

# **Infection Prevention and Control Report**

**Quarter 3 (October to December 2023)** 

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#### Abstract

The Infection Prevention and Control (IPC) Team continue to work towards three priorities:

**PRIORITY 1 – Prevent and promote** Antimicrobial Resistance (AMR) by contributing to the National Action Plan by targeted project work in care settings and via health promotional activities.

**PRIORITY 2 – Respond to and reduce** outbreaks of infections in settings and work with partner agencies and stakeholders to reduce the number of outbreaks via health promotion campaigns, training, and auditing.

**PRIORITY 3 – Develop and expand** the IPC workforce, IPC knowledge and IPC best practice across Lancashire and Blackburn with Darwen by offering opportunities for development and foster confidence.

In relation to healthcare associated infections (HCAIs) this quarter, there has been a marked increase in the Blood Stream Infections (BSIs).

In relation to outbreaks within care settings this quarter, there has been an decrease in scabies cases compared to Q2. The IPC Team produced and continually update their Scabies Booklet to assist care settings which is read alongside United Kingdom Health Security Agency (UKHSA) National Guidance. Each setting in a scabies outbreak now also has a named worker for the duration of the outbreak for continuity.

#### Introduction

The purpose of this report is to provide an update on the work of the Infection Prevention Team at Lancashire County Council to the Director of Public Health at Lancashire County Council and how the team is contributing to the wider reduction of HCAIs. The HCAI data is inputted into the Data Capture System by the Acute Trusts and the IPC Team collate this data on behalf of the Health Protection Board.

The report includes the data for HCAIs which are subject to mandatory surveillance and progress towards any trajectories where appropriate.

It is recognised that some infections are inevitable because of healthcare. HCAIs have a significant impact on morbidity and mortality whilst carrying a financial risk due to unscheduled care and prescribing costs. There are many HCAIs, but the national focus is on:

Meticillin resistant Staphylococcus Aureus (MRSA) blood stream infections

Meticillin Susceptible Staphylococcus Aureus (MSSA) blood stream infections

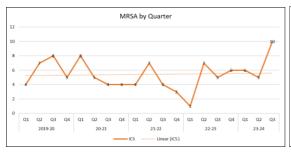
Clostridioides difficile infections (CDI

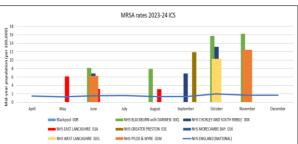
Gram-negative blood stream infections including:

- Escherichia coli (E. coli),
- Pseudomonas and
- Klebsiella

The report will also focus on the IPC Team and the work being undertaken contributing towards the reduction of HCAIs and other infections.

## **MRSA**





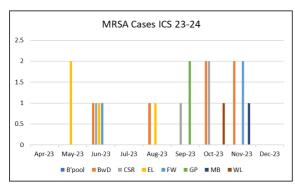
#### **Evaluation:**

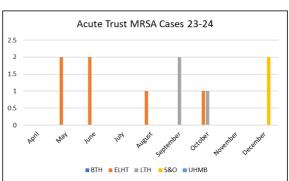
Across the ICS there has been a significant increase in MRSA cases in Q3 and a total of 21 Year to date.

When comparing to North West data there has been a significant increase in Q3 from 17 cases in Q2 to 39 in Q3. This is the highest quarter since 2017.

This increase is also mirrored by the National data, there has also been a significant increase to 253 cases nationally (Q2 204).

The charts below show the areas and months the cases were recorded in.





Post Infection Reviews are undertaken by the Acute Trusts for hospital cases and the Integrated Care Board (ICB) for community cases.

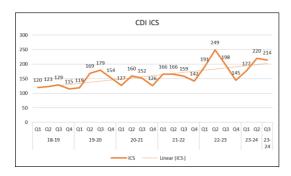
Learning is shared and may lead to targeted work for the IPC Team.

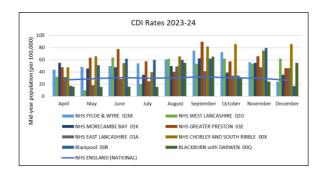
#### **IPC Team Focus:**

Specific AMR Forum delivered for care settings. See workstream section below for further information.

Promoting hand hygiene and the use of standard precautions during communications with care settings and when undertaking audits.

## **Clostridioides Difficile**





#### **Evaluation:**

Across the ICS there has been a slight decrease in CDI cases in Q3, however the rates are still high compared to the national rate.

When comparing to North West data, and the National data the ICS is following the same trend there has been a decrease in Q3.

CDI data	Apr- 23	May- 23	Jun- 23	Jul-23	Aug- 23	Sep- 23	Oct- 23	Nov- 23	Dec- 23	Total	Objective to Date	Breach
B'pool	2	6	7	7	7	7	4	9	2	51	61	
BwD	2	2	2	2	7	8	4	3	7	37	25	45%
CSR	7	10	8	6	10	12	13	11	13	90	50	82%
EL	10	6	9	8	16	13	11	15	14	102	52	97%
FW	7	8	8	9	10	12	12	9	4	79	64	23%
GP	8	11	13	10	7	15	10	11	7	92	64	43%
MB	15	13	13	10	14	17	11	15	0	108	109	
WL	3	1	6	2	6	5	6	5	6	40	21	91%
Total	54	57	66	54	77	89	71	78	63	609	446	37%
Percentage change from last year	-2%	-2%	-7%	-14%	-16%	-10%	-10%	-7%	-5%	-		

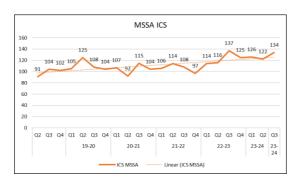
CDI data	Apr- 23	May- 23	Jun- 23	Jul-23	Aug- 23	Sep- 23	Oct- 23	Nov- 23	Dec- 23	Total	Objective to Date	Breach
BTH	3	5	9	8	8	10	8	8	3	62	67	
ELHT	7	4	2	4	6	11	7	7	12	60	40	51%
LTH	16	17	19	13	19	25	20	23	16	168	91	85%
S&O	2	0	4	2	5	5	6	4	6	34	29	16%
UHMB	12	6	6	5	8	7	4	13	5	66	62	6%
Total	40	32	40	32	46	58	45	55	42	390	289	35%
Percentage change from last year	11%	6%	-4%	-14%	-14%	-7%	-8%	-3%	0%	-		

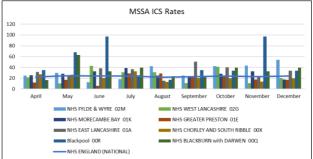
Post Infection Reviews are undertaken by the Acute Trusts for hospital cases and the ICB for community cases.

Learning is shared and may lead to targeted work for the IPC Team.

**IPC Team Focus:** Delivering Fundamentals of IPC forums covering environmental cleaning and chain of infection. Promoting hand hygiene and the use of standard precautions during communications with care settings and when undertaking audits.

# Meticillin Susceptible Staphylococcus Aureus (MSSA)





#### **Evaluation:**

Across the ICS there has been an increase in Q3.

When comparing to Northwest data, the ICS is following the same trend, both North West data and National data show an increase in Q3.

MSSA data	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Total
B'pool	4	8	11	3	2	4	4	11	4	51
BwD	2	8	4	5	3	3	5	4	5	39
CSR	4	4	3	5	2	3	3	2	3	29
EL	10	8	12	12	5	16	13	7	11	94
FW	4	5	2	3	7	4	0	0	0	25
GP	2	3	1	5	5	4	0	0	0	20
MB	7	8	9	11	7	6	0	0	0	48
WL	2	1	4	3	3	1	0	0	0	14
Total Hospital onset	17	25	17	27	16	19	23	18	23	185
Total Community Onset	18	20	29	20	18	22	27	22	19	195
Total	35	45	46	47	34	41	48	40	42	378
Percentage change from last year	-5%	8%	11%	18%	7%	8%	9%	6%	3%	-

MSSA data	Apr- 23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Total
BTH	4	7	6	3	3	3	6	15	4	51
ELHT	7	9	5	11	6	8	8	5	7	66
LTH	2	5	1	9	4	1	5	2	4	33
S&O	1	0	3	2	0	3	5	0	2	16
UHMB	3	4	3	1	3	5	5	9	2	35
Total	17	25	18	26	16	20	29	31	19	201
Percentage change from last year	-6%	17%	7%	21%	9%	12%	18%	17%	13%	-

Post Infection Reviews are not routinely completed for MSSA by the Acute Trusts or the ICB.

#### **IPC Team Focus:**

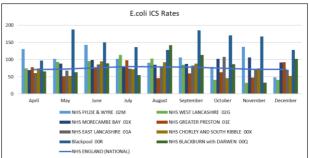
Specific AMR Forum delivered for care settings. See workstream section below for further information.

Promoting hand hygiene and the use of standard precautions during communications with care settings and when undertaking audits.



## E.coli





#### **Evaluation:**

Across the ICS there has been a decrease in cases in cases in Q3.

When comparing to North West and National data, the ICS is following the same trend, both North West data and National data show a significant decrease in Q3.

E.Coli data	Apr- 23	May- 23	Jun- 23	Jul-23	Aug- 23	Sep- 23	Oct- 23	Nov- 23	Dec- 23	Total	Objective to Date	Breach
B'pool	11	22	17	16	15	21	20	19	15	156	75	108%
BwD	8	8	11	7	18	14	11	4	13	94	75	25%
CSR	11	8	14	11	14	13	7	11	8	97	86	13%
EL	19	22	27	24	26	26	35	23	23	225	195	15%
FW	21	17	23	17	15	17	13	22	8	153	91	67%
GP	13	9	13	17	8	10	11	8	16	105	91	16%
MB	19	25	27	22	24	24	29	29	26	225	176	28%
WL	7	9	9	11	10	8	4	3	4	65	61	6%
Total Hospital onset	52	60	48	45	55	53	45	52	39	455		
Total Community Onset	57	60	93	80	75	80	85	67	74	671		
Total	109	120	141	125	130	133	130	119	113	1126	850	33%
Percentage change from last year	8%	6%	15%	13%	12%	14%	14%	15%	15%	-		

E. Coli data	Apr- 23	May- 23	Jun- 23	Jul- 23	Aug- 23	Sep- 23	Oct- 23	Nov- 23	Dec- 23	Total	Objective to Date	Breach
BTH	15	18	13	14	13	19	14	17	6	129	64	100%
ELHT	11	11	16	8	15	14	13	10	11	109	97	13%
LTH	7	11	10	10	8	8	6	7	6	73	71	3%
S&O	3	9	4	6	5	7	3	4	3	44	36	22%
UHMB	11	14	7	3	13	6	7	11	11	83	73	14%
Total	47	63	50	41	54	54	43	49	37	438	341	28%
Percentage change from last year	31%	13%	7%	4%	7%	13%	7%	7%	4%	-		

Post Infection Reviews are not routinely completed for E.coli by the Acute Trusts or the ICB.

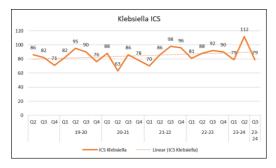
#### **IPC Team Focus:**

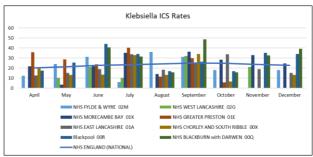
Delivering Hydration Heroes Sessions across day services. See workstreams section for further information.

Promoting hand hygiene and the use of standard precautions during communications with care settings and when undertaking audits.



# Klebsiella spp.





#### **Evaluation:**

Across the ICS there has been a significant decrease in cases in Q3 compared with Q2.

When comparing to North West and National data, the ICS is following the same trend, both North West data and National data show a slight decrease in Q3.

Klebsiella data	Apr- 23	May- 23	Jun- 23	Jul-23	Aug- 23	Sep- 23	Oct- 23	Nov- 23	Dec- 23	Total	Objective to Date	Breach
B'pool	2	3	5	4	2	3	2	4	4	29	25	17%
BwD	0	0	5	4	2	6	2	4	5	28	22	29%
CSR	3	2	2	5	2	5	1	0	2	22	19	18%
EL	4	5	6	11	6	8	11	6	5	62	41	53%
FW	2	4	5	1	6	5	3	0	3	29	28	2%
GP	6	5	4	7	2	5	1	0	0	30	25	18%
MB	6	1	6	10	4	10	8	9	7	61	37	66%
WL	0	1	2	1	0	3	0	2	0	9	14	
Total Hospital onset	11	9	15	18	10	20	14	14	11	122		
Total Community Onset	12	12	20	25	14	25	14	11	15	148		
Total	23	21	35	43	24	45	28	25	26	270	211	28%
Percentage change from last year	-4%	-23%	-2%	18%	12%	13%	4%	4%	4%	-		

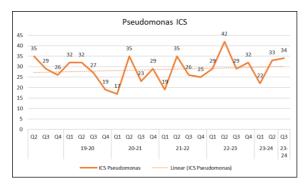
Klebsiella data	Apr- 23	May- 23	Jun- 23	Jul-23	Aug- 23	Sep- 23	Oct- 23	Nov- 23	Dec- 23	Total	Objectiv e to Date	Breach
BTH	2	4	3	2	3	2	3	2	4	25	31	
ELHT	0	2	4	5	4	8	3	5	4	35	31	14%
LTH	5	2	2	5	0	4	2	0	1	21	19	12%
S&O	0	2	2	1	2	2	2	2	1	14	10	44%
UHMB	4	0	2	5	3	5	5	8	4	36	15	141%
Total	11	10	13	18	12	21	15	17	14	131		
Percentage change from last year	-21%	-19%	-11%	16%	16%	16%	8%	9%	11%	-		

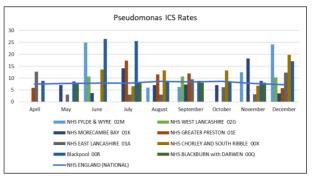
Post Infection Reviews are not routinely completed for Klebsiella by the Acute Trusts or the ICB.

### **IPC Team Focus:**

Delivering Fundamentals of IPC forums covering environmental cleaning and chain of infection. Promoting hand hygiene and the use of standard precautions during communications with care settings.

# **Pseudomonas Aeruginosa**





#### **Evaluation:**

Across the ICS there has been a slight increase in cases in Q3.

When comparing to North West, the ICS is following the same trend, However National data shows a slight decrease in Q3.

Pseudo data	Apr- 23	May- 23	Jun- 23	Jul- 23	Aug- 23	Sep- 23	Oct- 23	Nov- 23	Dec- 23	Total	Objective to Date	Breach
B'pool	1	1	3	3	1	1	1	1	2	14	5	168%
BwD	0	1	0	1	0	1	0	1	0	4	3	35%
CSR	0	0	2	1	2	0	2	1	3	11	10	
EL	4	1	0	1	1	3	2	1	4	17	10	75%
FW	0	0	4	0	1	1	0	2	4	12	10	
GP	1	0	0	3	2	2	0	0	1	9	7	20%
MB	0	2	1	4	2	2	2	5	1	19	15	27%
WL	0	0	1	0	0	1	0	0	1	3	6	
Total Hospital onset	3	3	8	6	7	8	5	7	6	53		
Total Community onset	3	2	3	7	2	3	2	4	10	36		
Total	5	4	8	10	8	10	6	10	14	75	66	14%
Percentage change from last year	-14%	-21%	-24%	-10%	-21%	-23%	-26%	-21%	-11%	ı		

Pseudo data	Apr- 23	May- 23	Jun- 23	Jul-23	Aug- 23	Sep- 23	Oct- 23	Nov- 23	Dec- 23	Total	Objective to Date	Breach
BTH	0	0	5	1	1	1	0	3	2	13	14	
ELHT	3	2	0	1	1	1	1	0	1	10	5	92%
LTH	0	0	0	2	3	4	0	0	2	11	9	22%
S&O	1	0	1	1	1	0	0	0	0	4	4	8%
UHMB	0	1	0	2	2	2	1	4	1	13	7	93%
Total	4	3	6	7	8	8	2	7	6	51	38	34%
Percentage change from last year	300%	-22%	-38%	-29%	-28%	-23%	-30%	-25%	-20%	-		

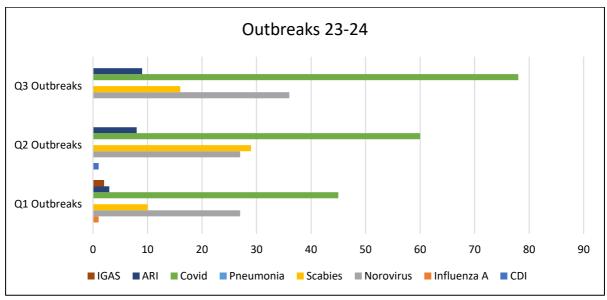
Post Infection Reviews are not routinely completed for Pseudomonas Aeruginosa by the Acute Trusts or the ICB.

## **IPC Team Focus:**

Delivering Fundamentals of IPC forums covering environmental cleaning and chain of infection. Promoting hand hygiene and the use of standard precautions during communications with care settings.

#### **Outbreaks**

Number of active outbreaks within care settings in Lancashire and Blackburn with Darwen by month



There has been an increase in the number of COVID-19 outbreaks compared to last quarter. There has been a decrease in scabies outbreaks across the ICS, the team have worked with providers to giving advice on managing the outbreaks.

There has been a slight increase in ARI which is usually the case throughout the winter months.

#### **IPC Team Focus:**

Outbreaks of scabies decreased in quarter 3 in comparison to quarter 2.

The team have produced several resources to assist care settings managing their scabies outbreaks to include:

- a booklet which has been produced based on <u>UKHSA National Guidance</u> which includes detailed information regarding cleaning, laundry and line listing information for both confirmed cases of residents and staff
- an agreed process with the IPC Team at the ICB detailing when to escalate cases
- settings now also have a named worker from LCC IPC Team providing continuity during the whole of the outbreak. The same named worker will also chair any Incident Management Team (IMT) Meetings if required.
- A bitesize video detailing how to apply the topical treatment correctly. This video is sent to settings reporting an incident or outbreak.

The team have produced a bitesize video to support influenza outbreaks in care settings, promoting the vaccine and recognising the signs and symptoms.

#### IPC work streams & observations

#### **Forums**

#### **Fundamentals of IPC Forum**

These forums are currently held every 6 weeks and are available for anyone working within a care setting to attend. They are aimed at new members of staff or staff wishing to complete a refresher session.

The aims of the sessions are for participants to:

- Understand the chain of infection and how it can be broken.
- Familiarisation of standard precautions
- Build upon knowledge of how infections can be prevented/controlled.

There were 9 attendees in Q3.

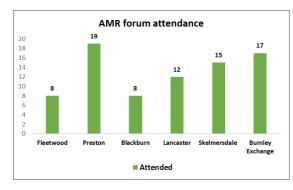
#### **AMR Forum**

The aim of the forum was to cover the essentials for the induction of new staff whilst also being a useful refresher for existing staff. It focussed on AMR and the UK's 20-year vision and the role that care staff can play.

The forum objectives were:

- Introduction to Antimicrobial resistance (AMR)
- Causes of AMR?
- How does AMR spread?
- AMR- the problem?
- Prevention and control
- What can we do to help?

Attendance over the 6 sessions is collated below. The overall feedback was 100% positive.





## **Domiciliary care forum**

The team have undertaken the first session aimed at staff who provide care for people living in their own homes in the community. It included the standard precautions to prevent and manage infections including PPE, Hand Hygiene, Oral Health, Hydration and Catheter Care, 7 domiciliary care providers attended the first session in Q3. There is a further session planned in Q4, feedback will be collated once this has been completed.

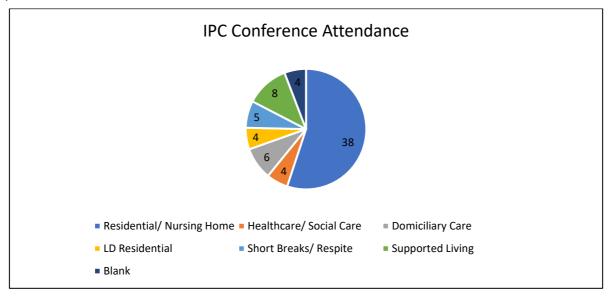
#### LCC IPC Conference 2023

The LCC IPC conference was held on Friday 20th October, the day was a success.

All tickets sold out, however some did not attend due to outbreak status of setting. There was a total of 69 attendees.

Speakers attended from NWAS, Morecambe Bay NHS and LTHTR, and a series of workshops were run by the IPC team.

There was a good representation from each area of Lancashire and BwD. The different care providers can be seen in the chart below.



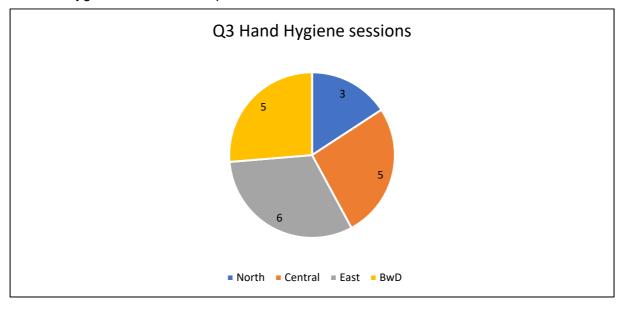
The feedback from the attendees was very positive, all workshops were scored between 1-5 (5 being very useful). All workshops had an average score of 4.66 or higher.

Overall conference satisfaction was very good -70.7% very satisfied, 26.8% satisfied and 2.4% (1 response) somewhat satisfied. None were 'not satisfied' or 'not at all satisfied'

## **Hand Hygiene School Awareness Sessions**

These sessions are free for schools to book directly with the team and are available to primary schools from Reception to Year 6. Sessions are differentiated dependent on Key Stage and a PowerPoint presentation has been developed to share with class teacher prior to the visit.

19 hand hygiene sessions took place in Q3 across Lancashire and BwD.



## **Hydration Sessions**

There have been 2 Hydration Heroes session taken place in Q3 at 2 day care services. These were held to raise awareness of hydration and recognising the signs of dehydration, prevent UTI's and in turn reduce E.coli infections. The sessions have all received 100% positive feedback.

## **Audits**

The IPC team have prioritised audits of care homes in the following areas:

- A CQC rating of 'inadequate' or 'requires improvement'
- Homes that have previously received a 'red' RAG rated IPC Audit and,
- Care homes with no previous IPC Audit.

		North - 1	2		Central -	11		East - 12	2		BwD - 3	
I	Red	Amber	Green	Red	Amber	Green	Red	Amber	Green	Red	Amber	Green
	1	4	7	2	2	2 7		1	11			3

# **Highlights for Quarter 4**

## **Restore 2 training**

Sessions will include an overview of Sepsis/RESTORE2, focusing on recognising the early signs of deterioration, supporting decision making and promoting effective communication between health care providers. It is aimed at clinical/nonclinical staff who have responsibility for undertaking resident observations, to expand their knowledge around Sepsis /RESTORE2 and help them understand the diagnosis, treatment, and management.

## **IPC Outbreak Management Forum**

Outbreak management sessions will be covering CDI, ARI, Scabies & iGas. This would be suitable for senior carers who deal with the management of residents inc. reporting, collating clinical reviews, screening, treatment.

## **IPC and Leadership Training for Care Home Managers**

The IPC team are offering a free pilot short course on leadership to care home managers, helping them to improve skills in others. The course will lead on to using the skills for an IPC innovation supported by the IPC team.

#### Conclusion

The report has highlighted good practice in relation to the Hydration Heroes work undertake and being selected to present at a National Conference and the targeted work to support care settings in outbreaks of scabies.

Acute Trust have developed action plans to reduce infections that have seen an increase from an acute perspective and the action plan presented at their Infection Prevention and Control Committee Meetings for oversight and scrutiny.

The IPC Team will continue to support stakeholders and partners whilst working towards the three priorities outlined at the start of this report.



# Glossary - Appendix 1

## Infections under mandatory surveillance:

## Clostridioides difficile (CDI)

*Clostridioides* difficile, formerly known as *Clostridium* difficile, is a spore-forming bacterium found in 3% of healthy people who are asymptomatic.

Clostridioides difficile infection (CDI) is the biggest cause of infectious diarrhoea in hospitalised patients and is caused by the production of toxins due to the disturbance of the normal intestinal flora, often from antibiotic treatment. Those at most risk of developing CDI includes the elderly and immunocompromised people.

Surveillance of *Clostridioides* difficile infections was introduced in 2004 for patients aged 65 years and over. This was extended to include all cases in patients aged 2 years and over in April 2007.

The NHS Standard Contract 2022/23 includes quality requirements for NHS Trusts to minimise rates of *Clostridioides* difficile infections.

## **Gram-negative bacteria**

Gram-negative bacteria are bacteria that do not retain the crystal violet dye in the Gram stain protocol. The organisms are often resistant to many commonly used antibiotics.

The significant organisms are *Escherichia* coli (E. coli), Klebsiella spp., and Pseudomonas aeruginosa. Mandatory surveillance of *Escherichia* coli (E. coli) bloodstream infections was introduced in June 2011, following increases observed by UKHSA's voluntary surveillance and a recommendation from the Advisory Committee on Antimicrobial Prescribing, Resistance and Healthcare Associated Infection (APRHAI). In April 2017, Klebsiella spp. and Pseudomonas aeruginosa bacteraemia were also added.

This mandatory surveillance supports the Government's ambition to reduce the number of Gram-negative bloodstream infections by 50% by the end of the financial year 2023 to 2024.

#### Escherichia coli

Escherichia coli cause a range of infections including urinary tract infections and bloodstream infections.

#### Klebsiella species

Klebsiella species (spp.) belong to the Enterobacteriaceae family. They are commonly found in the environment and in the human intestinal tract (where they do not normally cause disease). These species can cause a range of healthcare-associated infections, including pneumonia, bloodstream infections, wound or surgical site infections and meningitis.

#### Pseudomonas aeruginosa

Pseudomonas aeruginosa (P. aeruginosa) is often found in soil and ground water. It causes a wide range of infection in those with a weakened immune system, such as, those with cancer and diabetes. In hospitals, the organism can contaminate devices that are left inside the body, such as respiratory equipment and catheters. It is sometimes associated with contaminated water.

#### Staphylococcus aureus

Staphylococcus aureus (S. aureus) is a bacterium that commonly colonises human skin and mucosa without causing any problems. If the bacteria have an opportunity to enter the body (medical device/broken skin) they can cause disease such as skin and wound infections, joint infections, pneumonia and blood stream infections.

Most strains of S. aureus are sensitive to the more commonly used antibiotics, and infections can be effectively treated. There are two types of S. aureus strains:

- Meticillin susceptible Staphylococcus aureus (MSSA) is a strain of Staphylococcus aureus that is sensitive to the antibiotic methicillin.
- Meticillin resistant Staphylococcus aureus (MRSA) is a strain of Staphylococcus aureus that is resistant to the antibiotic meticillin. MRSA infections often require different types of antibiotics to treat them.

There is a zero tolerance for MRSA bloodstream infections. There was a considerable decrease in the rate of reported MRSA blood stream infections following the introduction of mandatory surveillance in April 2007 until 2014. The rate has remained stable since then.

MRSA and MSSA only differ in their degree of antibiotic resistance: other than that, there is no real difference between them.

#### Terms:

BSI Blood stream infection/bacteraemia is an invasion of the bloodstream by

bacteria. This may occur through a wound or infection, or through a surgical

procedure or injection.

**COCA** Community-onset, community associated.

**COHA** Community-onset, healthcare associated.

**COIA** Community-onset, indeterminate association.

Data Capture System. Web-based system where patient-level mandatory

surveillance data is collected.

**HCAI** Healthcare associated infections.

**HOCA** Hospital-onset, community acquired.

**HOHA** Hospital-onset, healthcare acquired.

PIR Post Infection Review. The aim of the PIR process is to help identify any

critical points and contributory factors leading to certain infections or

outbreaks.

**Trajectory** Trusts are required under the NHS Standard Contract 2022/23 to minimise

rates of both CDI and of Gram-negative bloodstream infections. Each NHS Trust and former CCG have their own trajectory. For CDI infections this is

referred to as

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