

# HAI Quarterly Report July - September2018 NHS Forth Valley Infection Prevention & Control Team

# **Glossary of abbreviations**

Following feedback from stakeholders below is a list of abbreviations used within this report:

- HAI Healthcare Acquired Infection
- SAB Staphylococcus aureus bacteraemia
- DAB Device Associated Bacteraemia
- CDI Clostridium difficile Infection
- LDP Local Development Plan
- NES National Education for Scotland
- IPCT Infection Prevention & Control Team
- HEI Healthcare Environment Inspectorate
- SSI Surgical Site Infection

SICPs – Standard Infection Control Precautions

# Definitions used for Staph aureus and device associated bacteraemia and Clostridium difficile infection

# Staph aureus and device associated bacteraemia

# **Hospital acquired**

 Hospital acquired is defined when a positive blood culture is taken >48 hours after admission ie the sepsis is not associated with the cause of admission. An example would a patient with sepsis associated from an infected peripheral vascular catheter.

# Healthcare acquired

• Healthcare acquired is defined when a positive blood culture is taken <48 hours after admission but has in the last three month had healthcare intervention such as previous hospital admission, attending Clinics, GP, dentist etc. Note this does not necessarily mean that the sepsis is associated with the previous healthcare intervention.

# **Community acquired**

• Community acquired is defined when a positive blood culture is taken <48 hours after admission but has had no healthcare intervention in the last three months.

# Nursing home acquired

• Nursing home acquired is defined when a positive blood is taken <48 hours after admission and when symptoms associated with sepsis developed at the nursing home

### **Clostridium difficile infection**

# **Hospital acquired**

• Hospital acquired is defined when symptoms develop and confirmed by the laboratory >48 hours after admission which were not associated with the initial cause of admission.

### **Healthcare acquired**

• Healthcare acquired is defined as having symptoms that develop and confirmed by the laboratory prior to or within 48 hours of admission and has in the last three months had healthcare interventions such as previous hospital admission, attending Clinics, GP, dentist etc

### **Community acquired**

• Community acquired is defined as having symptoms that develop and confirmed by the laboratory prior to or within 48 hours of admission but has had no healthcare intervention in the last three months.

### Nursing home acquired

• Nursing home acquired is defined as having symptoms that develop and confirmed by the laboratory that developed at the nursing home prior to admission

### LDP TARGETS

### Staphylococcus aureus Bacteraemia (SABs)

Quarterly Total	27
Hospital	7
Healthcare	12
Community	7
Nursing Home	1

Staph aureus bacteraemia total - April 18 to date	48

This quarter has seen an increase in SAB cases compared to the previous quarter where 20 cases were identified. Hospital acquired SABs have increase from one case to 7 cases and healthcare acquired SABs have also increased from 7 cases to 12 cases. There has however, been a decrease in community acquired SABs from 12 cases to 7 cases). The graphs below show all categories remain within two standard deviations with the exception of July where total case numbers and community SABs exceeded two standard deviations.





# SAB breakdown for this month

Source	No of Cases
Community	7
Abscess	1
Osteomyelitis	1
PWID	2
Ulcer	1
Unknown	1
UTI	1
Healthcare	12
Abscess	1
Fistula	1
Implantable device	1
Post procedural	1
Ulcer	2
Unknown	2
Urinary Catheter long term	3
Permacath	1
Hospital	7
PVC	3
Unknown	2
Urinary Catheter long term	1
Wound	1
Nursing home	1
Urinary Catheter long term	1
Grand Total	27

# Ward specific graphs can be accessed using the following link:

http://staffnet.fv.scot.nhs.uk/index.php/a-z/infection-control/monthly-ward-reports/

Quarterly Total	15
Hospital	3
Healthcare	9
Community	3
Nursing Home	0

Clastridium difficila total April 17 to data	28
Clostrialari algicile total – April 17 to date	20

This quarter, there was slight increase of CDIs identified compared to the previous quarter where 13 cases were identified. Case numbers remained within control for this quarter and all were attributed to antimicrobial therapy, with the exception of the community acquired CDIs. NHS Forth Valley continues to have the lowest rate in Scotland.

The graphs below breakdown the CDIs by category.





Ward specific graphs can be accessed using the following link: <a href="http://staffnet.fv.scot.nhs.uk/index.php/a-z/infection-control/monthly-ward-reports/">http://staffnet.fv.scot.nhs.uk/index.php/a-z/infection-control/monthly-ward-reports/</a>

### Device associated Bacteraemia (DABs)

All organisms attributed to a device associated bacteraemia are included in the following data. This surveillance is separate and distinct from our SAB surveillance; however it must be noted that this data will also include *Staph aureus* when associated with a device.

Quarterly Total	27
Hospital	7
Healthcare	14
Nursing Home	6

Device associated bacteraemia total - April 18 to date	47
--	----

The quarter has seen an increase in DABs compared to the previous quarter of 20 cases. Hospital cases remain consistent compared to the previous quarter, however the increase was attributed to healthcare but particularly nursing home DABs. Long term urinary catheters are the most predominant, however, the Continence Service has implemented the urinary catheter passport which enables the patient and HCW to log any issues and to keep a record of catheter change and general maintenance of the catheter.



Healthcare DABs	DAB Breakdown for this quarter	
Healthcare DABs April 14 - Date		
7	Source	No of Cases
6 <b></b>	Healthcare	14
	Hickman	4
	Urinary Catheter long term	8
Healthcare DABs Nos	Permacath	2
2 Sid Dev	Hospital	7
	PVC	3
	Urinary Catheter long term	3
م محمد محمد محمد محمد شرق	Urinary Catheter short term	1
<b>Comments:</b> case numbers remain within control limits. no	Nursing home	6
concerns to raise.	Urinary Catheter long term	5
	Supra Pubic Catheter	1
	Grand Total	27

Ward specific graphs can be accessed using the following link: <a href="http://staffnet.fv.scot.nhs.uk/index.php/a-z/infection-control/monthly-ward-reports/">http://staffnet.fv.scot.nhs.uk/index.php/a-z/infection-control/monthly-ward-reports/</a>

# Hickman Line related sepsis

As mentioned in previous reports, Hickman line sepsis remains the second most predominant device associated bacteraemia in Forth Valley; the majority of infection occurring in the community on average 60 days post insertion. From November 2015, patients will be offered to use a chlorhexidine body wash on a weekly basis for 10 weeks to lower the bacterial skin flora and potentially infection rates.

# Meticillin resistant staphylococcus aureus (MRSA) & Clostridium difficile recorded deaths

The National Records of Scotland monitor and report on a variety of deaths recorded on the death certificate. Two organisms are monitored and reported, MRSA and *C. difficile*. Please click on the link below for further information:

# https://www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/vital-events/deaths

This quarter, there were no deaths where *Clostridium difficile* or MRSA was recorded on the death certificate.

### **Surgical Site Infection Surveillance**



### Estate and Cleaning Compliance (per hospital)

The data is collected through audit by the Domestic Services team using the Domestic Monitoring National Tool and areas chosen within each hospital is randomly selected by the audit tool. Any issues such as inadequate cleaning is scored appropriately and if the score is less than 80% then a re-audit is scheduled. Estates compliance is assessed whether the environment can be effectively cleaned; this can be a combination of minor non-compliances such as missing screwcaps, damaged sanitary sealant, scratches to woodwork etc. The results of these findings are shared with Serco/Estates for repair. Similar to the cleaning audit, scores below 80% triggers a re-audit.

# Forth Valley Royal Hospital

	Oct-Dec	Jan - March	April - June	July - Sept
	2017	2018	2018	18
Cleaning	96	96	96	96
Estates	94	96	98	98

# Clackmannanshire Community Healthcare Centre

	Oct-Dec	Jan - March	April - June	July - Sept
	2017	2018	2018	18
Cleaning	95	94	95	92
Estates	96	95	95	90

# Stirling Community Hospital

	Oct-Dec	Jan - March	April - June	July - Sept
	2017	2018	2018	18
Cleaning	96	96	93	94
Estates	92	89	91	91

# Falkirk Community Hospital

	Oct-Dec	Jan - March	April - June	July - Sept
	2017	2018	2018	18
Cleaning	96	95	95	94
Estates	87	88	88	87

# Bo'ness Hospital

	Oct-Dec	Jan - March	April - June	July - Sept	
	2017	2018	2018	18	
Cleaning	95	92	92	93	
Estates	91	90	90	89	

Bellsdyke Hospital

	Oct-Dec	Jan - March	April - June	July - Sept	
	2017	2018	2018	18	
Cleaning	96	96	96	95	
Estates	83	83	86	84	

< 70%	70% - 90%	> 90%		
Non-Compliant	Partial Compliance	Compliant		

### Incidence/Outbreaks

There have been 4 outbreaks this quarter, Ward 4 (FVRH), Ward 4 (FCH), Ward 3 (FCH) and Strathcarron Hospice. All outbreaks were associated with norovirus.

### Hand Hygiene

### SPSP Hand Hygiene Monitoring Compliance (%) Board wide

Data taken from TCAB (self reported by ward staff)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	August	Sept
	2017	2017	2017	2018	2018	2018	2018	2018	2018	2018	2018	2018
Board Total	99	99	99	99	99	99	99	99	99	99	98	98

### Ward Visit Programme

Due to the change of methodology of the ward visit programme in August there is no quarterly data available.

### Winter Planning & Influenza

### Norovirus

In Forth Valley, norovirus outbreaks are usually limited to the winter months and over the past years very rarely has there been norovirus throughout the summer periods; whether this is an indication of a particularly bad norovirus season it has not been confirmed, however work is underway with the preparations at ward level to ensure disruption due to norovirus is minimal.

### <u>Influenza</u>

Last year saw an unprecedented level of influenza across NHS Forth Valley, however it is anticipated, based on the current Australian influenza levels that this year will see a reduced rate of infection. This years influenza immunisation covers the influenza types that are predicted to affect the UK, however, NHS Forth Valley will again be using the near patient testing PCR machine (based in AAU) to rapidly identify Influenza A, B and RSV.