

NHS GRAMPIAN

Healthcare Associated Infection (HAI) Bimonthly Report – November 2018

Executive Summary

The following HAIRT report contains NHS Grampian's surveillance data and associated infection rates as reported in Health Protection Scotland's Quarterly Epidemiological Data for April to June 2018.

The following information has been reported as:

Q2

Above National Average:

- *Clostridium Difficile* infection rates - for healthcare
- *Clostridium difficile* infection rates - for community
- *Staphylococcus aureus* bacteraemias (SABs) - for healthcare

Below National Average:

- *E.coli* bacteraemias - for healthcare
- *E.coli* bacteraemias - for community
- Caesarean Section Surgical Site Infection
- Hip Arthroplasty Surgical Site Infection
- *Staphylococcus aureus* bacteraemias (SABs) - for community

Year Ending June 2018

Above National Average:

- *Clostridium Difficile* infection rates - for healthcare
- *Clostridium difficile* infection rates - for community
- *E.coli* bacteraemias - for healthcare
- *Staphylococcus aureus* bacteraemias (SABs) - for healthcare
- Hip Arthroplasty surgical site infection
-

Below or Equal to National Average:

- Caesarean Section surgical site infections
- *E.coli* bacteraemias - for community
- *Staphylococcus aureus* bacteraemias (SABs) - for community

Health Facilities Scotland (HFS)

NHS Grampian continues to achieve the required cleanliness standards across all locations as monitored by the Facilities Monitoring Tool. NHSG compliance rate is 95% with a target of 90%.

MRSA Screening

MRSA (CRA) screening compliance for Quarter 2 was 84% which is equal to the national average (84%) but below the compliance target of 90%.

Carbapenemase Producing Enterobacteriaceae (CPE) Screening

Enterobacteriaceae are a group of gram negative bacteria that are part of a normal range of bacteria found in the gut. These bacteria include E coli, Klebsiella pneumoniae, and Enterobacter aerogenes. When they live harmlessly in the gut, this is called colonisation. Carbapenemase is the enzyme that can be produced by these bacteria which destroy most available antibiotics therefore making the infection difficult to treat resulting in limited treatment options.

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 commenced 1st April 2018.

Quarter 2 (July – September 2018) data:

- Clinical Risk Assessment compliance was 93% compliance, with a target of 90%
- National average was 79%

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

- Local Delivery Plan Standards for 2016/17
 - *Staphylococcus aureus* bacteraemia (SAB) cases are 0.24 or less per 1,000 acute occupied bed days (AOBD)
 - *Clostridium difficile* infections (CDI) in patients aged 15 and over is 32 cases or less per 100,000 total occupied bed days (TOBD)
- National Key Performance Indicators for MRSA screening
- National Hand Hygiene Compliance Target
- National Health Facilities Scotland (HFS) Environmental Cleaning Target
- National Health Facilities Scotland (HFS) Estates Monitoring Target
- National Hospital Antimicrobial Prescribing Quality Indicators for 2017-18

3. Key matters relevant to recommendation

Issue	Group	Target	Period & source	NHS Scot	NHS G	RAG
CDIs	Healthcare Associated Infection	Local Delivery Plan Standards	Apr - Jun 2018, HPS	15.7	33.8	Red
	Community Associated Infection	32 cases per 100,000 TOBD		7.9	20.5	Red
<i>E coli</i> Bacteraemia	Healthcare Associated Infection	No target (rate per 100,000 bed days)	Apr - Jun 2018, HPS	38.0	28.7	Green
	Community Associated Infection	No target (annualised rate per 100,000 population)		44.1	34.2	Green
SABs	Healthcare & Community Associated Infection	Local Delivery Plan Standards 0.24 or less cases per 1,000 AOB	Apr - Jun 2018, HPS	0.33	0.33	Amber
Surgical Site Infections (SSIs)	Caesarean Section	n/a	Apr - Jun 2018 HPS	1.5%	1.2%	Green
	Hip Arthroplasty	n/a	Apr - Jun 2018 HPS	0.8%	0.3%	Green
MRSA (CRA) screening		HPS 90%	Jul - Sep 2018, HPS	84%	84%	Amber
Hand Hygiene	All clinical areas	SGHD 90%	Jul - Sep 2018, NHSG	N/A	98%	Green
Cleaning		HFS 90%	Jul - Sep 2018, NHSG	N/A	94%	Green
Estates		HFS 90%	Jul - Sep 2018, NHSG	N/A	95%	Green

RAG Status Ready Reckoner

Above upper control limit
 Below upper control limit but above National average
 Below National average
 Below lower control limit

Red
Amber
Green
Green

National Quality Indicator – Hospital Antimicrobial Prescribing

The national indicators are currently under review. We anticipate the new indicators to be agreed and published in the new year. We continue to collect the national audit data (as previously submitted for this report) but this is no longer aligned to the national indicators, is now a different data set, and is for use in local quality improvement work. We will feedback the results from this audit to the wards areas and the Antimicrobial Management Team.

National Quality Indicator Primary Care Antimicrobial Prescribing

No data available as baseline against which the target is measured has not been updated.

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)
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Contact for further information

Grace Mckerron
Infection Prevention and Control Manager
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***Clostridium difficile* Infection**

***Clostridium difficile* Infection Surveillance**

As with Staph aureus bacteraemias, each new case is discussed at a weekly multidisciplinary team meeting involving Infection Prevention and Control Doctor(s), Infection Prevention and Control Nurses and Surveillance Nurse – the Infection Unit Nurse is not present for the CDI case discussions. 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.

Local enhanced surveillance data can be provided in a more timely fashion as this is not part of a national enhanced surveillance programme.

During Quarter 2 (April to June 2018) cases were defined as either:

- Healthcare associated infection or
- Community associated infection

Historically HPS reported CDiff cases based on age ranges 15-64yrs and 65yrs and above but have since changed to the definitions described above.

National *Clostridium difficile* infection surveillance programme

Health Protection Scotland published their quarterly reports on the surveillance of *Clostridium difficile* infections (CDIs) in Scotland, Q2 2018 (April to June 2018).

The following tables and graphs demonstrate NHS Grampian's rate of CDI compared with all other Boards in Scotland, with data broken down for healthcare and community.

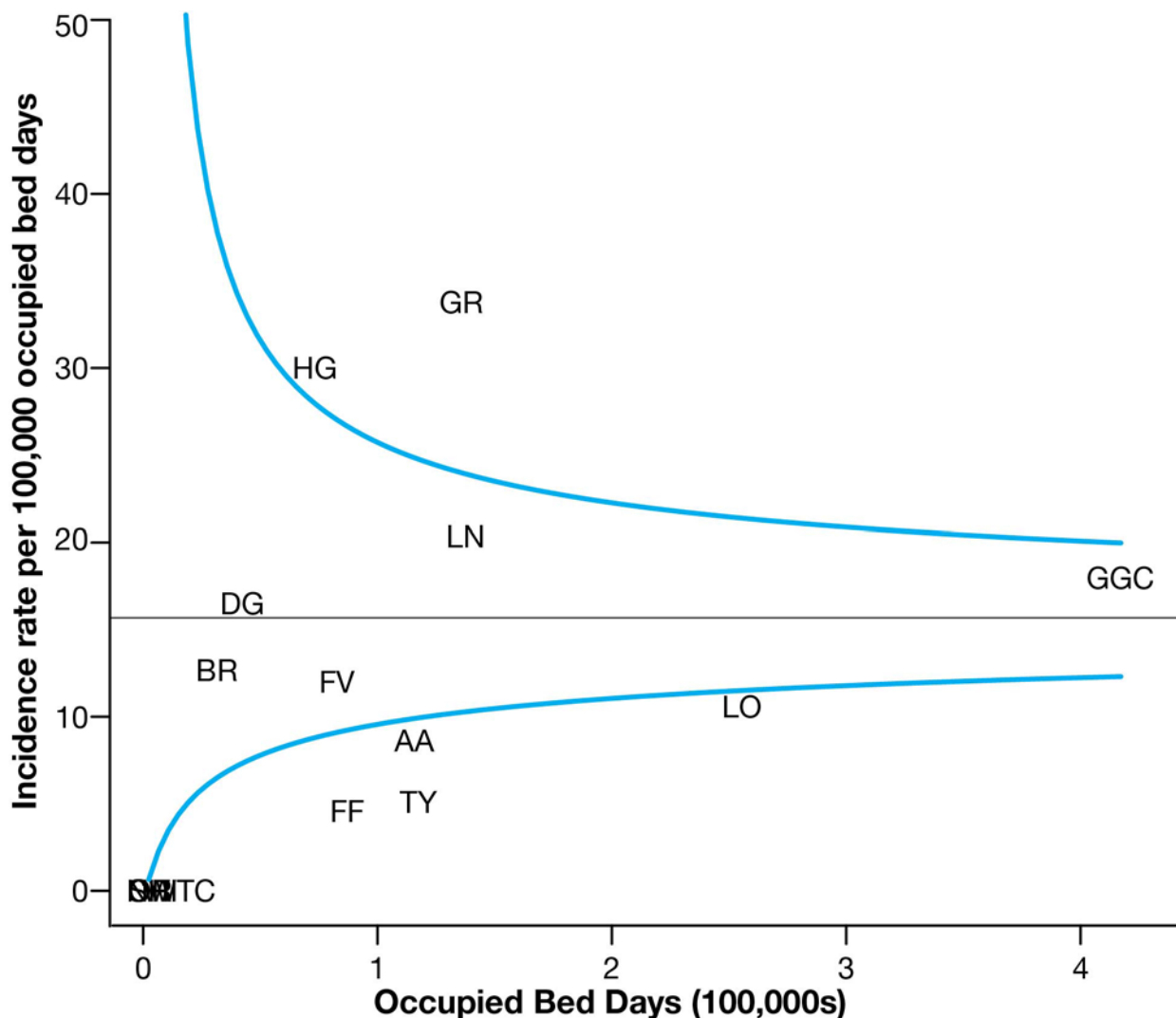
AA	Ayrshire & Arran	HG	Highland
BR	Borders	LO	Lothian
DG	Dumfries & Galloway	LN	Lanarkshire
FF	Fife	NWTC	National Waiting Times Centre
FV	Forth Valley	OR	Orkney
GGC	Greater Glasgow & Clyde	SH	Shetland
GR	Grampian	TY	Tayside
		WI	Western Isles

CDI cases and incidence rates (per 100,000 TOBDs) for healthcare associated infection cases: Q1 2018 (January to March 2018) compared to Q2 2018 (April to June 2018).

NHS Board	Q1 Cases	Q1 Bed Days	Q1 Rate	Q2 Cases	Q2 Bed Days	Q2 Rate
AA	18	122,158	14.7	10	115,914	8.6
BR	4	32,986	12.1	4	31,525	12.7
DG	14	44,662	31.3	7	42,410	16.5
FF	6	91,836	6.5	4	87,527	4.6
FV	1	85,107	1.2	10	83,252	12.0
GR	33	142,190	23.2	46	136,123	33.8
GGC	63	435,205	14.5	75	417,159	18.0
HG	14	75,230	18.6	22	73,332	30.0
LN	20	143,873	13.9	28	137,622	20.3
LO	44	258,580	17.0	27	255,469	10.6
NWTC	2	11,871	16.8	0	12,349	0.0
OR	0	3,683	0.0	0	3,487	0.0
SH	1	2,410	41.5	0	2,417	0.0
TY	13	124,965	10.4	6	117,886	5.1
WI	0	8,190	0.0	0	7,527	0.0
Scotland	233	1,582,946	14.7	239	1,523,999	15.7

- An arrow denotes statistically significant change.
- 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 TOBD) in healthcare associated infection cases for all NHS Boards in Scotland in Q2 2018.



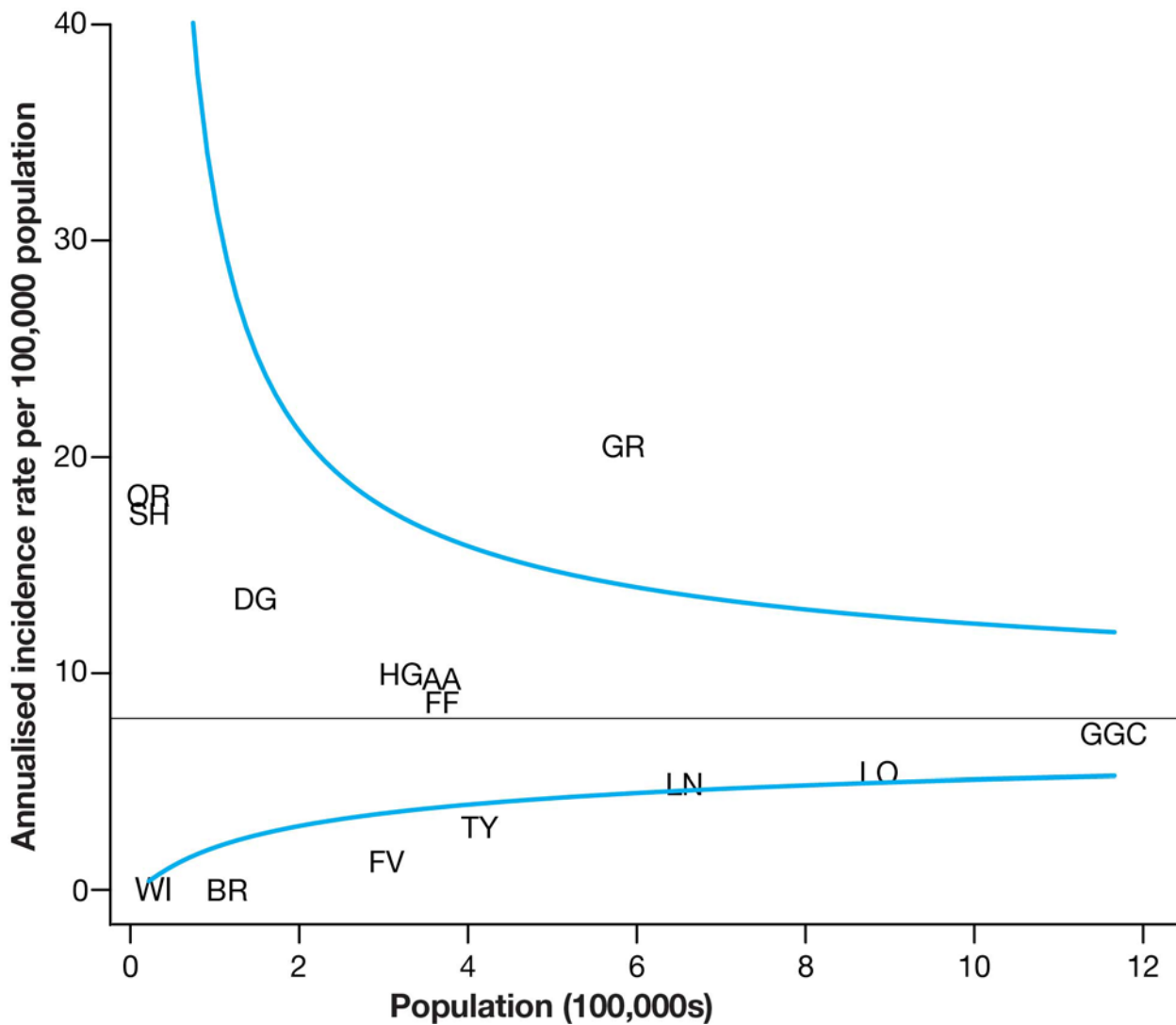
- Source of data is Electronic Communication of Surveillance in Scotland (ECOSS) & Total occupied bed days: Information Services Division ISD(S).
- NHS Orkney, NHS National Waiting Times Centre, NHS Shetlands and NHS Western Isles overlap.

CDI cases and incidence rates (per 100,000 population) for community associated infection cases: Q1 2017 (January to March 2018) compared to Q2 2018 (April to June 2018).

NHS Board	Q1 Cases	Q1 Population	Q1 Rate	Q2 Cases	Q2 Population	Q2 Rate
AA	8	370,410	8.8	9	370,410	9.7
BR	0	115,020	0.0	0	115,020	0.0
DG	4	149,200	10.9	5	149,200	13.4
FF	2	371,410	2.2	8	371,410	8.6
FV	0	305,580	0.0	1	305,580	1.3
GR	11	586,380	7.6	30	586,380	20.5
GGC	18	1,169,110	6.2	21	1,169,110	7.2
HG	14	321,990	17.6	8	321,990	10.0
LN	9	658,130	5.5	8	658,130	4.9
LO	10	889,450	4.6	12	889,450	5.4
OR	1	22,000	18.4	1	22,000	18.2
SH	0	23,080	0.0	1	23,080	17.4
TY	3	416,090	2.9	3	416,090	2.9
WI	1	26,950	15.0	0	26,950	0.0
Scotland	81	5,424,800	6.1	107	5,424,800	7.9

- 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 CDI incidence rates (per 100,000 population) in community associated infection cases for all NHS Boards in Scotland in Q2 2018.



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

The table below gives an overview of the CDiff incidence rates and associated cases in NHS Grampian over the last three years.

	Healthcare associated* CDI			Community associated CDI		
	Cases	Rate per 100 000 bed days	95% CI	Cases	Rate per 100 000 population	95% CI
Mar-15	24	14.9	(9.5 ,22.2)	6	4.1	(1.5 ,9)
Jun-15	22	14.3	(8.9 ,21.5)	9	6.1	(2.8 ,11.6)
Sep-15	22	14.9	(9.3 ,22.5)	14	9.4	(5.1 ,15.8)
Dec-15	38	25.4	(18 ,34.9)	15	10.1	(5.6 ,16.6)
Mar-16	30	19.5	(13.1 ,27.8)	19	13.0	(7.8 ,20.2)
Jun-16	21	14.4	(8.8 ,21.9)	8	5.5	(2.3 ,10.7)
Sep-16	25	17.4	(11.2 ,25.7)	20	13.5	(8.2 ,20.8)
Dec-16	32	22.2	(15.1 ,31.3)	12	8.1	(4.1 ,14.1)
Mar-17	25	17.1	(11 ,25.2)	9	6.2	(2.8 ,11.8)
Jun-17	33	23.7	(16.3 ,33.3)	17	11.6	(6.7 ,18.6)
Sep-17	26	19.0	(12.4 ,27.8)	15	10.1	(5.6 ,16.7)
Dec-17	22	16.0	(10 ,24.2)	7	4.7	(1.8 ,9.7)
Mar-18	33	23.2	(15.9 ,32.5)	11	7.6	(3.7 ,13.6)
Jun-18	46	33.8	(24.7 ,45)	30	20.5	(13.8 ,29.2)

Information on the national surveillance programme for *Clostridium difficile* infections can be found at:

<http://www.hps.scot.nhs.uk/haic/sshaip/resourcedetail.aspx?id=678>

National *Escherichia coli* bacteraemia surveillance programme

Data collection for this programme commenced in 2016.

Escherichia coli continue to be the most frequent cause of Gram-negative bacteraemia in Scotland and is a frequent cause of infection worldwide.

Healthcare associated (HCAI) *E coli* infections are measured as a rate per 100,000 occupied bed days. However, community acquired infections are measured as a rate per population.

In Quarter 2 the rate of HCAI *E coli* infections in NHS Grampian was 28.7 cases per 100,000 occupied bed days compared with 38.0 cases per 100,000 occupied bed days across NHS Scotland. The community *E coli* bacteraemia rate in NHS Grampian was 34.2 cases per 100,000 population compared with 44.1 cases per 100,000 population across NHS Scotland.

E Coli bacteraemia rates in NHS Scotland Q2 (April to June 2018)

	Healthcare associated ECB infection			Community associated ECB infection		
	Cases	Rate per 100 000 bed days	95% CI	Cases	Rate per 100 000 Population	95% CI
Jun-18	579	38.0	(34.9 ,41.2)	597	44.1	(40.6 ,47.8)

E Coli bacteraemia rates in NHS Grampian Q2 (April to June 2018)

	Healthcare associated ECB infection			Community associated ECB infection		
	Cases	Rate per 100 000 bed days	95% CI	Cases	Rate per 100 000 Population	95% CI
Jun-18	39	28.7	(20.3, 39.1)	50	34.2	(25.3 ,45)

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

<http://www.hps.scot.nhs.uk/haic/sshaip/ecolibacteraemia.aspx?subjectid=80#mandatory>

Enhanced *Staphylococcus aureus* Bacteraemia (SAB) Surveillance

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 Nurse and Infection Unit Nurse. The offer of attendance at speciality case review meetings from the IPCT is extended should further discussion be required.

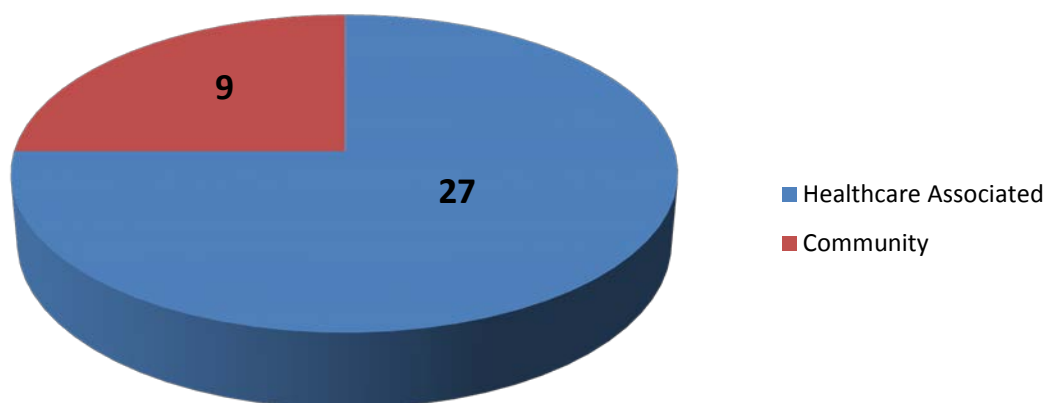
Cases are defined as:

- Healthcare Associated
- Community Associated

The most recent collated results for NHS Scotland demonstrate that during quarter 2, (April to June 2018), within NHS Grampian there were 36 cases of *Staphylococcus aureus* Bacteraemia.

75% of the 36 SAB cases were healthcare associated.

Origin of SAB cases Q2



Of the 27 healthcare associated cases of SAB, 15 patients had the source of their SAB identified as a medical device; PVC, Urinary Catheter, PICC/Midline, Dialysis Line Tunnelled, CVC tunnelled/non tunnelled, PVC. 7 patients had the source of their SAB identified as skin & soft tissue conditions.

Source	Number
Devices (PICC/Midline, PVC, CVC tunnelled/non tunnelled, PEG, urinary catheter)	15
Skin & soft tissue (ulcer, cellulitis, abscess)	7
Surgical Site Infection	3
Other: catheterisation	1
Not known	1

Of the 9 community acquired cases of SAB, 1 patient had the source of their SAB identified as skin soft tissue conditions.

Source	Number
Skin & soft tissue (skin break)	1
Respiratory infection	1
Injection site related to illicit drug use	2
Not known	5

National *Staphylococcus aureus* bacteraemia surveillance programme

Health Protection Scotland published their quarterly reports on the surveillance of *Staphylococcus aureus* bacteraemia (SAB) in Scotland, Q2 2018 (April to June 2018).

The following table and graphs demonstrate NHS Grampian's rate of SABs compared with all other Boards in Scotland.

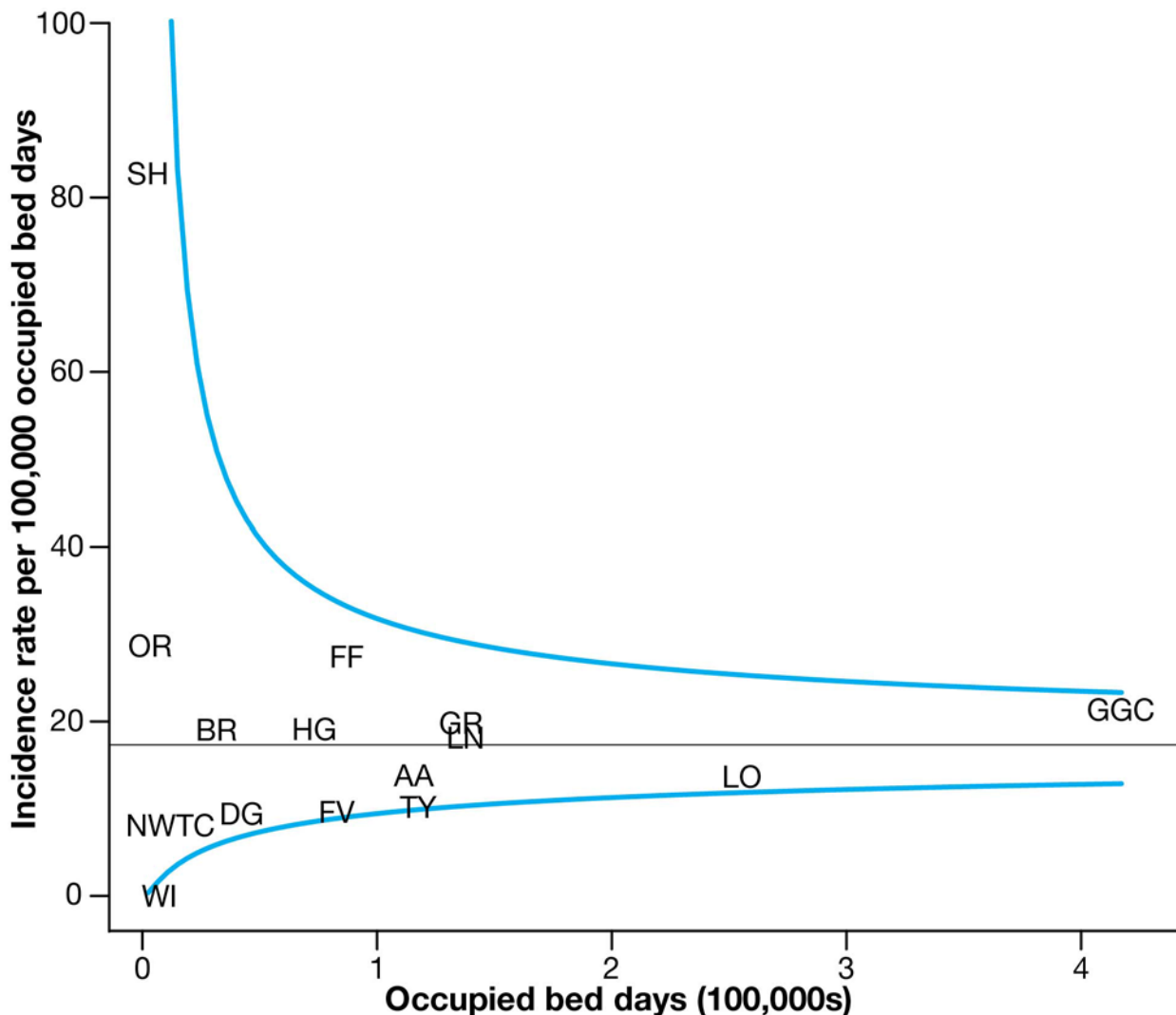
The rate of healthcare associated SABs in NHS Grampian in this quarter remains above the national average in Scotland however the community associated SABs in NHS Grampian in this quarter have decreased and are now well below the national average in Scotland.

SAB cases and incidence rates (per 100,000 TOBDs) for healthcare associated infection cases: Q1 2018 (January to March 2018) and Q2 2018 (April to May 2018).

NHS Board	Q1 Cases	Q1 Bed Days	Q1Rate	Q2 Cases	Q2 Bed Days	Q2 Rate
AA	23	122,158	18.8	16	115,914	13.8
BR	12	32,986	36.4	6	31,525	19.0
DG	2	44,662	4.5	4	42,410	9.4
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LO	40	258,580	15.5	35	255,469	13.7
NWTC	4	11,871	33.7	1	12,349	8.1
OR	0	3,683	0.0	1	3,487	28.7
SH	2	2,410	83.0	2	2,417	82.7
TY	17	124,965	13.6	12	117,886	10.2
WI	2	8,190	24.4	0	7,527	0.0
Scotland	296	1,582,946	18.7	264	1,523,999	17.3

- An arrow denotes statistically significant change.
- Note: Source of data is Electronic Communication of Surveillance in Scotland (ECOSS) & Total occupied bed days: Information Services Division ISD(S)1.
- 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 in Q2 2018.



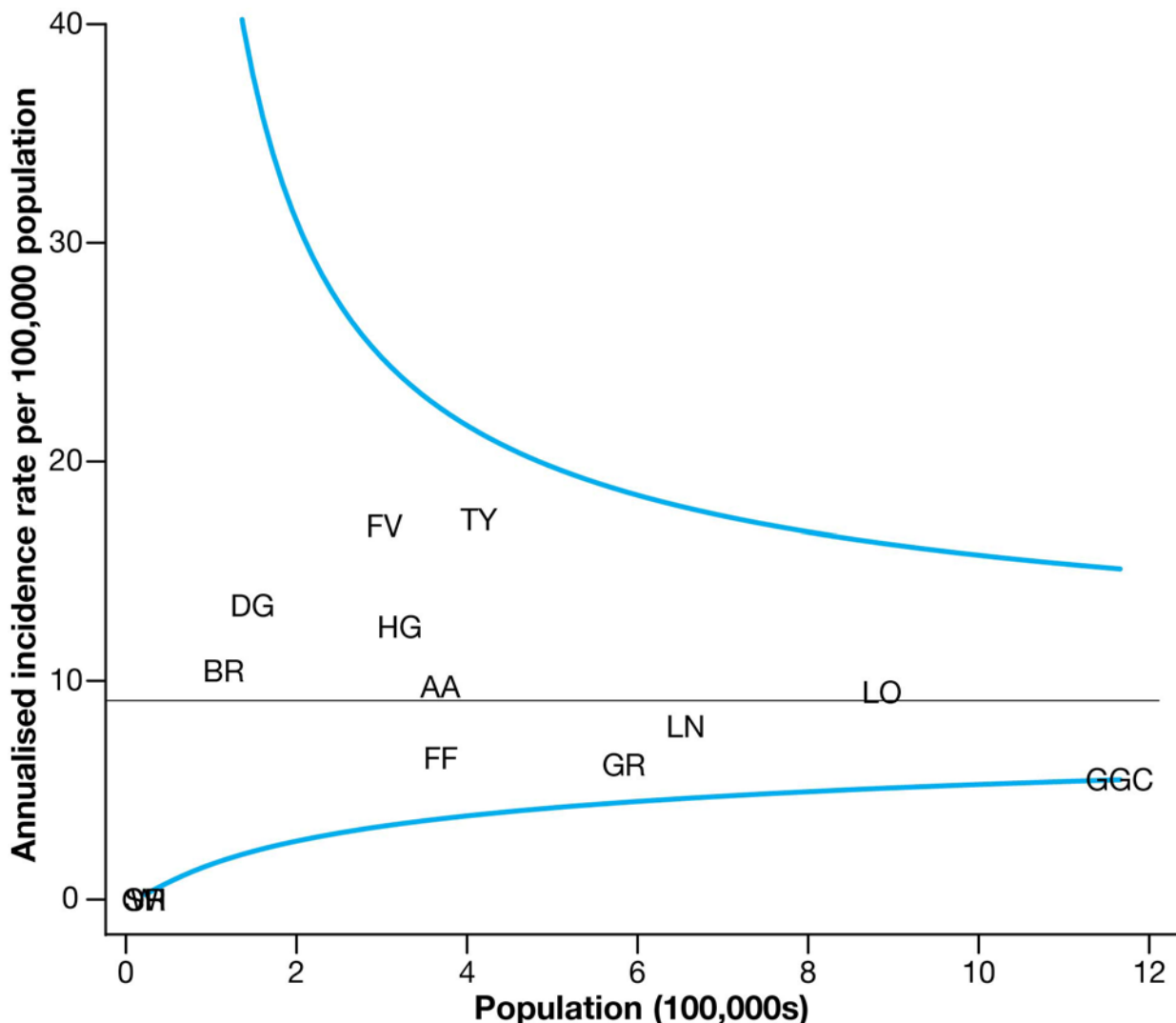
- Source of data is Electronic Communication of Surveillance in Scotland (ECOSS) & Total occupied bed days: Information Services Division ISD(S)1.
- NHS Grampian and NHS Lanarkshire overlap.

SAB cases and incidence rates (per 100,000 population) for community associated infection cases: Q1 2018 (January to March 2018) and Q2 2018 (April to June 2018).

NHS Board	Q1 Cases	Q1 Population	Q1 Rate	Q2 Cases	Q2 Population	Q2 Rate
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DG	7	149,200	19.0	5	149,200	13.4
FF	13	371,410	14.2	6	371,410	6.5
FV	6	305,580	8.0	13	305,580	17.1
GR	15	586,380	10.4	9	586,380	6.2
GGC	18	1,169,110	6.2	16	1,169,110	5.5
HG	12	321,990	15.1	10	321,990	12.5
LN	13	658,130	8.0	13	658,130	7.9
LO	24	889,450	10.9	21	889,450	9.5
OR	0	22,000	0.0	0	22,000	0.0
SH	1	23,080	17.6	0	23,080	0.0
TY	13	416,090	12.7	18	416,090	17.4
WI	1	26,950	15.0	0	26,950	0.0
Scotland	135	5,424,800	10.1	123	5,424,800	9.1

- 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 in Q2 2018.



- 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.

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

<http://www.hps.scot.nhs.uk/haic/sshaip/quarterlyepidemiologicalcommentaries.aspx>

Surgical Site Infection (SSI) Surveillance

NHS Grampian participates in the Surgical Site Infection (SSI) surveillance programme that is mandatory in all NHS boards in Scotland. All NHS boards are required to undertake surveillance for hip arthroplasty and caesarean section procedures as per the mandatory requirements of HDL (2006) 38 and CEL (11) 2009.

Readmission surveillance is carried out using prospective readmission data on orthopaedic procedure categories under inpatient and re-admission surveillance up to 30 days post operatively. Post discharge surveillance until day 10 post operation is also carried out for all caesarean sections performed.

Last available data: Quarter 2 2018 (April to June 2018).

Category of Procedure	Number of operations	Number of Infections	NHS Grampian SSI rate (%)	National dataset SSI rate (%)
Caesarean section	497	6	1.2 %	1.5 %
Hip arthroplasty	294	1	0.3 %	0.8 %

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

<http://www.hps.scot.nhs.uk/haic/sshaip/surgicalsiteinfectionsurveillance.aspx?subjectid=B>

MRSA Screening

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.

CRA compliance for Quarter 2 (July to September 2018) within NHS Grampian was 84%.

Health Board	2017-18 Q3	2017-18 Q4	2018-19 Q1	2018-19 Q2
Grampian	89%	92%	86%	84%
Scotland	88%	83%	84%	84%

Red indicates a decrease from the previous quarter; **green** indicates an increase; black indicates no change.

NB this does not indicate statistically significant change.

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

<http://www.hps.scot.nhs.uk/haic/sshaip/mrsascreeningprogramme.aspx?subjectid=1>

Cleaning and the Healthcare Environment

Health Facilities Scotland National Cleaning Specification Reports

NHS Grampian continues to achieve the required cleanliness standards across all locations as monitored by the Facilities Monitoring Tool.

<u>2nd Quarter July - September 2018</u>	<u>July Domestic</u>	<u>July Estates</u>	<u>August Domestic</u>	<u>August Estates</u>	<u>September Domestic</u>	<u>September Estates</u>	<u>Quarter 2 Domestic</u>	<u>Quarter 2 Estates</u>
NHS Grampian Overall	93.35	95.00	93.85	94.65	93.85	94.65	93.68	94.76
Aberdeen Maternity Hospital, RACH & Outlying Areas	92.70	91.35	92.66	92.00	93.35	90.70	92.90	91.35
Aberdeen Royal Infirmary	92.75	96.10	93.25	96.40	92.95	95.55	92.98	96.01
Aberdeenshire North & Moray Community	93.75	97.20	96.10	94.65	96.35	96.40	95.40	96.08
Aberdeenshire South & Aberdeen City	93.10	96.20	95.70	96.50	94.05	98.50	94.28	97.06
Dr Grays Hospital	92.75	90.90	94.40	91.05	92.70	90.65	93.28	90.86
Royal Cornhill Hospital	95.85	96.55	0.00	0.00	92.05	95.75	93.95	96.15
Woodend Hospital	94.80	98.40	95.65	99.45	94.15	96.05	94.86	97.96

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.

During July, August, and September 2018 there was 1 partial ward closure and 1 complete ward closure in NHS Grampian due to Norovirus and enteric illness symptoms. In July 2018 there were 0 wards partially closed and 0 wards completely closed with Norovirus and enteric illness symptoms. In August 2018 there was 1 ward partially closed and 0 wards completely closed with Norovirus and enteric illness symptoms and 0 staff affected. In September 2018 there were 0 wards partially closed and 1 ward completely closed with Norovirus and enteric illness symptoms and 0 staff affected.

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

<http://www.hps.scot.nhs.uk/giz/norovirusdashboard.asp>

(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.

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 *Clostridium difficile* infections, as well as hand hygiene and cleaning compliance. 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

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

There are national targets associated with reductions in C.diff and SABs. More information on these can be found on the Scotland Performs website:

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

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 – 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§ion=&category=&month=&year=&show=10>

Understanding the Report Cards – ‘Out of Hospital Infections’

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

	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	Jul 2018	Aug 2018	Sep 2018
MRSA	1	1	0	1	0	0	2	0	1	0	0	1
MSSA	11	12	12	20	10	12	13	9	12	9	18	12
Total SABS	12	13	12	21	10	12	15	9	13	9	18	13

Clostridium difficile infection monthly case numbers

	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	Jul 2018	Aug 2018	Sep 2018
Total CDIs (Ages 15+)	11	10	10	9	13	22	19	37	20	22	12	11

Hand Hygiene Monitoring Compliance (%)

	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	July 2018	Aug 2018	Sep 2018
AHP	100	99	99	99	99	99	98	98	98	99	99	98
Ancillary	98	99	97	97	97	97	97	97	96	96	96	96
Medical	95	98	96	97	96	96	96	94	97	99	99	99
Nurse	99	99	99	99	99	99	99	99	99	95	98	97
Total	98	99	98	98	98	98	98	97	98	98	98	98

Cleaning Compliance (%)

	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	Jul 2018	Aug 2018	Sep 2018
Board Total	95	95	95	95	94	94	94	94	94	93	94	94

Estates Monitoring Compliance (%)

	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	Jul 2018	Aug 2018	Sep 2018
Board Total	96	96	96	95	95	95	95	95	95	95	95	95

NHS HOSPITAL A REPORT CARD – Aberdeen Royal Infirmary

Staphylococcus aureus bacteraemia monthly case numbers

	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	Jul 2018	Aug 2018	Sep 2018
MRSA	1	0	0	1	0	0	0	0	0	0	0	0
MSSA	0	4	4	4	4	2	4	1	3	4	3	3
Total SABS	1	4	4	5	0	2	4	1	3	4	3	3

Clostridium difficile infection monthly case numbers

	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	Jul 2018	Aug 2018	Sep 2018
Total CDIs (Ages 15+)	2	1	2	3	2	6	10	7	6	3	5	3

Cleaning Compliance (%)

	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	Jul 2018	Aug 2018	Sep 2018
ARI Total	94	94	94	94	95	93	93	93	94	93	93	93

Estates Monitoring Compliance (%)

	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	Jul 2018	Aug 2018	Sep 2018
ARI Total	96	96	96	96	96	97	97	96	96	96	96	96

NHS HOSPITAL B REPORT CARD – Dr Gray’s Hospital

Staphylococcus aureus bacteraemia monthly case numbers

	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	Jul 2018	Aug 2018	Sep 2018
MRSA	0	0	0	0	0	0	0	0	0	0	0	0
MSSA	0	0	1	1	0	0	1	0	0	0	2	0
Total SABS	0	0	1	1	0	0	1	0	0	0	2	0

Clostridium difficile infection monthly case numbers

	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	Jul 2018	Aug 2018	Sep 2018
Total CDIs (Ages 15+)	1	0	2	1	0	3	0	0	0	0	1	0

Cleaning Compliance (%)

	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	Jul 2018	Aug 2018	Sep 2018
DGH Total	95	94	95	94	93	94	94	94	93	93	94	93

Estates Monitoring Compliance (%)

	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	Jul 2018	Aug 2018	Sep 2018
DGH Total	97	96	95	94	93	94	94	92	93	91	91	91

NHS HOSPITAL C REPORT CARD – Woodend Hospital

Staphylococcus aureus bacteraemia monthly case numbers

	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	Jul 2018	Aug 2018	Sep 2018
MRSA	0	0	0	0	0	0	0	0	0	0	0	0
MSSA	0	0	0	1	0	0	0	0	0	0	0	0
Total SABS	0	0	0	1	0	0	0	0	0	0	0	0

Clostridium difficile infection monthly case numbers

	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	Jul 2018	Aug 2018	Sep 2018
Total CDIs (Ages 15+)	0	0	0	0	1	0	0	0	0	0	0	0

Cleaning Compliance (%)

	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	Jul 2018	Aug 2018	Sep 2018
WGH Total	96	96	95	96	95	95	94	95	94	95	96	94

Estates Monitoring Compliance (%)

	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	Jul 2018	Aug 2018	Sep 2018
WGH Total	96	97	96	96	96	96	95	94	96	98	99	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

	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	Jul 2018	Aug 2018	Sep 2018
MRSA	0	0	0	0	0	0	0	0	1	0	0	0
MSSA	0	0	1	0	1	2	2	0	1	0	0	1
Total SABS	0	0	0	0	1	2	2	0	2	0	0	1

Clostridium difficile infection monthly case numbers

	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	Jul 2018	Aug 2018	Sep 2018
Total CDIs (Ages 15+)	0	2	0	1	0	4	2	1	2	2	1	0

NHS OUT OF HOSPITAL REPORT CARD

Staphylococcus aureus bacteraemia monthly case numbers

	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	Jul 2018	Aug 2018	Sep 2018
MRSA	0	1	0	0	0	0	1	0	0	0	0	0
MSSA	11	8	6	14	5	8	7	8	8	5	13	1
Total SABS	11	9	6	14	5	8	8	8	8	5	13	1

Clostridium difficile infection monthly case numbers

	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	June 2018	Jul 2018	Aug 2018	Sep 2018
Total CDIs (Ages 15+)	8	7	6	4	10	9	7	29	11	17	5	8