 2019)**



- Source of data is Electronic Communication of Surveillance in Scotland (ECOSS) & Total occupied bed days: Information Services Division ISD(S)
- NHS Orkney and NHS Western Isles overlap

## SAB cases and incidence rates (per 100,000 population) for community associated infection cases

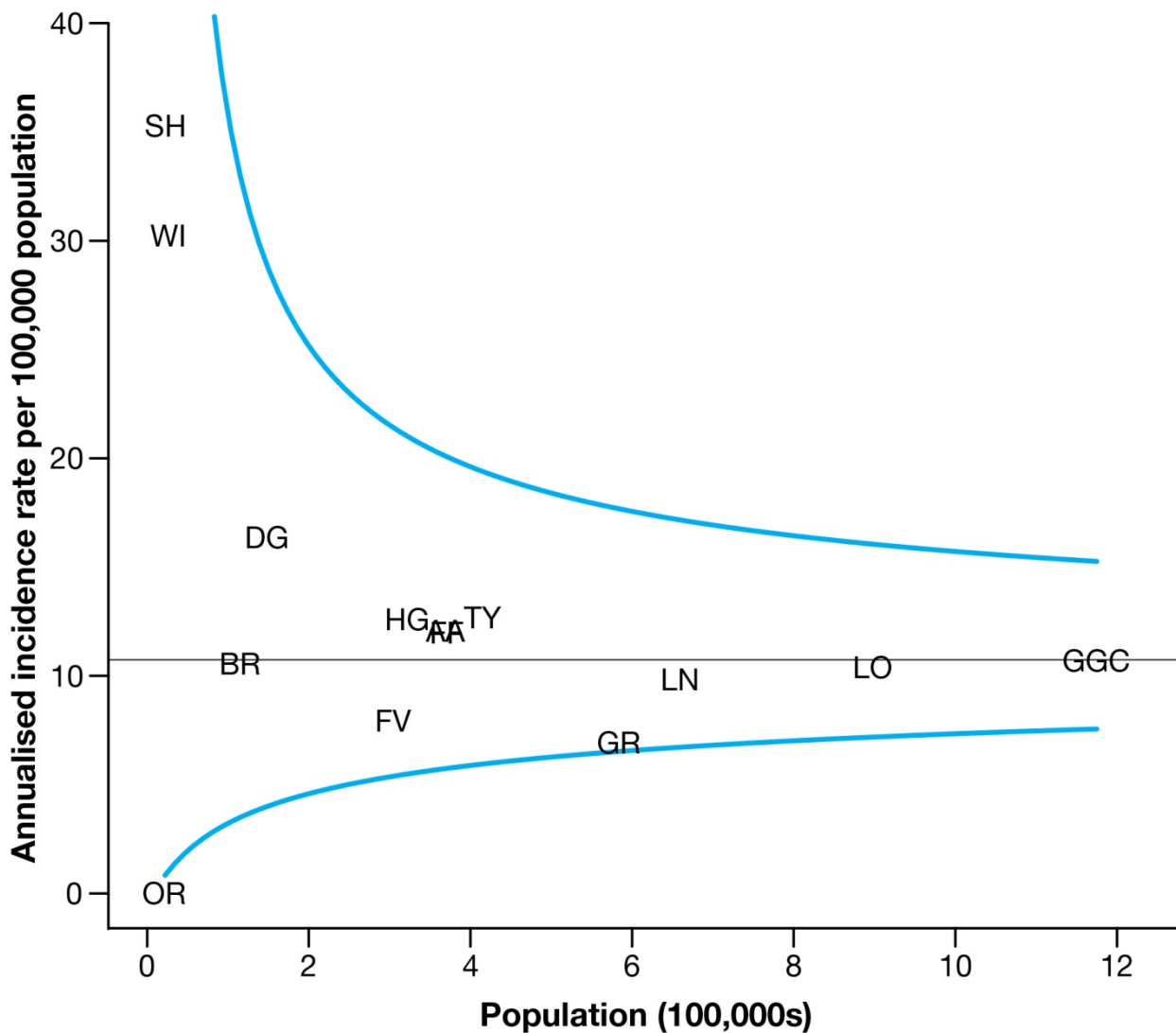
Q4 (October to December 2018) compared to Q1 (January to March 2019)

| NHS Board       | Q4 Cases   | Q4 Population    | Q4Rate     | Q1 Cases   | Q1 Population    | Q1 Rate       |
|-----------------|------------|------------------|------------|------------|------------------|---------------|
| AA              | 7          | 369,670          | 7.5        | 11         | 369,670          | 12.1          |
| BR              | 3          | 115,270          | 10.3       | 3          | 115,270          | 10.6          |
| DG              | 3          | 148,790          | 8.0        | 6          | 148,790          | 16.4          |
| FF              | 12         | 371,910          | 12.8       | 11         | 371,910          | 12.0          |
| FV              | 4          | 306,070          | 5.2        | 6          | 306,070          | 8.0           |
| <b>GR</b>       | <b>13</b>  | <b>584,550</b>   | <b>8.8</b> | <b>10</b>  | <b>584,550</b>   | <b>6.9</b>    |
| GGC             | 16         | 1,174,980        | 5.4        | 31         | 1,174,980        | 10.7          |
| HG              | 3          | 321,800          | 3.7        | 10         | 321,800          | 12.6          |
| LN              | 14         | 659,200          | 8.4        | 16         | 659,200          | 9.8           |
| LO              | 24         | 897,770          | 10.6       | 23         | 897,770          | 10.4          |
| OR              | 1          | 22,190           | 17.9       | 0          | 22,190           | 0.0           |
| SH              | 0          | 22,990           | 0.0        | 2          | 22,990           | 35.3          |
| TY              | 11         | 416,080          | 10.5       | 13         | 416,080          | 12.7          |
| WI              | 2          | 26,830           | 29.6       | 2          | 26,830           | 30.2          |
| <b>Scotland</b> | <b>113</b> | <b>5,438,100</b> | <b>8.3</b> | <b>144</b> | <b>5,438,100</b> | <b>10.7 ↑</b> |

- Quarterly population rates are based on an annualised population
- An arrow denotes statistically significant change
- Source of data is Electronic Communication of Surveillance in Scotland (ECOSS) & NRS mid-year population estimates
- Figures include any updates received following the last publication

**Funnel plot of SAB incidence rates (per 100,000 population) in community associated infection cases for all NHS Boards in Scotland**

**Q1 (January to March 2019)**



- Source of data is Electronic Communication of Surveillance in Scotland (ECOSS) & NRS mid-year population estimates
- NHS Ayrshire & Arran and NHS Fife overlap

| <b>Healthcare Associated SABs<br/>January – March 2019</b>        |               |
|---|---------------|
| <b>Source</b>   | <b>Number</b> |
| Skin & soft tissue (skin break, eczema, ulcer, cellulitis, other) | 6             |
| Devices (PVC, CVC tunnelled, urinary catheter, other)             | 6             |
| Surgical Site Infection (organ/space, deep, superficial)          | 3             |
| Respiratory infection   | 2             |
| Contaminant   | 1             |
| Not known   | 1             |
| <b>Total Healthcare Associated SABs</b>                           | <b>19</b>     |

| <b>Community Associated SABs<br/>January – March 2019</b> |               |
|---|---------------|
| <b>Source</b>   | <b>Number</b> |
| Skin & soft tissue (skin break, eczema, cellulitis)       | 7             |
| Respiratory infection                                     | 2             |
| Injection site related to illicit drug use                | 1             |
| Not known   | 1             |
| <b>Total Community Associated SABs</b>                    | <b>11*</b>    |

*\* One of these community associated SABs was re-assigned against the board of residence of the patient therefore the total community associated SABs for NHS Grampian during this quarter is 10*

## Surgical Site Infection (SSI) Surveillance

A Surgical Site Infection (SSI) is an infection that occurs after surgery in the part of the body where the surgery took place. SSI may be superficial infections involving the skin only while other SSI is more serious and can involve tissues under the skin, organs or implanted material. SSI is one of the most common types of HAI in Scotland<sup>4</sup>.

In Scotland the mandatory Surgical Site Infection (SSI) surveillance programme commenced in 2002. All NHS boards are required to undertake surveillance for hip arthroplasty (includes hemiarthroplasty) and caesarean section procedures as per the mandatory requirements of HDL (2006) 38 and CEL (11) 2009.

Post operative surveillance is carried out as follows:

- Caesarean section surveillance is carried out during admission, post discharge up to 10 days and readmission up to 30 days
- Hip arthroplasty (includes hemiarthroplasty) surveillance is carried out during admission, readmission up to 30 days and readmission up to 90 days if there is an implant

Information on the national surveillance programme for Surgical Site Infection can be found at:

<https://www.hps.scot.nhs.uk/web-resources-container/surgical-site-infection-surveillance-protocol-and-resource-pack-edition-71/>

**Caesarean section procedures and SSI incidence (per 100 procedures) for inpatients and post discharge surveillance to day 10**

**Q4 (October to December 2018) compared to Q1 (January to March 2019)**

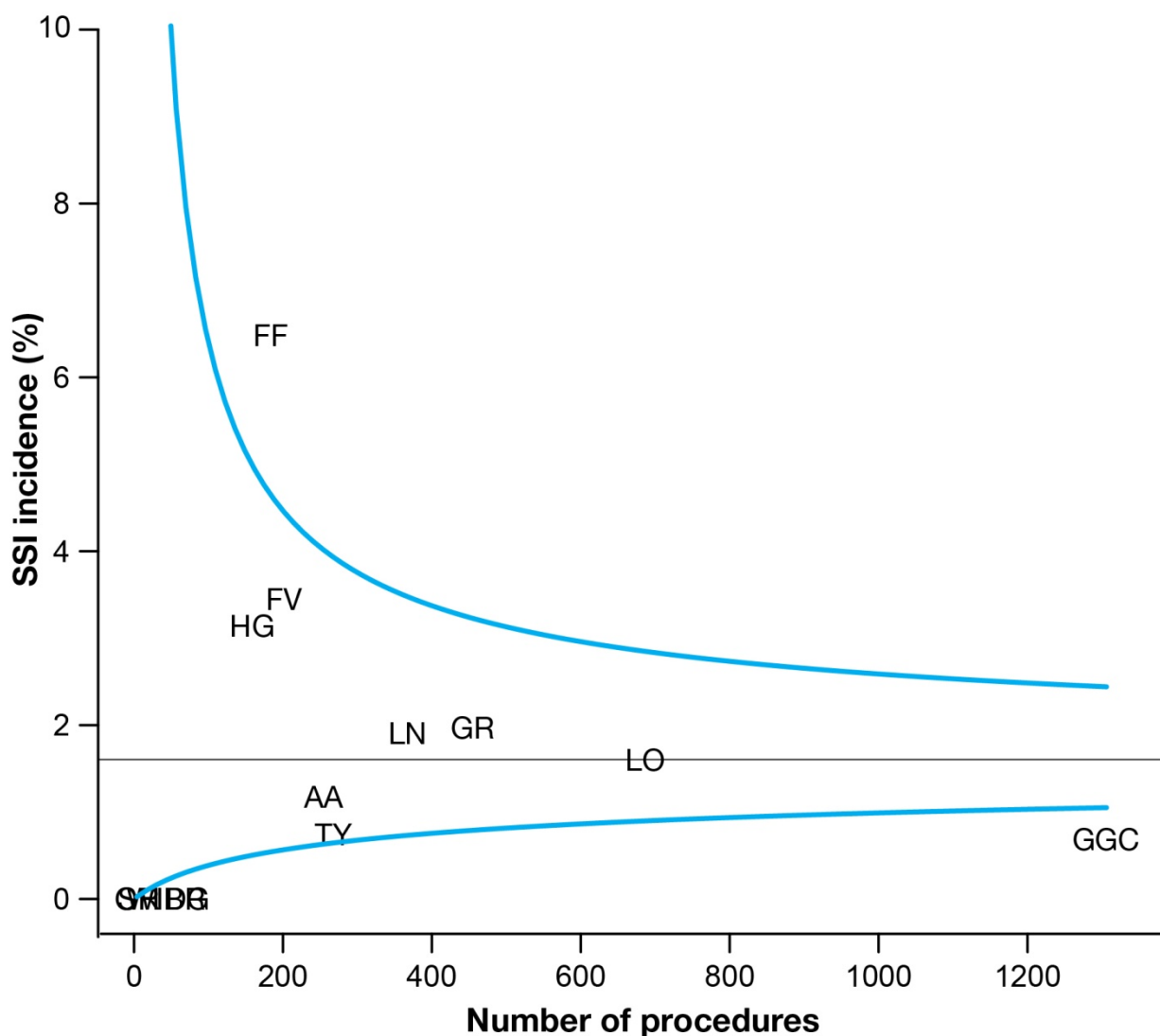
| <b>NHS Board</b> | <b>Q4 SSI</b> | <b>Q4 Procedures</b> | <b>Q4 Incidence</b> | <b>Q1 SSI</b> | <b>Q1 Procedures</b> | <b>Q1 Incidence</b> |
|------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|
| AA               | 4             | 294                  | 1.4                 | 3             | 255                  | 1.2                 |
| BR               | 0             | 67                   | 0.0                 | 0             | 68                   | 0.0                 |
| DG               | 1             | 83                   | 1.2                 | 0             | 72                   | 0.0                 |
| FF               | 4             | 238                  | 1.7                 | 12            | 185                  | 6.5                 |
| FV               | 5             | 253                  | 2.0                 | 7             | 203                  | 3.4                 |
| <b>GR</b>        | <b>7</b>      | <b>462</b>           | <b>1.5</b>          | <b>9</b>      | <b>456</b>           | <b>2.0</b>          |
| GGC              | 16            | 1,365                | 1.2                 | 9             | 1,306                | 0.7                 |
| HG               | 2             | 167                  | 1.2                 | 5             | 159                  | 3.1                 |
| LN               | 7             | 387                  | 1.8                 | 7             | 367                  | 1.9                 |
| LO               | 8             | 705                  | 1.1                 | 11            | 687                  | 1.6                 |
| OR               | 0             | 13                   | 0.0                 | 0             | 4                    | 0.0                 |
| SH               | 0             | 5                    | 0.0                 | 0             | 6                    | 0.0                 |
| TY               | 5             | 299                  | 1.7                 | 2             | 269                  | 0.7                 |
| WI               | 0             | 8                    | 0.0                 | 0             | 15                   | 0.0                 |
| <b>Scotland</b>  | <b>59</b>     | <b>4,346</b>         | <b>1.4</b>          | <b>65</b>     | <b>4,052</b>         | <b>1.6</b>          |

- Source of data is Surgical Site Infection Reporting System (SSIRS)
- Figures include any updates received following the last publication



**Funnel plot of caesarean section SSI incidence (per 100 procedures) in inpatients and post discharge surveillance to day 10 for all NHS Boards in Scotland**

**Q1 (January to March 2019)**



- Source of data is Surgical Site Infection Reporting System (SSIRS)
- NHS Borders, NHS Dumfries & Galloway, NHS Orkney, NHS Shetland and NHS Western Isles overlap

**Hip arthroplasty procedures and SSI incidence (per 100 procedures) for inpatients  
and on readmission to day 30**

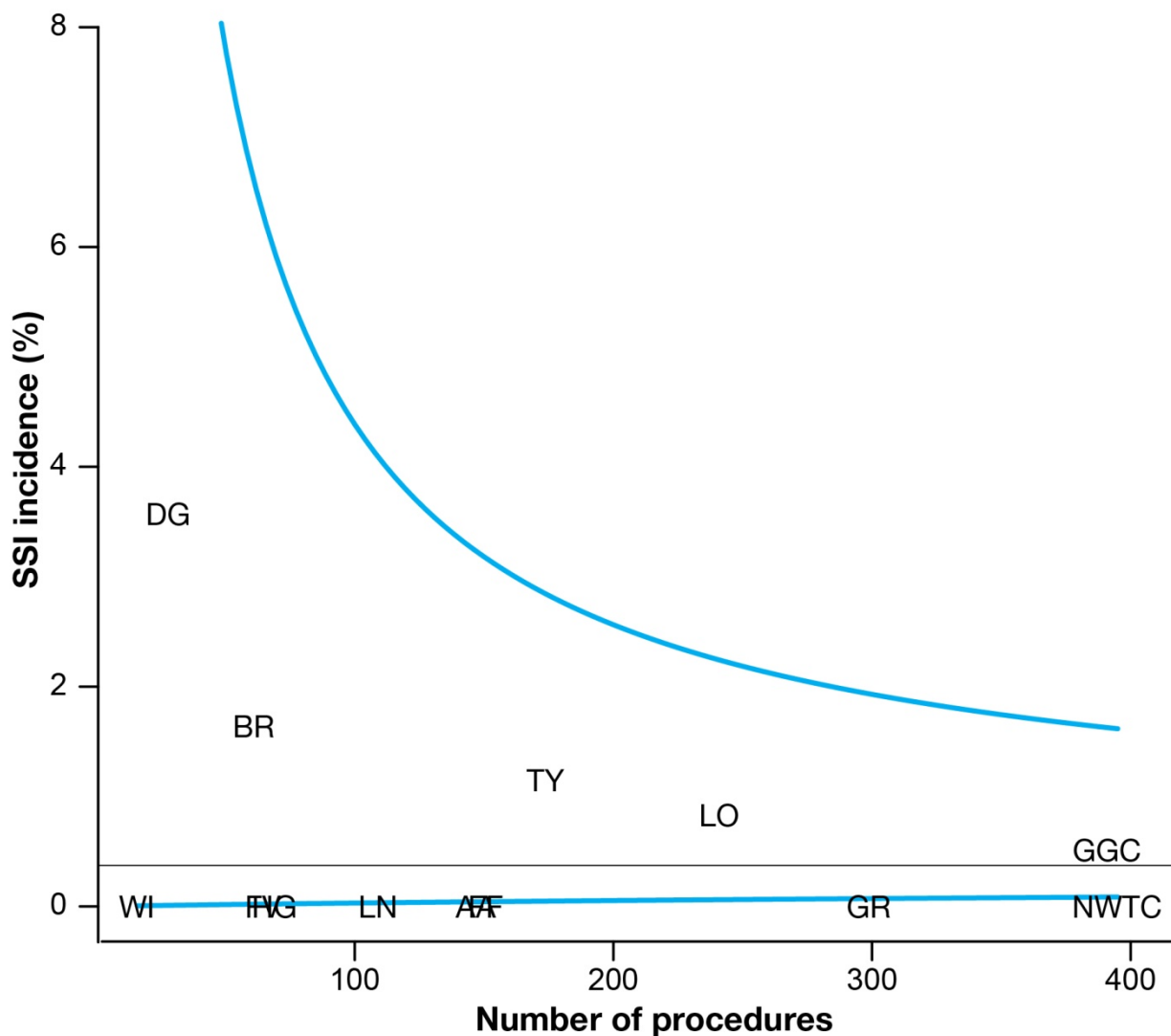
**Q4 (October to December 2018) compared to Q1 (January to March 2019)**

| <b>NHS Board</b> | <b>Q4 SSI</b> | <b>Q4 Procedures</b> | <b>Q4 Incidence</b> | <b>Q1 SSI</b> | <b>Q1 Procedures</b> | <b>Q1 Incidence</b> |
|------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|
| AA               | 0             | 143                  | 0.0                 | 0             | 147                  | 0.0                 |
| BR               | 1             | 87                   | 1.1                 | 1             | 61                   | 1.6                 |
| DG               | 0             | 51                   | 0.0                 | 1             | 28                   | 3.6                 |
| FF               | 1             | 144                  | 0.7                 | 0             | 151                  | 0.0                 |
| FV               | 0             | 64                   | 0.0                 | 0             | 65                   | 0.0                 |
| <b>GR</b>        | <b>3</b>      | <b>288</b>           | <b>1.0</b>          | <b>0</b>      | <b>299</b>           | <b>0.0</b>          |
| GGC              | 3             | 378                  | 0.8                 | 2             | 391                  | 0.5                 |
| HG               | 0             | 86                   | 0.0                 | 0             | 69                   | 0.0                 |
| LN               | 2             | 130                  | 1.5                 | 0             | 109                  | 0.0                 |
| LO               | 0             | 264                  | 0.0                 | 2             | 241                  | 0.8                 |
| NWTC             | 0             | 473                  | 0.0                 | 0             | 395                  | 0.0                 |
| TY               | 5             | 156                  | 3.2                 | 2             | 174                  | 1.1                 |
| WI               | 0             | 12                   | 0.0                 | 0             | 16                   | 0.0                 |
| <b>Scotland</b>  | <b>15</b>     | <b>2,276</b>         | <b>0.7</b>          | <b>8</b>      | <b>2,146</b>         | <b>0.4</b>          |

- Source of data is Surgical Site Infection Reporting System (SSIRS)
- Figures include any updates received following the last publication

**Funnel plot of hip arthroplasty SSI incidence (per 100 procedures) in inpatients and on readmission to day 30 for all NHS Boards in Scotland**

**Q1 (January to March 2019)**



- Source of data is Surgical Site Infection Reporting System (SSIRS)
- NHS Forth Valley and NHS Highland overlap as do NHS Ayrshire & Arran and NHS Fife

## Meticillin-Resistant *Staphylococcus Aureus* (MRSA) Screening

The majority of individuals affected by Meticillin-Resistant *Staphylococcus Aureus* (MRSA) are colonised. This is when an organism lives harmlessly on the body with no ill effects. Infection is when the organism gains entry or penetrates tissue or sterile sites and causes disease process. MRSA is a form of *Staphylococcus aureus* (*S. aureus*). It is transmitted in the same way and causes the same range of infection but is resistant to commonly used antibiotics. This makes MRSA infections more difficult and costly to treat, hence every effort must be made to prevent spread<sup>5</sup>.

In early 2011, the Scottish Government announced new national minimum MRSA screening recommendations. Targeted MRSA screening by specialty (implemented in January 2010) has now been replaced by a Clinical Risk Assessment (CRA) followed by a nose and perineal swab (if the patient answers yes to any of the CRA questions). National Key Performance Indicators (KPIs) have now been implemented with Boards being required to achieve 90% compliance with CRA completion.

MRSA CRA screening compliance for Quarter 4\* (January – March 2019) within NHS Grampian was 87%.

*\*Please note that Quarter 4 for MRSA CRA screening is January – March 2019*

|          | 2017-18 Q3 | 2017-18 Q4 | 2018-19 Q1 | 2018-19 Q2 | 2018-19 Q3 | 2018-19 Q4 |
|----------|------------|------------|------------|------------|------------|------------|
| Grampian | 89%        | 92%        | 86%        | 84%        | 89%        | <b>87%</b> |
| Scotland | 88%        | 83%        | 84%        | 84%        | 83%        | 83%        |

More information on the national surveillance programme for MRSA screening can be found at:

<https://www.hps.scot.nhs.uk/web-resources-container/protocol-for-cra-mrsa-screening-national-rollout-in-scotland/>

## Carbapenemase Producing Enterobacteriaceae (CPE) Screening

Infections caused by CPE are associated with high rates of morbidity and mortality and can have severe clinical consequences. Treatment of these infections is increasingly difficult as these organisms are often resistant to many and sometimes all available antibiotics. The number of CPE cases in Scotland remains low however we have seen a 50% increase in cases between 2016 (73) and 2017 (108) across Scotland.

Screening and data collection for CPE commenced 1<sup>st</sup> April 2018 at the request of the Scottish Government. All NHS Boards are required to undertake screening compliance as per the mandatory requirements of DL (2017) 2.

CPE CRA screening compliance for Quarter 4\* (January – March 2019) within NHS Grampian was 97%.

*\*Please note that Quarter 4 for CPE CRA screening is January – March 2019*

|          | 2018-19 Q1 | 2018-19 Q2 | 2018-19 Q3 | 2018-19 Q4 |
|----------|------------|------------|------------|------------|
| Grampian | 70%        | 93%        | 100%       | <b>97%</b> |
| Scotland | 72%        | 79%        | 78%        | 81%        |

More information on CPE screening can be found at:

<https://www.hps.scot.nhs.uk/resourcedocument.aspx?id=6990>

## Incidents and Outbreaks - Norovirus Prevalence

Monday Point Prevalence Surveillance figures are reported to Health Protection Scotland. These capture the significant outbreaks of Norovirus in NHS Grampian and the prevalence of Norovirus activity in close to real time. They are not and should not be interpreted as data for benchmarking or judgement. The data can be used for the assessment of risk and Norovirus outbreak preparedness only.

The following table details complete and partial ward closures in NHS Grampian due to enteric outbreaks (confirmed or suspected Norovirus).

|               | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | Jun 2019 |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Ward Closures | 0        | 0        | 1        | 2        | 0        | 2        | 0        | 0        | 0        | 2        | 2        | 0        |
| Bay Closures  | 0        | 1        | 0        | 0        | 1        | 2        | 0        | 0        | 0        | 0        | 0        | 0        |

Data on the numbers of wards closed across NHS Scotland due to confirmed or suspected Norovirus are available from HPS at:

<https://www.hps.scot.nhs.uk/a-to-z-of-topics/norovirus/#data>

(Do not use Internet Explorer to open this hyperlink, use Google Chrome instead)

NB. The method of data collection allows for data to be retrospective, therefore on occasions there will be bay/ward closures that are not seen on the dashboard until these areas are re-opened.

## Incident Management Team (IMT) and Problem Assessment Group (PAG) Meetings

In NHS Grampian the Infection Prevention and Control Team are continually alert for an actual or potential healthcare incident, infection and outbreak or data exceedance. We apply Chapter 3 of the National Infection Prevention and Control Manual<sup>6</sup>. The Healthcare Infection Incident Assessment Tool (HIIAT)<sup>7</sup> guides assessment, communication and escalation of risk within the Health Board, HPS and Scottish Government. Multi-disciplinary meetings to address the infection risk are called PAGs and IMTs. PAGs and IMTs can be supported by NHS Grampian's Health Protection Team and Health Protection Scotland.

A PAG may be convened to assess and determine if an IMT is required or whether there has been a greater than expected data exceedance such as non-compliant hand hygiene audits.

An IMT is defined as a multi-disciplinary, multi-agency group with responsibility for investigating and managing an incident<sup>8</sup>.

In NHS Grampian between April and June 2019 there were a total of eight Incident Management Team (IMT) meetings and five Problem Assessment Group (PAG) meetings. These meetings establish and monitor risk control measures for patient and staff safety.

**Please note: all IMTs remain ongoing and have not been closed yet.**

| IMT meetings<br>April – June 2019 |                                   |   |   |
|-----------------------------------|-----------------------------------|---|---|
| Date                              | Area                              | Reason                                      | HIIAT assessment*<br>(dynamic assessment accurate at the time of reporting) |
| 16.04.19                          | ITU, ARI                          | Aspergillus fumigatus – increased incidence | Amber   |
| 25.04.19                          |                                   |   | Green   |
| 30.05.19                          |                                   |   | Green   |
| 26.04.19                          | Kincardine Renal Unit, Stonehaven | Water Safety                                | Green   |
| 05.06.19                          |                                   |   | Green   |
| 30.05.19                          | Eye OPD, ARI                      | Ventilation Safety                          | Green   |
| 11.06.19                          |                                   |   | Red   |
| 18.06.19                          | Aberdeen Health Village           | Water Safety                                | Green   |

### \*HIIAT assessment

All Minor = **Green**

No Major and 2-4 Moderate = **Amber**

3 Minor and 1 Moderate = **Green**

Any Major = **Red**

## Incident Management Team (IMT) and Problem Assessment Group (PAG) Meetings

| PAG meetings<br>April – June 2019 |                           |   |   |
|-----------------------------------|---------------------------|---|---|
| Date                              | Area                      | Reason                                  | HIIAT assessment*<br>(dynamic assessment accurate at the time of reporting) |
| 10.05.19                          | Ward 17, Woodend          | Hand Hygiene Audit                      | Green   |
| 28.05.19                          | Eye OPD, ARI              | Ventilation Safety – initial assessment | Green   |
| 12.06.19                          | Theatres 4 & 12, ARI      | Hand Hygiene Audits                     | Green   |
| 07.06.19                          | Stroke Unit East, Woodend | MRSA - increased incidence              | Green   |
| 26.06.19                          | Emergency Dept, ARI       | Hand Hygiene Audit                      | Green   |

### \*HIIAT assessment

All Minor = **Green**

No Major and 2-4 Moderate = **Amber**

3 Minor and 1 Moderate = **Green**

Any Major = **Red**



## Cleaning and the Healthcare Environment

NHS Grampian, as a whole, continues to achieve the required cleanliness standards as monitored by the Facilities Monitoring Tool.

Between April and June 2019 one location in NHS Grampian fell below the 90% estates monitoring compliance target.

|   | Apr 2019 Domestic | Apr 2019 Estates | May 2019 Domestic | May 2019 Estates | Jun 2019 Domestic | Jun 2019 Estates | Quarter 1 Domestic | Quarter 1 Estates |
|---|-------------------|------------------|-------------------|------------------|-------------------|------------------|--------------------|-------------------|
| <b>NHS Grampian Overall</b>                                   | 93.50             | 94.50            | 93.00             | 93.75            | 93.54             | 94.22            | <b>93.35</b>       | <b>94.16</b>      |
| <b>Aberdeen Maternity Hospital, RACH &amp; Outlying Areas</b> | 92.40             | 91.90            | 93.15             | 90.40            | 92.78             | 92.40            | <b>92.78</b>       | <b>91.6</b>       |
| <b>Aberdeen Royal Infirmary</b>                               | 92.55             | 95.20            | 91.75             | 95.25            | 92.28             | 95.59            | <b>92.2</b>        | <b>95.35</b>      |
| <b>Aberdeenshire North &amp; Moray Community</b>              | 95.55             | 95.30            | 97.35             | 96.35            | 96.23             | 96.23            | <b>96.4</b>        | <b>95.96</b>      |
| <b>Aberdeenshire South &amp; Aberdeen City</b>                | 96.40             | 98.85            | 92.60             | 98.60            | 95.08             | 97.60            | <b>94.7</b>        | <b>98.35</b>      |
| <b>Dr Grays Hospital</b>                                      | 93.70             | 89.65            | 93.50             | 87.80            | 93.89             | 88.55            | <b>93.7</b>        | <b>88.67</b>      |
| <b>Royal Cornhill Hospital</b>                                | 96.75             | 96.75            | 93.80             | 96.05            | 93.31             | 95.22            | <b>94.62</b>       | <b>95.37</b>      |
| <b>Woodend Hospital</b>                                       | 95.15             | 95.75            | 94.55             | 95.60            | 94.68             | 95.21            | <b>94.8</b>        | <b>95.52</b>      |

## Healthcare Associated Infection Reporting Template (HAIRT)

### Section 2 – Healthcare Associated Infection Report Cards

The following section is a series of ‘Report Cards’ that provide information, for each acute hospital and key community hospitals in the Board, on the number of cases of *Staphylococcus aureus* blood stream infections (also broken down into MSSA and MRSA) and *Clostridioides* (formerly *Clostridium*) *difficile* infections, as well as cleaning compliance and hand hygiene. In addition, there is a single report card which covers all community hospitals [which do not have individual cards], and a report which covers infections identified as having been contracted from outwith hospital. The information in the report cards is provisional local data, and may differ from the national surveillance reports carried out by Health Protection Scotland and Health Facilities Scotland. The national reports are official statistics which undergo rigorous validation, which means final national figures may differ from those reported here. However, these reports aim to provide more detailed and up to date information on HAI activities at local level than is possible to provide through the national statistics.

#### Understanding the Report Cards – Infection Case Numbers

*Clostridioides* (formerly *Clostridium*) *difficile* infections (CDI) and *Staphylococcus aureus* bacteraemia (SAB) cases are presented for each hospital, broken down by month. *Staphylococcus aureus* bacteraemia (SAB) cases are further broken down into Meticillin Sensitive *Staphylococcus aureus* (MSSA) and Meticillin Resistant *Staphylococcus aureus* (MRSA).

For each hospital the total number of cases for each month are those which have been reported as positive from a laboratory report on samples taken more than 48 hours after admission. For the purposes of these reports, positive samples taken from patients within 48 hours of admission will be considered to be confirmation that the infection was contracted prior to hospital admission and will be shown in the “out of hospital” report card.

#### Targets

The national targets associated with reductions in CDIs and SABs are currently under review. More information on these can be found on the Scotland Performs website:

<http://www.gov.scot/About/Performance/scotPerforms/NHSScotlandperformance>

#### Understanding the Report Cards – Cleaning Compliance

Hospitals strive to keep the care environment as clean as possible. This is monitored through cleaning and estates compliance audits. More information on how hospitals carry out these audits can be found on the Health Facilities Scotland website:

<http://www.hfs.scot.nhs.uk/publications-/guidance-publications/?keywords=monitoring+framework&section=&category=&month=&year=&show=10>

## Understanding the Report Cards – Hand Hygiene Compliance

Hospitals carry out regular audits of how well their staff are complying with hand hygiene. Each hospital report card presents the combined percentage of hand hygiene compliance with both opportunity taken and technique used broken down by staff group.

## Understanding the Report Cards – ‘*Out of Hospital Infections*’

*Clostridioides* (formerly *Clostridium*) *difficile* infections and *Staphylococcus aureus* (including MRSA) bacteraemia cases are all associated with being treated in hospitals. However, this is not the only place a patient may contract an infection. This total will also include infection from community sources such as GP surgeries and care homes. The final Report Card report in this section covers ‘*Out of Hospital Infections*’ and reports on SAB and CDI cases reported to a Health Board which are not attributable to a hospital.

## NHS BOARD REPORT CARD – NHS Grampian

### Staphylococcus aureus bacteraemia - monthly case numbers

|                   | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | June 2019 |
|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| <b>MRSA</b>       | 0        | 0        | 1        | 2        | 0        | 2        | 0        | 0        | 0        | 0        | 1        | 0         |
| <b>MSSA</b>       | 9        | 18       | 12       | 13       | 15       | 7        | 12       | 9        | 8        | 15       | 13       | 9         |
| <b>Total SABS</b> | 9        | 18       | 13       | 15       | 15       | 9        | 12       | 9        | 8        | 15       | 14       | 9         |

### Clostridioides (formerly Clostridium) difficile infections - monthly case numbers

|                              | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | June 2019 |
|------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| <b>Total CDIs (Ages 15+)</b> | 22       | 12       | 11       | 7        | 7        | 8        | 9        | 3        | 12       | 2        | 7        | 6         |

### Cleaning Compliance (%)

|                    | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | June 2019 |
|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| <b>Board Total</b> | 93       | 94       | 94       | 93       | 94       | 94       | 93       | 93       | 94       | 94       | 93       | 93        |

### Estates Monitoring Compliance (%)

|                    | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | June 2019 |
|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| <b>Board Total</b> | 95       | 95       | 95       | 94       | 95       | 95       | 94       | 93       | 95       | 95       | 94       | 94        |

### Hand Hygiene Monitoring Compliance (%)

|                  | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | Jun 2019 |
|------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>AHP</b>       | 99       | 99       | 98       | 98       | 99       | 99       | 99       | 99       | 99       | 98       | 98       | 99       |
| <b>Ancillary</b> | 96       | 96       | 96       | 98       | 96       | 97       | 97       | 96       | 97       | 93       | 95       | 93       |
| <b>Medical</b>   | 99       | 99       | 99       | 97       | 98       | 100      | 97       | 96       | 94       | 96       | 96       | 97       |
| <b>Nurse</b>     | 95       | 98       | 97       | 99       | 95       | 99       | 98       | 98       | 97       | 99       | 98       | 99       |

## NHS HOSPITAL A REPORT CARD – Aberdeen Royal Infirmary

### Staphylococcus aureus bacteraemia - monthly case numbers

|                   | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | June 2019 |
|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| <b>MRSA</b>       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         |
| <b>MSSA</b>       | 4        | 3        | 3        | 5        | 3        | 3        | 3        | 3        | 0        | 0        | 5        | 1         |
| <b>Total SABS</b> | 4        | 3        | 3        | 5        | 3        | 3        | 3        | 3        | 0        | 0        | 5        | 0         |

### Clostridioides (formerly Clostridium) difficile infections - monthly case numbers

|                              | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | June 2019 |
|------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| <b>Total CDIs (Ages 15+)</b> | 3        | 5        | 3        | 4        | 2        | 1        | 2        | 0        | 5        | 1        | 3        | 0         |

### Cleaning Compliance (%)

|                  | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | June 2019 |
|------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| <b>ARI Total</b> | 93       | 93       | 93       | 92       | 94       | 94       | 93       | 93       | 92       | 93       | 92       | 92        |

### Estates Monitoring Compliance (%)

|                  | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | June 2019 |
|------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| <b>ARI Total</b> | 96       | 96       | 96       | 95       | 96       | 96       | 95       | 96       | 96       | 95       | 95       | 95        |

## NHS HOSPITAL B REPORT CARD – Dr Gray’s Hospital

### Staphylococcus aureus bacteraemia - monthly case numbers

|                   | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | June 2019 |
|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| <b>MRSA</b>       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         |
| <b>MSSA</b>       | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         |
| <b>Total SABS</b> | 0        | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         |

### Clostridioides (formerly Clostridium) difficile infections - monthly case numbers

|                              | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | June 2019 |
|------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| <b>Total CDIs (Ages 15+)</b> | 0        | 1        | 0        | 0        | 0        | 0        | 1        | 0        | 1        | 0        | 0        | 0         |

### Cleaning Compliance (%)

|                  | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | June 2019 |
|------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| <b>DGH Total</b> | 93       | 94       | 93       | 91       | 93       | 93       | 92       | 93       | 94       | 94       | 94       | 94        |

### Estates Monitoring Compliance (%)

|                  | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | June 2019 |
|------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| <b>DGH Total</b> | 91       | 91       | 91       | 90       | 92       | 91       | 88       | 89       | 89       | 90       | 88       | 89        |

## NHS HOSPITAL C REPORT CARD – Woodend Hospital

### Staphylococcus aureus bacteraemia - monthly case numbers

|                   | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | June 2019 |
|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| <b>MRSA</b>       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         |
| <b>MSSA</b>       | 0        | 0        | 0        | 0        | 0        | 1        | 0        | 0        | 1        | 1        | 0        | 0         |
| <b>Total SABS</b> | 0        | 0        | 0        | 0        | 0        | 1        | 0        | 0        | 1        | 1        | 0        | 0         |

### Clostridioides (formerly Clostridium) difficile infections - monthly case numbers

|                              | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | June 2019 |
|------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| <b>Total CDIs (Ages 15+)</b> | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         |

### Cleaning Compliance (%)

|                  | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | June 2019 |
|------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| <b>WGH Total</b> | 95       | 96       | 94       | 92       | 95       | 95       | 94       | 94       | 94       | 95       | 95       | 95        |

### Estates Monitoring Compliance (%)

|                  | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | June 2019 |
|------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| <b>WGH Total</b> | 98       | 99       | 96       | 93       | 95       | 95       | 96       | 90       | 96       | 96       | 96       | 96        |

## OTHER NHS HOSPITALS REPORT CARD

The other hospitals covered in this report card include:

Aberdeen Maternity Hospital  
 Royal Cornhill Hospital  
 Royal Aberdeen Children's Hospital  
 Roxburgh House  
 All Community Hospitals

### *Staphylococcus aureus* bacteraemia - monthly case numbers

|                   | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | June 2019 |
|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| <b>MRSA</b>       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         |
| <b>MSSA</b>       | 0        | 0        | 1        | 0        | 1        | 0        | 0        | 0        | 1        | 1        | 0        | 0         |
| <b>Total SABS</b> | 0        | 0        | 1        | 0        | 1        | 0        | 0        | 0        | 1        | 1        | 0        | 0         |

### *Clostridioides* (formerly *Clostridium*) *difficile* infections - monthly case numbers

|                              | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | June 2019 |
|------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| <b>Total CDIs (Ages 15+)</b> | 2        | 1        | 0        | 0        | 0        | 1        | 0        | 1        | 0        | 0        | 0        | 0         |

## NHS OUT OF HOSPITAL REPORT CARD

### *Staphylococcus aureus* bacteraemia - monthly case numbers

|                   | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | June 2019 |
|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| <b>MRSA</b>       | 0        | 0        | 0        | 2        | 0        | 2        | 0        | 0        | 0        | 0        | 1        | 0         |
| <b>MSSA</b>       | 5        | 13       | 1        | 8        | 11       | 3        | 9        | 6        | 6        | 13       | 8        | 8         |
| <b>Total SABS</b> | 5        | 13       | 1        | 10       | 11       | 5        | 9        | 6        | 6        | 13       | 9        | 8         |

### *Clostridioides* (formerly *Clostridium*) *difficile* infections - monthly case numbers

|                              | Jul 2018 | Aug 2018 | Sep 2018 | Oct 2018 | Nov 2018 | Dec 2018 | Jan 2019 | Feb 2019 | Mar 2019 | Apr 2019 | May 2019 | June 2019 |
|------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| <b>Total CDIs (Ages 15+)</b> | 17       | 5        | 8        | 4        | 5        | 6        | 6        | 2        | 6        | 1        | 4        | 6         |



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