

# Infection Prevention, Flu and Sepsis Team

## Annual Report 2018/19



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## **Foreword by Chief Nurse/Director of Infection Prevention and Control (DIPC)**

### **Infection Prevention and Control Annual Report 2018-19**

This Annual report covers the period 1st April 2018 to 31st March 2019 and has been written in line with the ten criteria as outlined in the Health and Social Care Act 2008 Code of Practice in the Prevention and Control of Infection (updated 2015). The ten criteria outlined in the code are used by the Care Quality Commission to judge a registered provider on how it complies with Cleanliness and Infection Prevention & Control requirements detailed in the legislation.

The 2018/19 proved to be another busy and challenging year for the Infection Prevention, Flu & Sepsis Team. The UK saw a significant number of influenza cases during this winter, and UHNM was no exception with a significantly high number of cases presenting to the emergency portals, which was additional to the other pressures on the Trust from acutely unwell patients.

MRSA bacteraemia, Clostridium difficile and antimicrobial audits remains a high priority for the Trust, alongside the gathering of information from: Root Cause Analysis, Post Infection Reviews and listening to front line staff which has helped in developing action plans and programmes of work to target areas in order to make a difference by improving patient safety/outcomes.

The Infection Prevention, Flu & Sepsis Team (IPT) structure is now embedded within our organisation, focusing on prevention and supporting our front-line colleagues to optimise the safety of our patients.

Healthcare associated infections remains high on the media and political agenda, being seen as a visible and unambiguous indicator of quality and safety of patient care. The infection prevention agenda faces many challenges including the ever increasing threat from antimicrobial resistant micro-organisms, growing service development, national guidelines and targets/outcomes. The Secretary for Health launched an important ambition to reduce Gram negative blood stream infections by 50% by 2021. UHNM is working closely with the Health Economy colleagues to achieve this and a Senior Sister within the IP Team is dedicated to drive the UHNM action plan to reduce E. coli blood stream infections. This is reviewed bi-monthly by myself at the Infection Prevention and Control Committee.

The IPT do not work in isolation; the successes over the last year are due to the commitment to infection prevention that is demonstrated at all levels within the organisation. It is crucial that this commitment continues to ensure that high standards are maintained. I would like to thank everyone, in this my last year at UHNM, for the part they have played in achieving and sustaining the significant reductions in avoidable infections, and improving safety for our patients over the last decade. The emphasis continues to be on sustaining and improving outcomes for 2019-2020.



Liz Rix  
Chief Nurse and Director of Infection Prevention and Control (DIPC)



## Key Achievements of 2018-19

- Embedded Sepsis Team which underpins the vital work in improving patient outcomes through the prevention, early identification and treatment of sepsis.
- Continued sepsis awareness, education kiosks audits and spot checks. Awareness campaign for staff and public on World Sepsis day held September 2018.
- Sepsis e –learning package released for healthcare workers.
- 8,030 influenza vaccines have been given which is the highest ever number of staff vaccinated at UHNM.
- The target set by NHS England for Trust acquired *Clostridium difficile* cases at UHNM 2018-19 was 81. UHNM reported a total of 56 cases which is a 21% reduction on the previous year (2017/18) and well within the target of 81 set for the period covered by this report.
- Introduction of an antibiotic resistant organism nurse to continue with initiatives to raise awareness, identification, screening and patient care related to antibiotic resistance organisms
- Building upgrade projects to provide modern facilities to treat our patients which help infection prevention, improve patient experience and in some cases reduce unnecessary stay in hospital.
- Trust wide “save our sinks” campaign.
- Strengthening of the theory and practice of Aseptic Non Touch Technique (ANTT) took place; Standardising aseptic technique reduces variability in practice and better protects patients from preventable healthcare associated infection.
- ANTT theory package and competency assessment added to Electronic Staff Record (ESR) teaching programme
- Gram negative blood stream infection (BSI) reduction action plan in place. Action plan formally reviewed monthly and shared with National NHSi Lead.
- The Trust has been successful in bidding to be part of the “ mouth care matters” national programme which focuses on improving oral care for patients in healthcare setting , which is part of the Gram negative BSI plan.
- There is a Health Economy approach to Infection Prevention which included sharing best practice and discussing trends in antimicrobial prescribing and any related actions.
- A collaborative work ethos with commissioners in relation to MRSA bacteraemia and *Clostridium difficile* infection root causes continued.



## Abbreviations

AMR	Anti-Microbial Resistance
ASG	Antimicrobial Stewardship Group
CCG	Clinical commissioning groups
<i>C difficile</i>	<i>Clostridium difficile</i>
CCG	Clinical Commissioning Group
CDI	<i>Clostridium difficile</i> infection
CQC	Care Quality Commission
CQUIN	Commissioning for Quality and Innovation Payment Framework
DH	Department of Health
DIPC	Director of Infection Prevention & Control
E coli	<i>Escherichia coli</i>
ESR	Electronic Staff Record
ESBL	Extended Spectrum Beta Lactamase
GDH Ag	Glutamate dehydrogenase antigen of <i>C. difficile</i>
GRE	Glycopeptide Resistant Enterococcus
HCAI	Health Care Associated Infection
ICD	Infection Control Doctor
IM&T	Information & Technology
IP	Infection Prevention
IPCC	Infection Prevention and Control Committee
IPN	Infection Prevention Nurse
IPT	Infection Prevention Team
IV	Intravenous
MDT	Multi-Disciplinary Team
MGNB	Multi resistant Gram negative bacilli
MHRA	Medicines and Healthcare Products Regulatory Agency
MRSA	Meticillin Resistant <i>staphylococcus aureus</i>
MSSA	Meticillin Susceptible <i>staphylococcus aureus</i>
OPAT	Outpatient Parenteral Antibiotic Therapy
PCR	Polymerase Chain Reaction
PFI	Private Fund Initiative
PHE	Public Health England
PLACE	Patient-led assessments of the Care environment
PPE	Personal Protective Equipment
RAG	Red, amber, green
RCA	Root Cause Analysis
RSUH	Royal Stoke University Hospital
SPP	Species
SSI	Surgical Site Infection
TEC	Trust Executive Committee
UHNM	University Hospitals of North Midlands
VNTR	Variable-number tandem-repeat
VCTM	UHNM on line learning

## Introduction

This report summarises the combined activities of the Infection Prevention, Flu & Sepsis Team (IPT) and other staff at University Hospitals of North Midlands (UHNM) in relation to the prevention and control of healthcare associated infections (HCAIs).

The Trust recognises that the effective prevention and control of HCAIs is essential to ensure that patients using our services receive safe and effective care. Effective prevention and control must be an integral part of everyday practice and applied consistently to ensure the safety of our patients. In addition, good management and organisational processes are crucial to ensure high standards of infection prevention and control measures are maintained.

This report demonstrates how the Trust has systems in place, for compliance with the Health and Social Care Act 2008: Code of Practice for the NHS on the prevention and control of healthcare associated infections and related guidance (updated 2015).

The Trust set out to continue the commitment to improve performance in infection prevention practice. As outlined in the Health and Social Care Act 2008, at the heart of this law there are two principles:

- to deliver continuous improvements of care
- it meets the need of the patient

With this in mind, patient safety remains the number one priority for the Trust. Infection prevention is one of the key elements to ensure UHNM has a safe environment and practices which is reflected in the Trust '2025 Vision' and 3 years objectives and milestones – turning the vision into a reality.



## **Compliance Criteria 1:**

**Systems to manage and monitor the prevention and control of infection. These systems use risk assessments and consider how susceptible service users are and any risks that their environment and other users may pose to them**

### **Infection Prevention Team**

At UHNM the DIPC is the Chief Nurse and has overall responsibility for the IPT. The Associate Chief Nurse (Infection Prevention) at UHNM also has the role of Deputy DIPC.

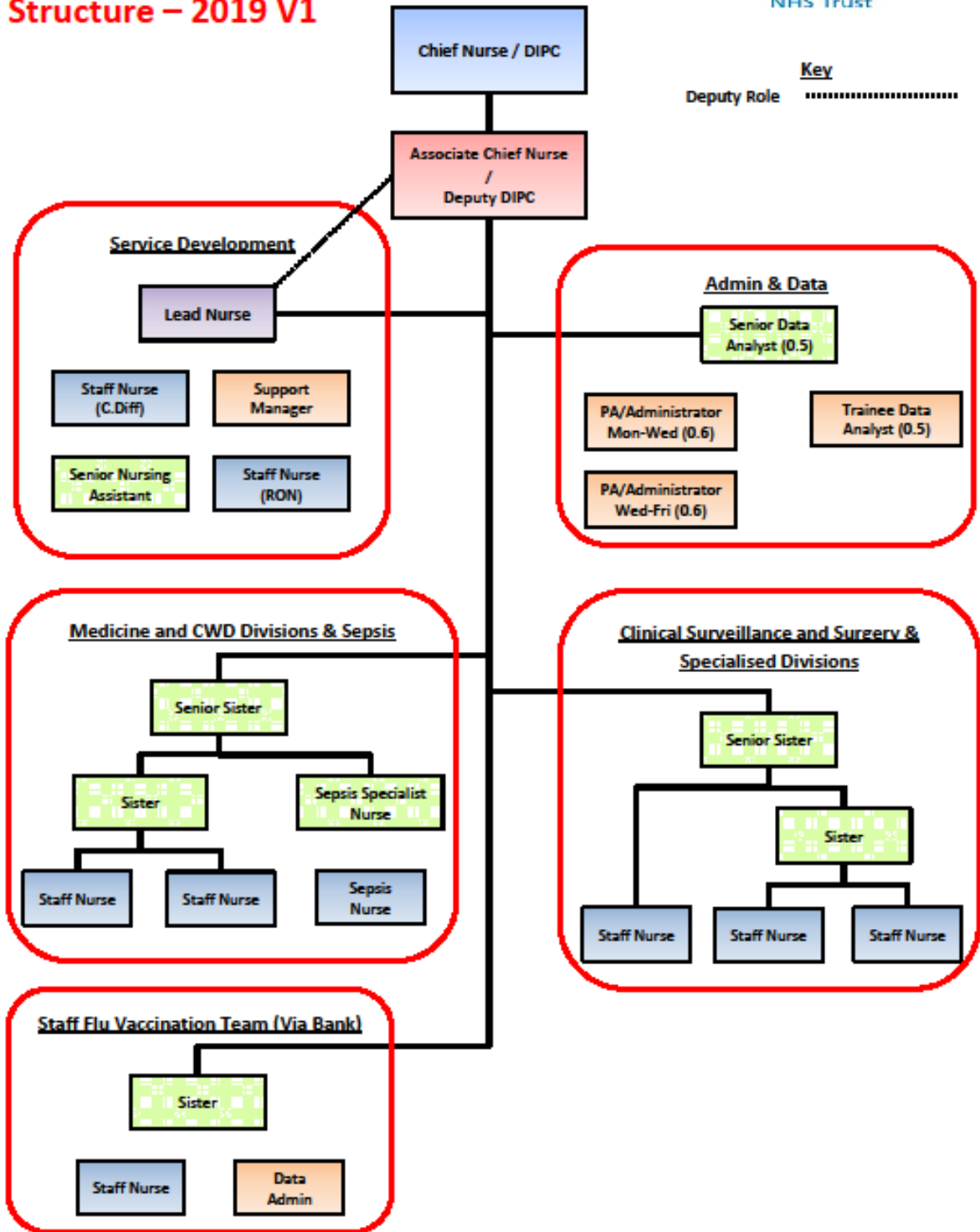
The IPT work collaboratively alongside front-line Clinical Leaders, supporting proactivity with improved clarity and defined alignment to clinical services. The introduction of new technologies allows the IPT to be present within the clinical settings for the majority of their time.

Quality Nurses remain an integral part of service delivery at UHNM. Nurses have a significant role in patient safety explicit within their responsibilities. This provides a key lynch-pin, and an ideal opportunity for the IPT to meet the challenges and significantly change the method of service delivery to front-line colleagues.

The infection prevention service is provided through a structured annual programme of works which includes expert advice, education, audit, policy development, and review and service development. The Trust has 24 hour access to expert advice and support.



# Infection Prevention & Sepsis Structure – 2019 V1





## Committee Structures and Assurance Processes

### Trust Board

The Code of Practice requires that the Trust Board has a collective agreement recognising its responsibilities for infection prevention and control. The Chief Executive has overall responsibility for the control of infection at UHNM. The Chief Nurse is the Trust designated Director of Infection Prevention and Control (DIPC). The DIPC attends Trust Board meetings with detailed updates on infection prevention and control matters. The DIPC also meets regularly with the Chief Executive.

### Quality Assurance Committee

The Governance and Risk Committee is a sub-committee of the Trust Board and is the committee with overarching responsibility for managing organisational risks. The Governance and Risk Committee reviews high level performance data in relation to infection prevention and control, monitors compliance with statutory obligations and oversees management of the risks associated with infection prevention and control.

### Quality and Safety Forum

The Quality and Safety (Q&S) forum meets monthly and is responsible for ensuring that there are processes for patient safety; continuous monitoring and improvement in relation to infection prevention. The Q&S forum receives assurance from IPCC that adequate and effective policies and systems are in place. This assurance is provided through a regular process of reporting. The IPT provide a monthly report on surveillance and outbreaks.

### Divisional Infection Prevention Groups

These groups are responsible for monitoring local performance in relation to infection prevention. Assurance is provided by Divisional IP groups, and Infection Prevention meetings. Groups provide assurance to the Trust IPCC that adequate systems and processes are in place within wards and departments and that performance and risks are being monitored.

### Antimicrobial Stewardship Group

The Antimicrobial Stewardship Group (ASG) is a multidisciplinary group responsible for the monitoring and review of good antimicrobial stewardship within the Trust. The ASG reports directly to the IPCC and meets on a bi-monthly basis. The group drives forward local activities to support the implementation of international and national initiatives on antimicrobial stewardship including Start Smart then Focus and the European Antibiotic Awareness Campaign. The ASG produces and updates local antimicrobial guidelines which takes into account local antibiotic resistance patterns; regular auditing of the guidelines; antimicrobial stewardship practice and quality assurance measures; and identifying actions to address poor compliance with guidelines. Antimicrobial audit results are reported widely throughout the organisation, for example at Divisional Clinical Governance and Speciality Morbidity and Mortality meetings. There is an escalation process for clinical areas that do not follow clinical guidelines and there is active engagement at Executive level with Senior Clinicians in Specialities with repeated non-compliance.



There is a separate **Health Economy Antimicrobial Group** chaired by one of the Consultant Microbiologists. The group meets quarterly, and has representation from all key stakeholders, including general practitioners. A regular report is submitted to IPCC.

**Decontamination Meetings**

The Trust Decontamination Lead is the Chief Executive. The management of Decontamination and compliance falls into three distinct areas: Estates, IPT and the Equipment User, details are outlined later in the report.

**Water Safety Group**

The Water Safety group is a sub group of IPCC and meets quarterly. It is chaired by the Deputy DIPC with multi-disciplinary representation.

**Mortality Review Group**

The Trust Mortality Review Group meets monthly the Chair for the group is the Deputy Medical Director (Patient Safety). This group reports directly to the Quality and Safety Forum, providing an understanding of the interpretation and application from mortality data. The group has initiated a proactive approach to reviewing mortality alerts and providing prompt assurances to both the Trust and its external stakeholders in relation to any potential alerts relating to mortality. The mortality information and analysis is also reported to the Quality Assurance Committee to allow for non-executive review and challenge around the robustness of the data and the processes in place for reviewing mortality and providing assurances to the Trust Board.

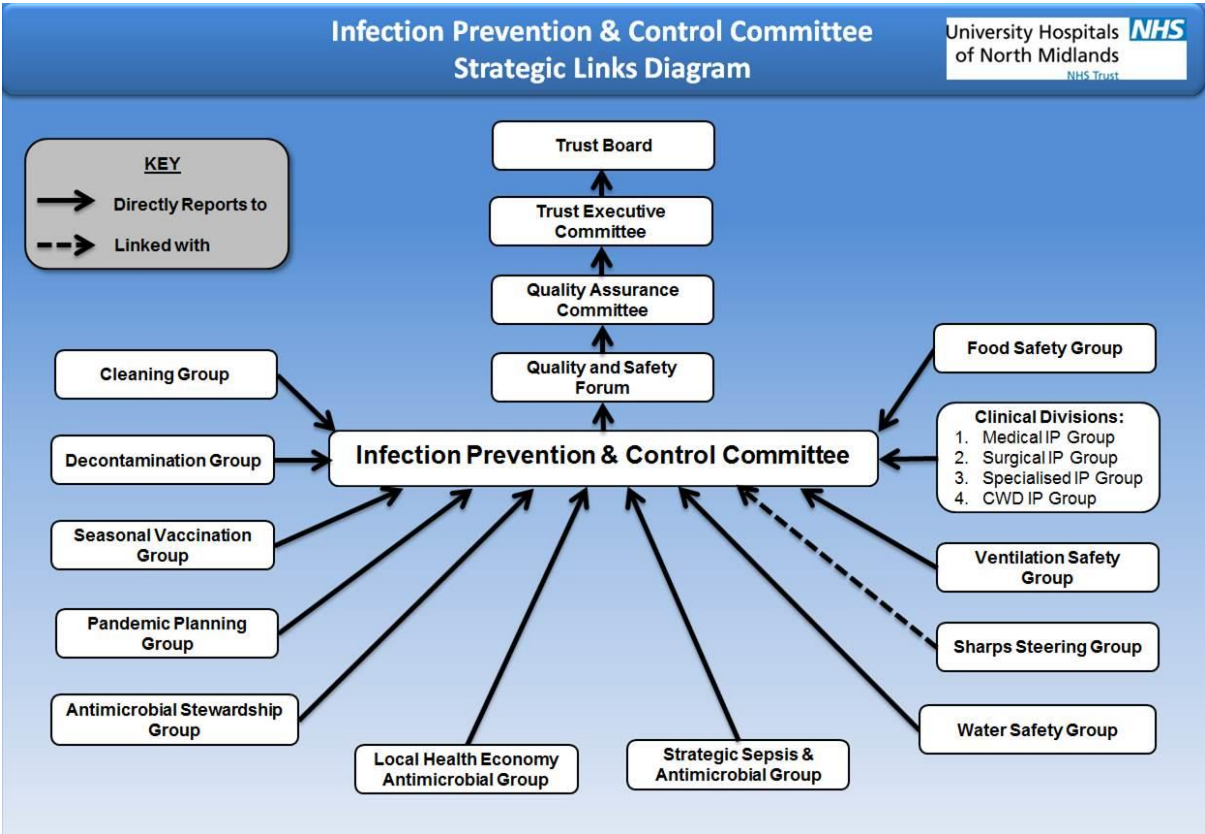
The corporate structure for reporting and monitoring on mortality issues is outlined below:



*Clostridium difficile* 30 day all-cause mortality information is included in the Infection Prevention Dashboard.



# Infection Prevention and Control Committee (IPCC) Strategic Links



## Reports/Papers Received by IPCC

Policy/Procedure Updates and Standard Operating Procedures (SOP) updates	Rotational Report: Water Safety
UHNM HCAI Surveillance & Performance Reports	Rotational Report: Occupational Health
Outbreaks & Incidents	Rotational Report: Decontamination
Divisional Reports	Review & Update Committee Terms of Reference
Environment Report	Pandemic Flu Update
UHNM Antimicrobial Group Update	Annual Report
Antimicrobial CQUIN Update	Sepsis Report
Local Health Economy Antimicrobial Group Update	Annual Manual Decontamination Audit
Documents Received from other Committees, Regional & National	Annual Mattress Audit Report
HCAI Monthly Bulletin	Annual IP Link Practitioner Report
SSI Report	Food Safety Group Update
Blood Culture Contamination Rates Report	Antimicrobial Stewardship Group Minutes
BSI Report /Gram negative Report	Decontamination Group Minutes



Hand Hygiene Audits	IP Risk Register
ANTT Update	Water Safety Group Minutes
CDI Plan Update	Sharps Report
PHE Update	Health Economy Committee
Annual IP Code of Practice Self -Assessment Tool	3T Heater Cooler Update

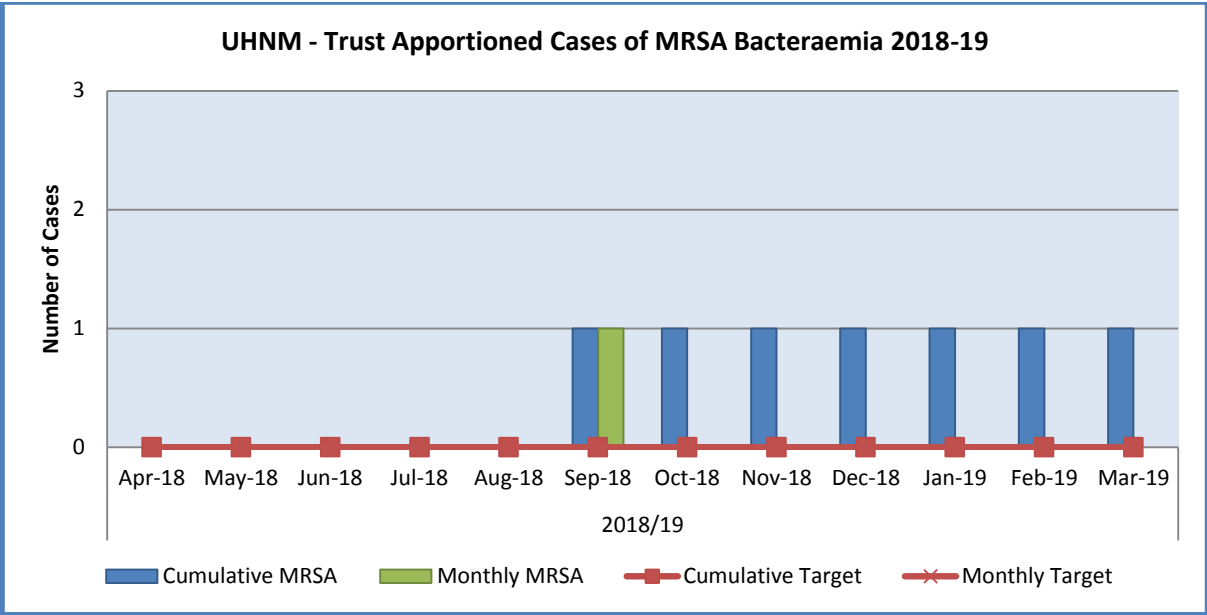
### Groups/Meetings Infection Prevention Team Attend

Antimicrobial Stewardship Group	Health Economy Antimicrobial Group
Clinical, Equipment, Standardisation and Produce Implementation Groups	Patient Safety Specialised Group
Compliance Steering Group	Infection Prevention Divisional Group
Clostridium <i>difficile</i> Multi- Disciplinary Meetings	Infection Prevention Group Meeting , Estates, Facilities and PFI Division
Clostridium period of increased incidence meetings (PII)	Pneumatic Tube Meetings
Bed and Mattress	Quality and Safety Forum
Decontamination Group	Sharps Steering Groups
Estates refurbishments and new development projects	Seasonal vaccination Group
Food and Safety Task and Finish Group	Strategic Sepsis and antimicrobial Group
Trust Health and Safety Committee	Tissue Viability
Health and Safety Imaging	Teaching and Educational Meetings
Fire Enforcement	Water Safety Group
Mortality Review	Group Strategic Sepsis and Antimicrobial Group

The IPT completed a gap analysis of evidence required to comply with the Health and Social Care Act 2008, Code of Practice on the prevention and control of infection and related guidance (updated 2015). This was reported to IPCC.



**MRSA Bacteraemia (Blood stream infection)**



One post 48 hours MRSA bacteraemia, a number of learning points were identified and an action plan in place.

One MRSA blood culture contamination was investigated this sample from patient know to be MRSA colonised. The blood culture was taken by locum doctor.

**Clostridium difficile Infection (CDI)**

*Clostridium difficile* is a bacterium that can cause colitis. Symptoms range from mild diarrhoea to a life threatening disease. Infections are often associated with healthcare, particularly the use of antibiotics which can upset the bacterial balance in the bowel that normally protect against CDI. Infection may be acquired in the community or hospital, but symptomatic patients in hospital may be a source of infection to others. A proportion of the healthy population have *Clostridium difficile* normally residing in their gut without causing any illness.

In March 2012 the Department of Health (DH) issued revised guidance on how to test, report and manage CDI. The new guidance aimed to provide more effective and consistent diagnosis, testing and treatment of CDI. It provided the ability to categorise patients into one of three groups:

- CDI likely
- Potential *Clostridium difficile* excretors (carriers)
- CDI unlikely

Identification of potential *Clostridium difficile* excretors may aid infection control measures.

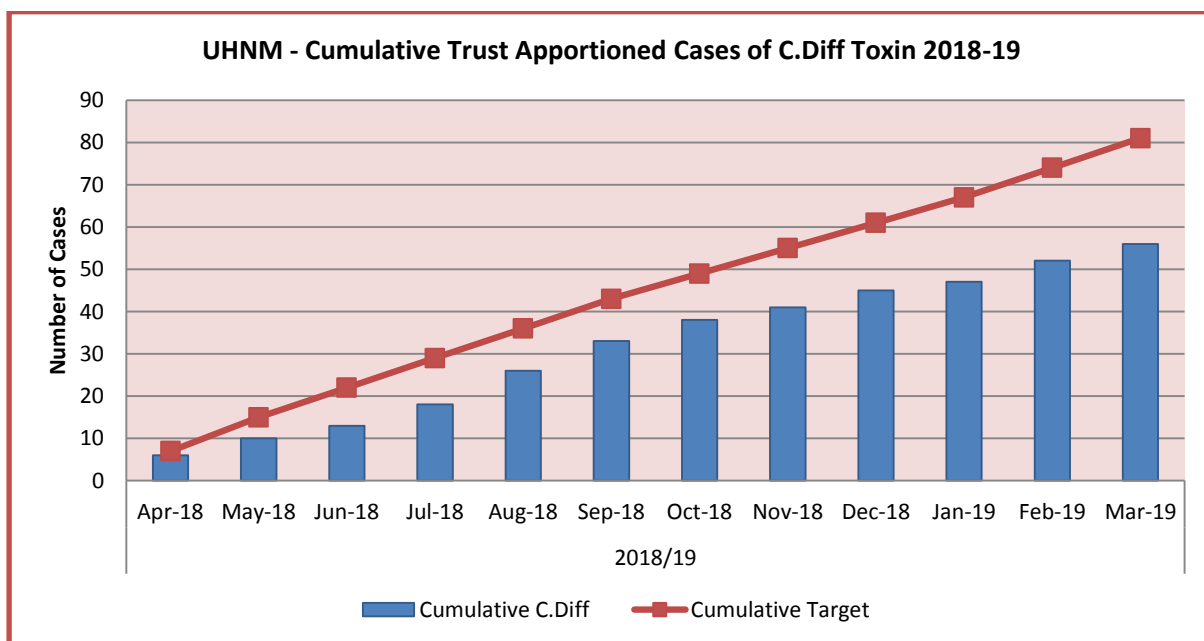
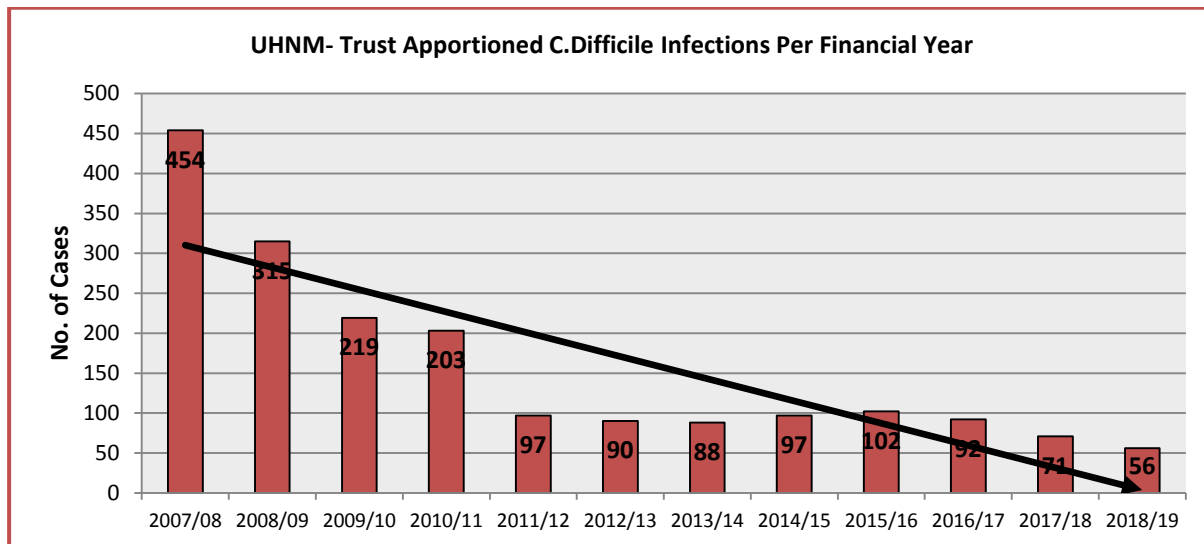
UHNM is compliant with DH testing guidance for CDI.

All patients with a toxin A/B positive or a toxin B gene PCR test positive report are isolated until at least 72hrs free of symptoms and a formed stool has been achieved.

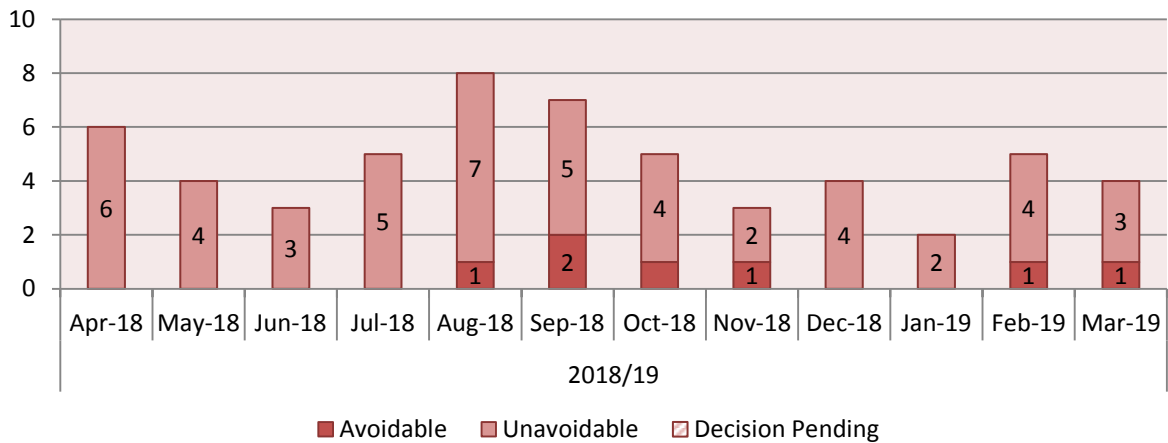


Cases of CDI that are considered to have been acquired in the Trust during 2018-19 are defined as sample taken “on or after the 4<sup>th</sup> day of admission”.

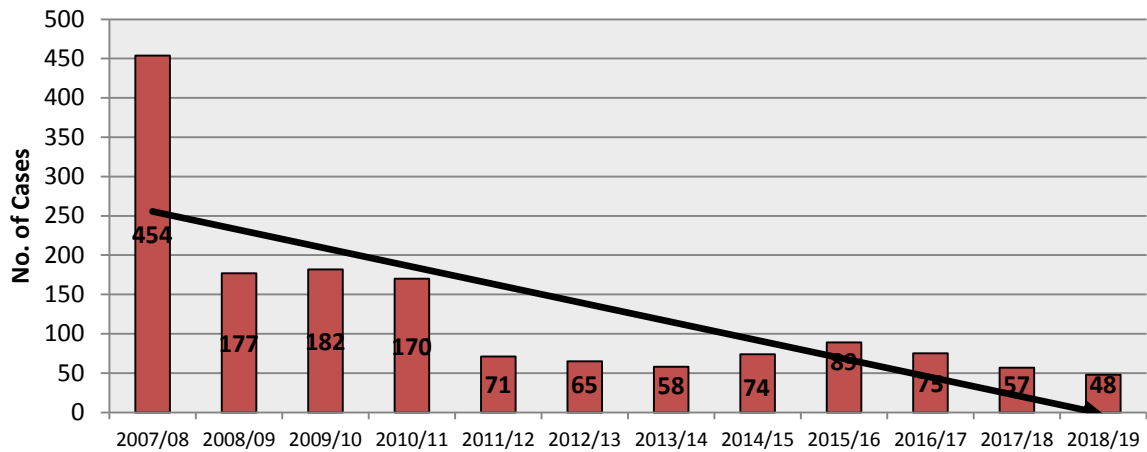
The target set by NHS England for Trust acquired cases at UHNM 2018-19 was 81. UHNM reported a total of 56 cases which is a 21% reduction on previous year 2017/18 (when 71 Trust apportioned cases were reported), and well within the target. Out of the 56 cases 7 were deemed as avoidable (lapse in care).



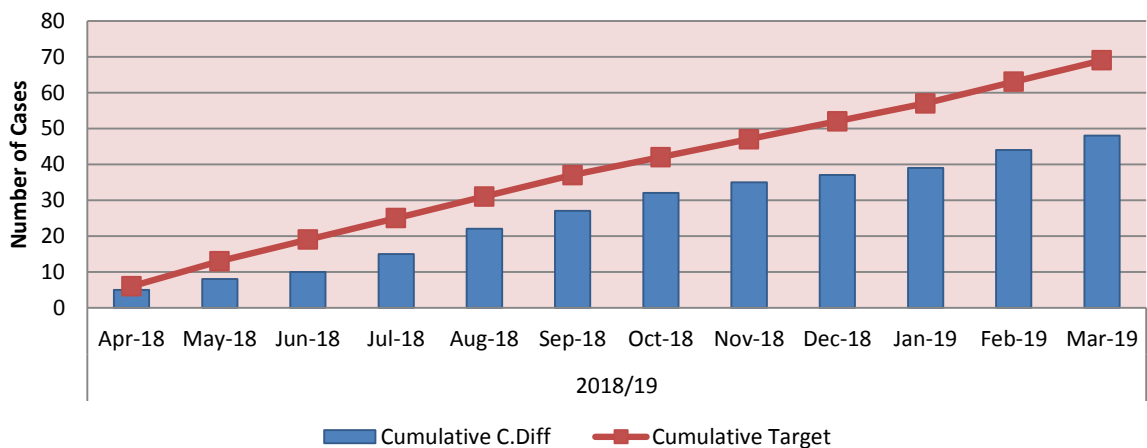
### UHNH - C.Diff Avoidability Status - 2018/19



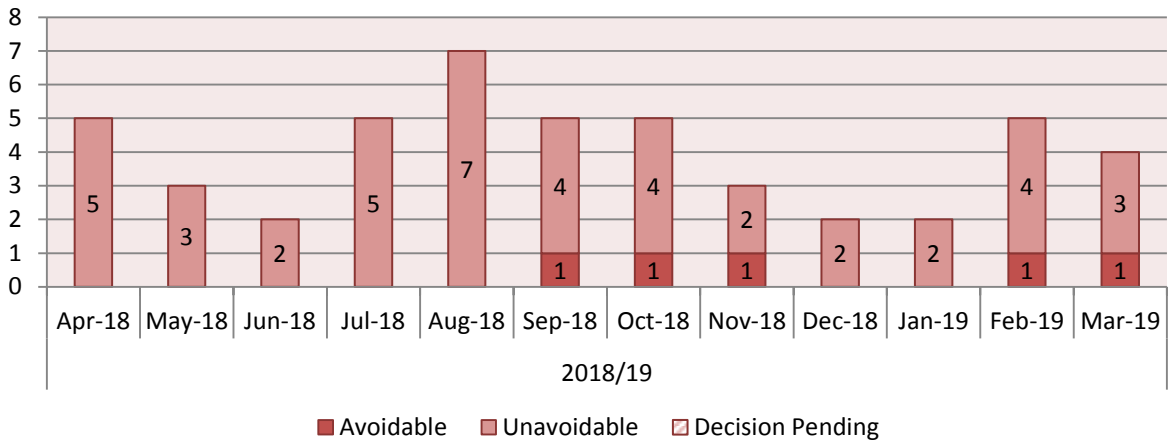
### RSUH Trust Apportioned C.Difficile Cases per Financial Year



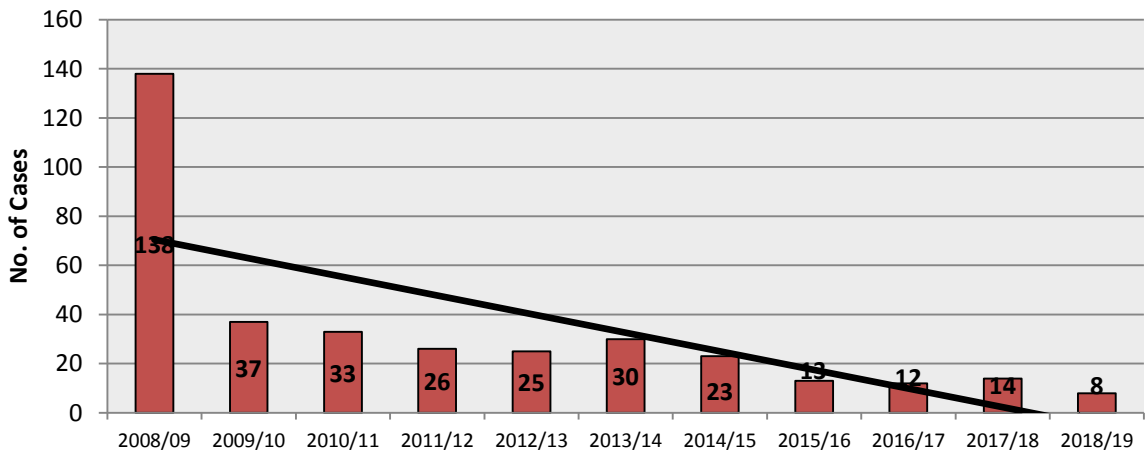
### Cumulative RSUH Trust Apportioned Cases of C.Difficile Toxin 2018-19



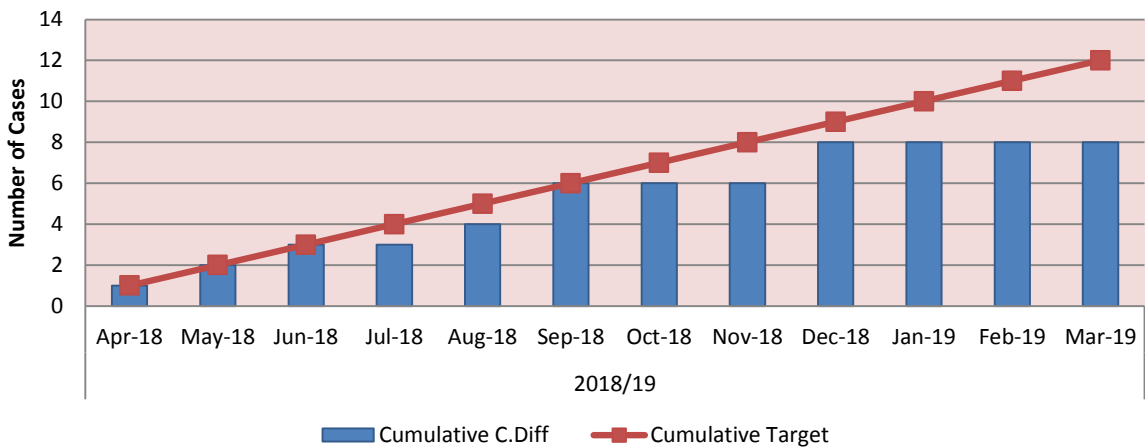
**Royal Stoke - C.Diff Avoidability Status - 2018/19**



**County Hospital Trust Apportioned C.Difficile Cases per Financial Year**

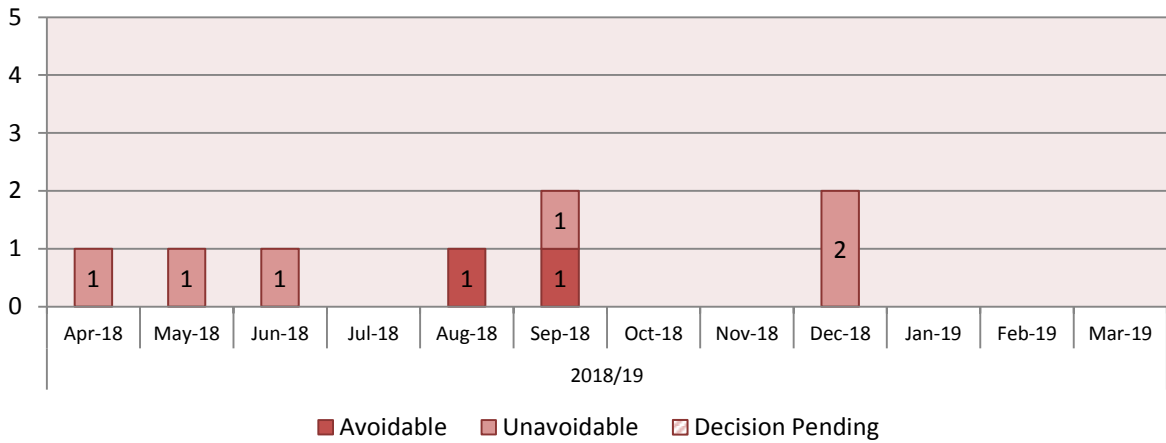


**Cumulative County Hospital Trust Apportioned Cases of C.Diff Toxin 2018-19**





### County Hospital - C.Diff Avoidability Status - 2018/19



## **Clostridium *difficile* Action Plan**

Preventing and controlling the spread of *Clostridium difficile* is a vital part of the Trust's quality and safety agenda by a multifaceted approach and the proactive element of early recognition and isolation of *Clostridium difficile* toxin positive cases and of those cases that are *Clostridium difficile* carriers (PCR positive).

All hospital acquired *Clostridium difficile* positive samples or cases where the patient has had a recent hospital stay at UHNM are submitted to Public Health England for ribotyping. Samples with the same ribotype are then examined further by way of VNTR. This helps to identify wards or areas where patient to patient transmission has likely to have occurred, with enhanced focus on control measures, with decanting and deep-cleaning of the patient areas if necessary.

In all cases control measures are instigated immediately, and RCA's are reviewed. Each inpatient is reviewed by the *Clostridium difficile* Nurse at least three times a week, and forms part of a weekly multi-disciplinary review where the patients' case is discussed including antibiotics and where necessary feedback to Ward Doctors is given.

All HCAI CDI cases are subjected to a Root Cause Analysis and each case discussed with Head of IP and Clinical Commissioning Groups to decide their avoidability (lapses in care) with feedback to the IPCC and Divisions, with the Divisions to action Duty of Candour where necessary.

UHNM closely monitor Periods of Increased Incidence (PII) of patients with evidence of toxigenic *Clostridium difficile* in any ward or area. The definition of a PII is two or more patients identified with evidence of toxigenic *Clostridium difficile* within a period of 28 days and associated with a stay in the same ward or area.

Wards with HCAI CDI are placed on barrier cleans for a total of 28 days provided no further HCAI cases are reported from the area, in addition wards with a PII undergo a full terminal clean.

Sporicidal disinfectant is used routinely across UHNM for cleaning of the general environment and non-invasive equipment used in wards/departments e.g. commodes. Emergency portals are on a routine six monthly deep clean programme in addition to all other cleans.

The above approach has assisted greatly in the early identification and termination of any outbreaks of CDI.

Fidaxomicin is used as first line treatment for patients with a high risk of recurrence of *C. difficile*

### Criteria for use

- Aged 65 years or over and /or
- Recurrent CDI cases
- Concomitant systemic antibiotics treatment for an indications other than CDI
- Patient severely immuno-compromised

In addition a switch to fidaxomicin is undertaken in any patient, if treatment with several days of oral vancomycin has failed clinically, and the likely continuing signs/symptoms are caused by CDI.



An audit was completed during 2018/19 to compare the incidence of CDI and rate of reoccurrence as described prior to and after the increased use of Fidaxamycin. In the period after the incidence of CDI with a positive C diff toxin results had reduced by 26% and the CDI recurrence rate had reduced from 22.1 to 15.5%.

The recommendations from the study is to adopt a Trust policy of treating all CDI positive UHNM inpatients with a risk factor for recurrent CDI with fidaxomycin.

Faecal microbiota transplant (FMT) involves the infusion of healthy human donor flora bacteria into the bowel of the affected patient. The indications for the treatment were either recurrent diarrhoea or no response to aggressive CDI management.

Education is a key aspect of helping to promote the prevention of Clostridium *difficile* within the Trust. Assisting with staff knowledge of stool sampling practices and Clostridium *difficile* risks factors.

A programme of Clostridium *difficile* educational is in place, with sessions extended to include non-clinical staff such as Domestic Staff, plus the introduction of online Clostridium *difficile* education.

A top tips card for staff are issued to staff during the education sessions, again promoting sampling practices and the ‘Pooh’ help line. A Pooh helpline awareness stands were held in December 2018 to promote the Pooh helpline.



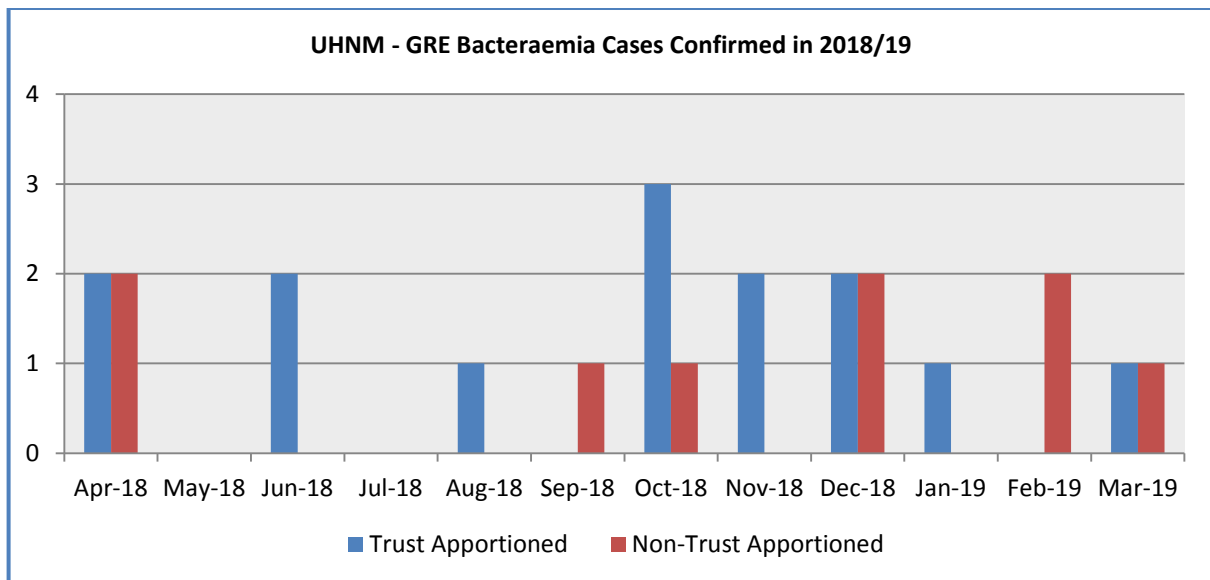
All patients with CDI are provided with an information leaflet which contains the Clostridium *difficile* passport (green care), this card is for the patient to keep and then show to any doctor, pharmacist, dentist or healthcare provider.



**Glycopeptide Resistant Enterococcus (GRE) Bacteraemia**

Enterococci are bacteria commonly found in the bowel and GRE are enterococci that have become resistant to glycopeptides (for example vancomycin). Reporting of bacteraemia caused by GRE has been mandatory for NHS acute Trust in England since September 2003.

During 2018-19 the Trust reported 23 of this type of blood stream infection (see chart below), with 19 cases recorded at UHNM in 2017-18.



**Carbapenemase – Producing Enterobacteriaceae (CPE)**

Public Health England published a toolkit for the early detection, management and control of CPE in December 2013. The toolkit provides expert advice on the management of CPE to prevent or reduce the spread of these bacteria into (and within) health care settings, and between health and residential care settings.

A Trust CPE policy has been in place for some time; this reflects screening guidance recommended by Public Health England.

In addition to national guidance UHNM perform routine admission and weekly screening on the following wards: Adult Intensive Care Unit, Renal Ward, Infectious Diseases Ward, and all Elderly Care Wards.

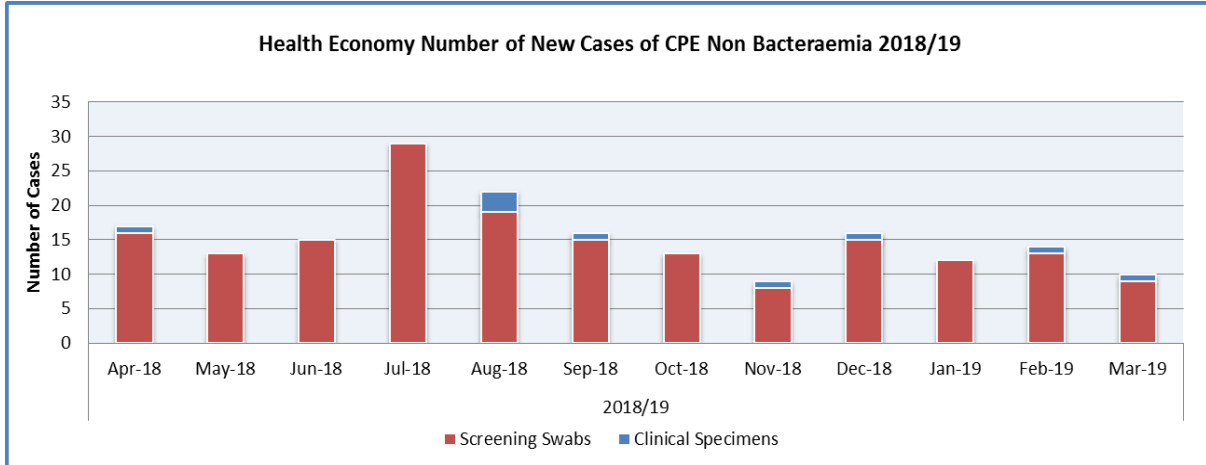
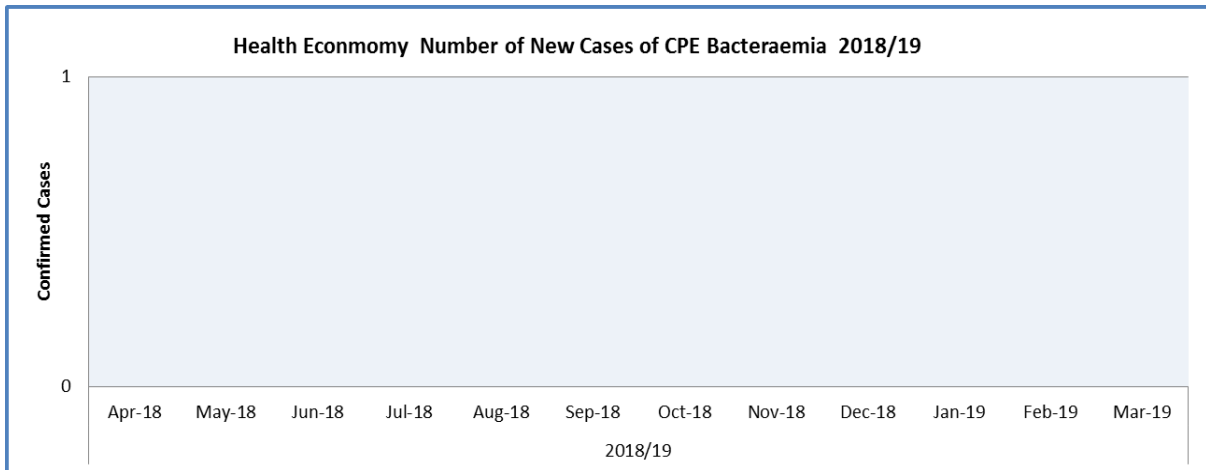
A screening close contact flow chart has been devised to assist staff in the clinical areas where contact screening of patients is required.



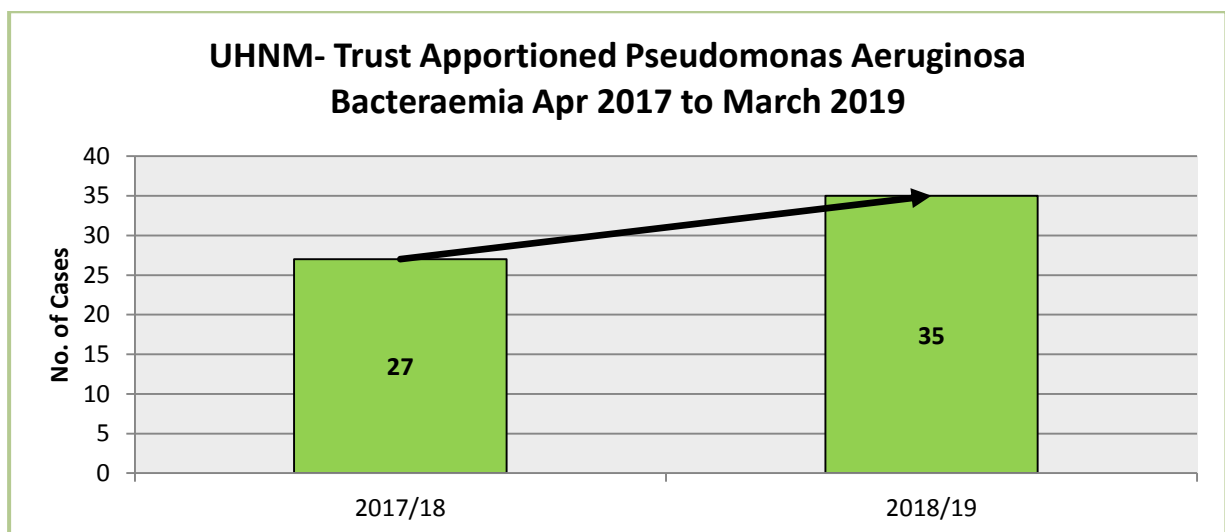
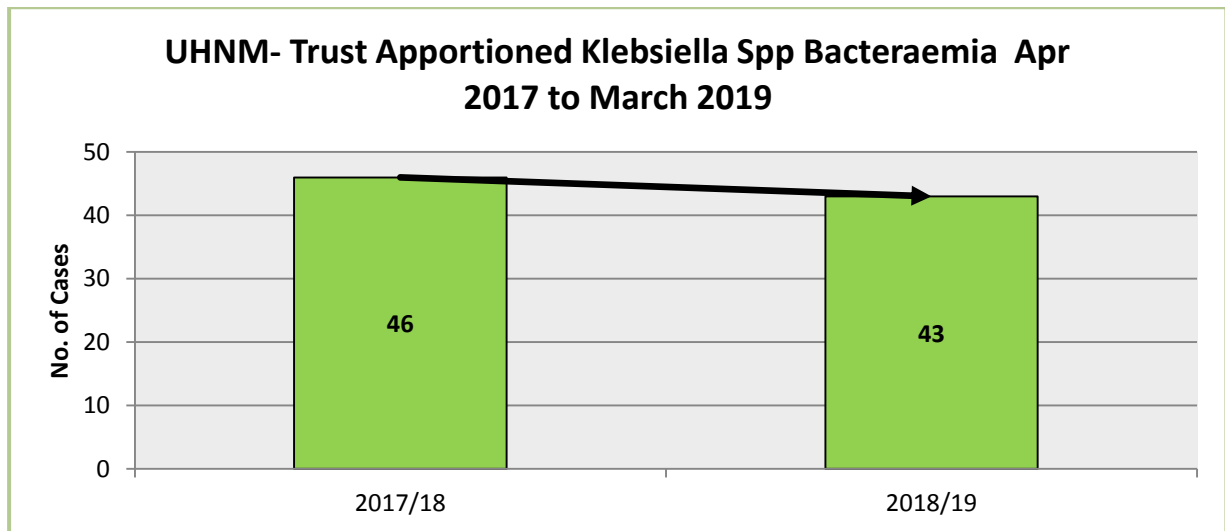
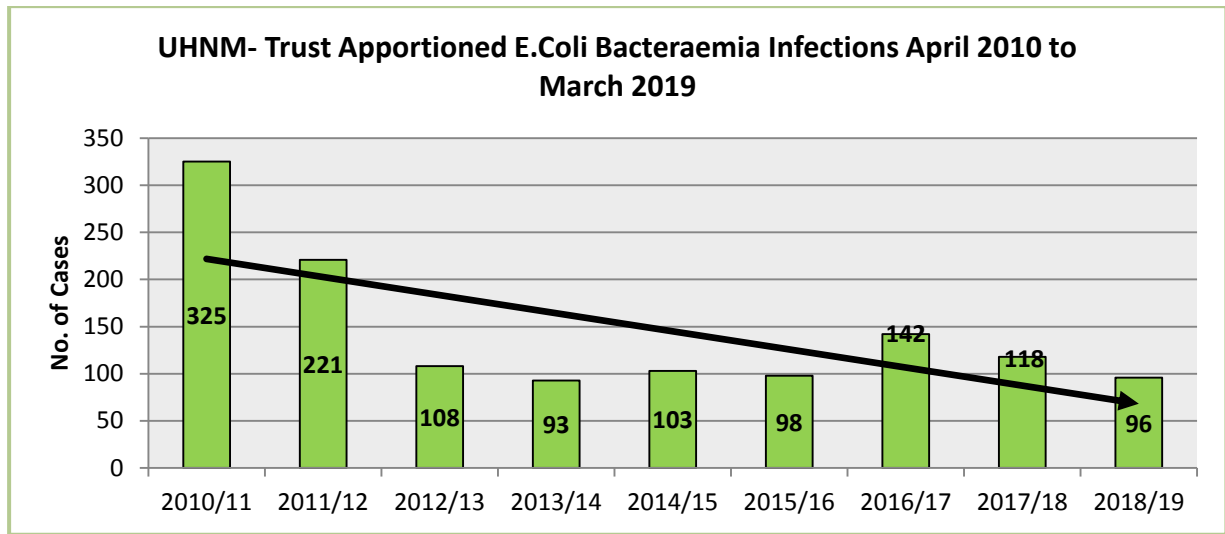
UHNM have changed the screening method (for rectal swab & catheter sample urines) to a culture plate that can detect both ESBL and CPE, for identified hospitalised close contacts of confirmed CPE UHNM PCR tests are performed on rectal swabs to enable rapid results and subsequent actions.

### CPE in the Outpatient Setting

The Infection Prevention Team developed CPE in the outpatient setting tool to assist staff in the out-patient setting/day case setting when caring for patients with known CPE or a close contact of CPE. The tool is in use and sets out personal protective equipment, cleaning and isolation requirements depending on the clinical setting and any individual transmission factors.



**Gram- negative Bacteraemia Trust Apportioned**



*Pseudomonas aeruginosa* is a Gram-negative bacterium often found in soil and ground water. It is an opportunistic pathogen and it rarely affects healthy individuals, however, it can cause a wide range of infections, particularly in those with a weakened immune system e.g. cancer patients, new-borns and people with severe burns, diabetes mellitus or cystic fibrosis.

UHNM has experienced a rise in *Pseudomonas* species infection during 2018-2019. This is comparative with NHS Trusts in England of similar size and capacity. The Clinical Surveillance Team are investigating data to discover any common themes amongst our patient groups, the report will be presented to IPCC.

### **Gram Negative Blood Stream Infections**

The Secretary of State for Health launched an important ambition to reduce healthcare associated Gram-negative bloodstream infections by 50% by 2021 and reduce inappropriate antimicrobial prescribing by 50% by 2021. Gram-negative bloodstream infections are believed to have contributed to approximately 5,500 NHS patient deaths in 2015. We know GNBSI cases can occur in hospitals however, half of all community onset cases have had some healthcare interventions either from Acute, Primary or Community Care. Therefore, we can only achieve the reductions by working together across the whole Health and Social Care sectors.

In 2017/18 the initial focus was on using a Health Economy approach to reduce *Escherichia coli* bloodstream infections as they represented 55% of all Gram-negative bloodstream infections nationally. Performance Improvement Network events for Health Economies to share and learn from each other were attended by the IPT.

A retrospective analysis of Trust Hospital Acquired *E.coli* bloodstream infections identified from June – November 2017 was completed with a total of 61 cases reviewed to identify common themes to influence the Trust's action plan. Delivery of this action plan is monitored weekly by the Infection Prevention Senior Sister for the Clinical Surveillance Team and reviewed formally with the Deputy DIPC monthly. Progress is shared with Trust IPCC and monitored in Divisional Infection Prevention meetings and presented at CQRM quarterly as per HCAI contractual requirements if required, and also shared with the CCGs Head of Infection Prevention & Control.

The action plan themes are currently identified as:

1. Trust Surveillance data submitted to Public Health England (PHE), data collected will be used to update the Trust action plan
2. Hand hygiene
3. Reduce prevalence of catheters and strengthen catheter care to reduce risk of catheter associated urinary tract infections
4. Urinary tract infection
5. Hydration
6. Oral hygiene/denture in the elderly
7. Prevention on deconditioning "pyjama paralysis"
8. Vascular access device care
9. Surgical Site Infections



## ***Candida auris***

In August 2017 Public Health England produced a document - Guidance for the laboratory investigation, management and infection prevention and control for cases of *Candida auris*, which is a yeast species (*C. auris*).

*C. auris* is a recently identified *Candida* species that has been associated with infection and outbreaks in healthcare settings on five continents including the UK. It has been isolated from a range of body sites, including skin (very common), urogenital tract (common), and respiratory tract (occasional), and resulted in invasive infections, such as Candidaemia, pericarditis, urinary tract infections and pneumonia.

*C. auris* affects both paediatric and adult populations, and has predominantly been identified in critically unwell patients in high dependency settings.

As with other organisms associated with nosocomial outbreaks, it appears to be highly transmissible between patients and from contaminated environments, highlighting the importance of instituting effective infection prevention practices.

A screening policy, guidance on treatment and infection prevention precautions was developed and added as a section to the Infection Prevention Questions and Answers Manual.

### **Audit Programme to Ensure Key Policies are Implemented**

UHNM has a programme of audits in place, undertaken by both clinical areas and the IPT to provide assurance around practice and ensure that areas are consistently complying with evidence based practice and policies. Action plans are devised by areas where issues are highlighted and fed back to the IPCC via the Matron for the area.

The audit tools for general ward areas is designed to ensure relevant to that Clinical Area.

In addition the IPT completed additional audits where infection numbers are highest or where there appears to be an identified risk concern so improvements in the care process can be identified quickly and put into action.

### **Check and Prompt Audits**

The check and prompt audits continued as part of the Trust's *Clostridium difficile* plan. These audits are undertaken by the IPT to review patients with a hospital stay of 30 days, 60 days and 90 days. The objective is to provide assurance for common IP interventions and proactively seek improvements where necessary to reduce the risk of health care acquired infections for the individual.

### **Audits of Hand Hygiene Practice**

Hand hygiene remains central to the audit programme. There is a Senior Nursing Assistant within the IP Team who undertakes unannounced random hand hygiene assessments in clinical areas, as well as providing weekly hand hygiene training sessions.

The Trust continues to focus on four main components:





- Alcohol hand rubs at the point of care, prominently positioned near each patient or staff carriage so that hands can be cleaned before and after care within the patient's view.
- Audit of hand washing practice at least monthly, Wards that do not achieve 95% repeat the audit after two weeks.
- Patients are encouraged to challenge staff if they have any doubts about hand hygiene and in cases of repeated non-compliance, escalation of concerns.

### Staff Information

- Alert organism surveillance is reported to the organisation by the Infection Prevention Nurses daily
- Monthly ward based/Divisional surveillance data is produced, including surveillance, information on MRSA, Clostridium *difficile*, ESBL, MGNB and antimicrobial. This information is used to update ward dashboards which are on display on the wards; this informs the public on ward performance.
- IP promotional activities have been held throughout the year promoting infection prevention with good practice being targeted at both staff and visitors to the Trust.
- Intranet: IP continues to make use of the intranet for providing staff with an easy access portal for information, policy guidance and IPT contact details. This information is regularly updated.
- IPT continue to lead the Infection Prevention Link Practitioner scheme
- Norovirus and other toolkits are available for all ward areas. The toolkits include everything that staff require to help manage infections, including posters and information for relatives/visitors.
- Posters and information leaflets are displayed throughout the Trust. These provide key infection prevention messages and actions for staff, public and visitors.

### Staff Training

The IP Team continue to have a strong training role within the UHNM, educational sessions have been delivered throughout the year. These have included programme of mandatory sessions and induction days, in addition; Sepsis, MRSA, CPE, MRSA screening and decolonisation, influenza, flu vaccination, norovirus, Clostridium *difficile*, winter planning, water safety/flushing and measles.

A number of Infection Prevention educational sessions are also available via the Trusts online system.

### Mask Fit Training

The IP Senior Nursing Assistant provides mask fit training for clinical staff.

### Seasonal Staff Influenza Vaccination Campaign

Seasonal influenza staff vaccination campaign is well established at UHNM and is a year round process.

### IP Link Practitioner Scheme

The IPT continued to support the IP Link Practitioner with most areas having a designated link member of staff. This Scheme is open to all staff as everyone has an important role in infection prevention and cascading best practice in their area of work.



In December to further raise awareness and improve practice across all disciplines of staff, the IP Team held its first non-clinical IP Link Meeting for Porters and Housekeepers/Domestics who aren't in a supervisory role. Meetings will take place on a bi-monthly basis taking the form of a mixture of basic training (what and when to wear PPE, hand washing techniques, sink etiquette etc.) and questions and answers where we will be encouraging any concerns regarding infection prevention to be brought to the forefront.

### **Estates**

Education sessions for retained estates was undertaken covering basic Infection prevention principles. This training was well received by the department.

### **Shadowing**

During 2018-19 Student Nurses from Keele University continued to be allocated to the IPT. This is a valuable experience to provide an opportunity for students to gain an insight into IP within a hospital setting and to improve practice whilst working in the clinical areas.

### **Aseptic Non Touch Technique (ANTT)**

Healthcare associated infections (HAI) can be significantly reduced when effective aseptic technique is practised. UHNM adopted ANTT in 2015 as the standard for all clinical procedures. Throughout 2018/19 work has continued to strengthen the theory and practice of ANTT throughout the Trust with the Infection Prevention Clinical Surveillance Team (CST) working with clinicians to ensure that ANTT is embedded into all policies, protocols, guidelines and training. Cascade trainers have been supported by CST with cascade trainer training sessions, meetings, educational newsletters and nationally updated ANTT resources made available on the Trust Intranet. The Trust "Roles and Responsibilities" for ANTT Cascade Trainers continues to provide clarity of the role and the Trust expectations, also to assist managers when allocating the role to an appropriate member of the team

The Trust's My ESR ANTT theory package was launched in August 2018 has been accessed and completed by many clinical staff across the Trust. Practical assessments continue to be recorded on e-rostering as a clinical skill allowing Department Managers to have an overview of how many of their staff have completed practical assessments and are competent.

Through attendance at the Trust Clinical Equipment Standardisation and Product implementation Group (CESPIG) standardisation and suitability of equipment and medical consumables continues to be promoted across the Trust.

### **Staff Supervision**

Infection Prevention Team are allocated their own areas of responsibility for wards/departments/Matrons. This enables IPNs to link in with ward staff to provide relevant training and expert advice to staff as well as monitoring compliance in those areas. In this way, the work of staff in the Trust was subject to scrutiny and supervision but more importantly clinical staff felt supported and knew who their point of contact was.

### **Bed Management and Movement of Patients**

The IPNs work closely with the Clinical Site Team especially during the winter period, providing timely and expert advice on the management and movement of potentially infected patients. There is an updated RAG rating system for the use of side room/isolation facilities available for staff to use to ensure that as far as possible informed decisions are made when considering patient placement.



## **Compliance Criteria 2:**

**Provide and maintain a clean and appropriate environment in managed premises that facilitates the prevention and control of infections**

### **Monitoring Processes**

#### **Royal Stoke**

The cleaning provided at the Royal Stoke Hospital site for all clinical and non-clinical areas are split between an in-house cleaning team as well as an external cleaning contractor (Sodexo).

#### **Monitoring Processes for In-house Retained Estate Cleaning/Domestic Services**

The Retained Estate Team is responsible for cleaning approximately 21% of areas at The Royal Stoke, and provides a comprehensive 24/7 scheduled and ad-hoc cleaning service.

The Retained Team complete environmental audits which occur in all patient areas once every three months, this is carried out with representatives from the Retained Cleaning, Clinical and Estates Teams.

Self-monitoring is completed by the Retained Supervisory Team on a weekly basis, to ensure standards are maintained throughout all of the retained areas. If there are areas of concern, the monitoring is increased until the Team are satisfied that the standards are being met. Spot checks and unannounced ad-hoc audit inspections are also carried out by the Management Team, the frequency of these is determined on a week to week basis.

The Retained Team are committed to providing an outstanding service which is reflected in the Environmental Audit scores and our Patient-Led assessments of the care environment (PLACE) results.

Representatives from the Retained Management Team also participate in any outbreak or periods of increased incidents (PII) meetings, when issues are identified on site.

Scheduled and ad-hoc meetings with Infection Prevention, Matron's and Clinical colleagues to regularly monitor, review progress and address/resolve any issues are held to ensure that standards and performance target and compliance is met.

#### **Monitoring Processes for Sodexo Cleaning Services**

Sodexo is responsible for cleaning approx. 79% of areas at The Royal Stoke and provides a comprehensive 24/7 ad hoc and scheduled cleaning service via a helpdesk on site. The contract in place ensures that all areas are cleaned to the 2002 NHS Cleaning Standards and are self-monitored at least once every 10 weeks. The Trust has a Contract Performance Management (CPM) Team in place to ensure that standards on site are maintained for Sodexo areas. The CPM Team work closely with Sodexo to drive and sustain improvements, concerns regarding cleanliness can be raised by all staff via the helpdesk route, and an escalation process exists should users feel that their concerns have not been addressed satisfactorily.



The CPM Team completes environmental audits which occur in all patient areas once every three months with representatives from the Clinical, Estates and Cleaning Teams present. In addition to this the CPM Team also provides representation for the Water Safety Group, Clinical Excellence Framework Group, as well as participate in any outbreak or periods of increased incidents (PII) meetings when issues are identified on site.

The CPM continue to work closely with Sodexo on-site, their National Senior Management Team, Matron's and Clinical colleagues to regularly monitor, review progress and address/resolve any issues or concerns promptly:

- Regular meetings between Sodexo management representatives and Trust clinical teams to review cleaning performance and ensure that improved performance is sustained and confidence in the service is maintained.
- Frequency of joint spot-checks and unannounced cleanliness audit inspections continue at an increased level.
- FM Team continue to work closely with the IPT.

### **Infection Prevention Meetings**

- Monthly meetings are held between the IPT and CPM/Sodexo to review cleaning scores and discuss any areas of concern.

### **County Hospital**

#### **Monitoring Processes for Cleaning/Housekeeping Services**

The County Team is responsible for cleaning all areas (with exclusion to Theatres) on this site, and provides a comprehensive scheduled and ad-hoc cleaning service from 6am – 10pm, seven days a week.

The County Monitoring Officer completes environmental audits which occur in all patient areas once every three months; this is carried out with representatives from the Clinical locations. If areas raise concerns due to failures identified, they are re audited within that same quarter.

Self-monitoring is completed by the Housekeeping Supervisory Team on a weekly basis, dependant on risk rating of areas, to ensure standards are maintained throughout all of the retained areas. If there are areas of concern, the monitoring is increased until the Team are satisfied that the standards are being met. Spot checks and unannounced ad-hoc audit inspections are also carried out by the Management Team.

The County Team are committed to providing an outstanding service which is reflected in the Environmental Audit scores and our Patient-Led assessments of the care environment (PLACE) results (2018 PLACE scores 100%).

Representatives from the County Management Team also participate in any outbreak or periods of increased incidents (PII) meetings, when issues are identified on site.

Scheduled and ad-hoc Meetings with Infection Prevention, Matron's and Clinical colleagues to regularly monitor, review progress and address/resolve any issues are held to ensure that standards and performance target and compliance is met.



## **PLACE Inspection**

The annual PLACE inspections have been delayed by NHS England this year; it is likely they may not take place until the Autumn.

## **Terminal Cleans**

All emergency portals undergo a deep clean on a six monthly basis in addition to other cleans in order to reduce the bioburden.

All terminal clean requests required within working hours are requested via the IPT. Requests for terminal cleans outside of these hours are requested via the Site Matron, and are completed by the respective teams to ensure that patient flow is not slowed down.

## **Radiator Cleaning**

UHNM has a planned programme of radiator cover removal to allow for cleaning.

## **Food Safety**

The Food Safety Task and Finish Group have developed and finalised documentation relating to food bought in for patients, these have been added to the FM services section of the intranet for use by the clinical teams. In the event that foods are brought into hospital the information will be documented on the supporting form and the form will be retained at ward level for the duration of the patients stay.

The documentation has been developed to help explain to the patient, relatives and friends the reasons why certain foods should not to be brought into hospital for consumption by the patient. These are known as HIGH RISK FOODS which can cause food poisoning if kept in the wrong conditions.

The training module has been designed for staff who handle food and drink on behalf of patients to be will be completed via E-Learning on a biennial basis. The module will be available through the Electronic Staff Record.

## **Food Hygiene Inspection Royal Stoke University Hospital**

The food hygiene inspection at RSUH was carried out by Stoke on Trent City Council Environmental Health Officer, Public Protection Division in January 2017 for the PFI Building and Maternity and Oncology building which resulted in both buildings being awarded five stars under the national food hygiene rating scheme. An inspection of Lyme and Trent Buildings took place in January 2018 which resulted in both buildings being awarded five stars under the national food hygiene rating scheme.

## **Food Hygiene Inspection County Hospital**

The food hygiene inspection at County Hospital by Stafford Borough Council's Environmental Health Inspectors in early 2019 has resulted in the hospital being awarded five stars under the national food hygiene rating scheme.

For the fourth year running, the catering department at County hospital has maintained a five star food hygiene rating for compliance in all aspects of food safety.



Food businesses are required by law to comply with food hygiene regulations as lay down by the Food Standards Agency and the public can find how compliant a food business is with legislation by logging on to [www.ratemyplace.org.uk](http://www.ratemyplace.org.uk) On the website, food businesses are rated on a star award system with five stars being the maximum achievement. Upon inspection, the Food Safety Officer, checks how well the establishment are meeting the law on food hygiene in the three areas below:-

Criteria Assessed
Compliance with food hygiene & safety procedures
Compliance with structural requirements
Confidence in management/ control procedures

**Water Safety Group**

The Water Safety Group is a sub group of IPCC and meets quarterly, reporting directly to IPCC. The Water Safety Group is chaired by the Deputy DIPC.

**Management of Decontamination**

Management and compliance currently falls into three distinct areas i.e.

- Estates – for medical device reprocessing equipment. UHNM provides Estates Services and also those provided by Sodexo as part of their estates (hard FM) management responsibilities within the PFI contract.
- Infection Prevention – for monitoring/audit of compliance of medical devices with Trust Policies and advise with pre purchase questionnaire (PPQ)
- User – to comply with Trust Policies and to ensure all decontamination equipment within their area is fit for use and subject to periodic testing and maintenance.

The Decontamination Group is a sub group of IPCC and meets monthly, reporting directly to IPCC.

**Waste Projects**

The close involvement of Infection Prevention has been crucial to the continued success of waste management projects.

In 2018’s report mixed waste had been initiate ,however, this has since ceased due to risks identified around contamination and so changes to process around waste management are under review through recent Tenders for both General and Healthcare waste.

Infection Prevention, the Sustainability and Waste team are also working in partnership with Sodexo, and Clinical Divisions to ensure recycling at ward level remains common practice whilst a review of waste processes are completed with new suppliers.



Staff continue to help to prevent fluid leaks by:

1. **Correct Fluid Disposal:** Preventing fluid disposal into the offensive waste stream through ensuring that all areas of the Trust dispose of fluids in a correctly defined, standardised and consistent way.
2. **Effective Bag Tying:** learning the correct waste bag tying technique and using the SOP in order to eliminate any problems of fluid leaks at the moving and handling stage.
3. **Bin Washing:** Hopefully by preventing fluid leaks with proper disposal and bag tying leaks and splashes won't occur, however, there is an offensive waste bin washing process so that only clean bins are put back into the system.

A new post for an Environmental Waste Co-Ordinator has been created and so Domestic Waste bin washing at both Royal and County will be undertaken in line with the above.

A waste management policy remains in place having been devised to detail the specifics around handling infectious wastes (use of PPE, securing bags, labelling, storage and the correct waste streams, colour codes and waste categories and points of contact).

Infection Prevention isolation signs depict the colour of waste bag for patients requiring isolation precautions. These continue to be used throughout the Trust.



## Save our Sinks

Week beginning 13 August 2018 the Infection Prevention Team held a Save Our Sink Awareness Week for both staff and patients alike. The week was to raise awareness around the need to keep hand wash sinks free from clutter, clean and the refraining of using the hand wash sinks for anything other than hand washing.

The Infection Prevention Team completed audits in different areas of the hospital to ascertain the level of awareness.

Education stands were held respectively on the 14th and 15th August 2018 in the Atrium at The Royal and in the Nightingale Restaurant at The County.



To help raise awareness over 300 leaflets were handed out to all levels of staff and patients alike at both sites.

During the year the Infection Prevention Team worked with facilities to standardise the process in which hand wash sinks are cleaned to avoid contamination of the water outlet.

### **Ultra Violet Light Whole Room Decontamination Trial**

It is generally accepted that contamination of environment surfaces plays an important role in the transmission of healthcare associated pathogens.

Non-touch methods including ultra violet light are available to improve terminal cleans and thereby reduce healthcare associated infections.

A number of UV whole room decontamination systems were trialled across both sites and evaluation of these systems in progress.

### **Research project**

Infection Prevention Team supported a PHD research student from Southampton University who is studying relevance and prevalence of hospital biofilms with clinical visits and environmental sampling from a number of clinical areas. This work will continue over the next three years.

### **Cardiac Surgery Bypass Machine**

In June 2015 MHRA issued a Medical Devices Alert concerning all heater-cooler machines used for cardiac surgery. This is part of a pan European issue following a case of post-operative wound infection from mycobacterium reported in Switzerland. A European wide surveillance programme has been established, led by PHE in England. A further MHRA MDA alert was issued in December 2016, together with a joint PHE/MHRA/NHS England Webinar on 27th March 2017 for all Acute Trusts in England that undertake cardiac surgery. Letters have been issued to all relevant patients as part of the UK wide initiative. UHNM, as are all cardiac surgery centres, continue to work closely with PHE and the MHRA on this initiative with regular updates provided to the IPCC. All required control measures were instigated following the initial MDA alert in 2015, and continue to be in place together with Surveillance for any potential infections.



## Refurbishment Projects

The IPT provided advice on a number of refurbishment projects throughout the Trust.

## PFI Refresh and Lifecycle Projects

The IPT provide advice on a number of refurbishment projects throughout the Trust, including:

- Two replaced CT clinical areas, with third in progress.
- First of three replaced MRI clinical areas, second in progress and third in project for this year.
- Committed to providing further support to Cardiology, Mammography and x-Ray in support of the continuing replacement programme.

## Royal Stoke Hospital

A number of clinical areas at the Royal Stoke Hospital have undergone planned refurbishment works during this financial year.

- Sodexo annual maintenance programme
- Fire precautions works
- A number of new water supplies to ward 124
- Pharmacy/Dispensary work
- Day rooms converted to bed rooms in the PFI building
- Assisted bathrooms converted to bed space in the PFI building
- The addition of two new modular wards

Pods which have previously been installed into four bed spaces on ward 76b in West Building remain in place. These are tailor made single occupancy rooms which are designed specifically for a designated bed-space. The Pod incorporates specialist lighting and HEPA filtered air to further reduce the chances of healthcare associated infections.

## County Hospital

The extensive ward refurbishment programme provided more single rooms with ensuite facilities and ensuite four bedded bays.

The wards have been planned as generic as possible to enable staff to work across units if required. All refurbished wards have a minimum of two dirty utility rooms, each to serve half of the ward to facilitate cohorting in case of a norovirus outbreak.

A number of the upgrade projects include:

- Air handling units, Sterile services
- Fire alarm upgrade
- Out- patient lighting upgrade
- Courtyard landscape



## **Compliance Criteria 3:**

**Ensure appropriate antibiotic use to optimise patient outcomes and to reduce the risk of adverse events and antimicrobial resistance.**

### **Sepsis Team**

Sepsis is defined as a life threatening organ dysfunction caused by a dysregulated host response to infection. It is a syndrome of physiological, pathological and biological abnormalities induced by infection. It is now a major public health concern (NICE UK Sepsis guidelines 2017).

There are 250,000 cases of sepsis in the UK each year resulting in between 52,000 and 68,000 deaths. That's more than breast cancer, bowel and prostate cancer combined. With effective screening and early treatment we can save 14,000 lives across the UK. The UK mortality rate for patients admitted to hospital with red flag sepsis can be up to 30%.

The Sepsis Team was established and has been in place from October 2016, comprising of a Sepsis Clinical Lead, Sepsis Fellow, Senior Sister, Nurse Specialist and a Sepsis Nurse. The main aim of the team is to achieve the sepsis CQUIN compliance target, by ensuring that our patients are safe at all times, as well as reducing the mortality rate and morbidity. However, for 2019/2020 the Sepsis CQUIN will be incorporated into the Trust contract, with stringent requirements and penalties remaining.

The Sepsis Team are working optimally and collaboratively with our AMR colleagues and front-line clinical colleagues to continue to raise awareness and propagate education and training in sepsis, which has clearly had a demonstrable effect. Sepsis training is now an integral part of the newly qualified nurses', Band 4 and Medical Staff. Working with our AMR colleagues ensures that there is an equal emphasis on sepsis screening, treatment and antibiotic stewardship

National Sepsis CQUIN: There are three elements needed to be achieved and will remain into the contract

- All patients with a National Early Warning Score (NEWS) of five or greater (or three in a single parameter) need to be screened for sepsis.
- All patients that have red flag sepsis need to receive IVAB within one hour.
- All IVAB for sepsis patients have to be reviewed within 24 to 72 hours.

### **Challenges**

The change of Modified Early Warning Score (MEWS) moving to the use of NEWS resulted in a corresponding reduction in compliance. This was due to the increased sensitivity of triggering using the NEWS criteria and subsequently adopted the NEWS2 on the Quarter 3 of 2018.

In line with all other Trusts in the country, UHNM has seen a significant demand on its emergency services and inpatient beds, including patients waiting in queues, in response to these challenges the Sepsis Team have:

- Arranged one to one meetings with clinical teams addressing and highlighting their concerns.



- Sepsis education and training continued and provided to all levels of clinical and medical staff to improve awareness and answer questions.
- Support given to respiratory wards by creating own local guidelines/additional screening tool with a good rate of success.
- Attended the Emergency Portals regularly to provide support and assistance to sustain awareness of sepsis. In addition an A&E Sepsis bleep was put in place to support compliance.
- The Sepsis Team & Fellows continues to work closely with colleagues in the Emergency Department around sepsis.
- For those patients queuing, a clinical room has been identified within the Emergency Department at The Royal Hospital in which patients identified with sepsis can receive parenteral antibiotics without unnecessary delay.
- Robust actions put in place to ensure good compliance are maintained, sustained and embedded into good practice.

The Sepsis Team has put robust actions in place and are working closely with frontline staff, multi-disciplinary & senior teams, and medical staff to have a maximum effect on the achievement of the Trust's CQUIN/ contract. The aim is to protect patients from deadly conditions and ensuring that they are safe at all times.

### Initiatives Undertaken

- The Sepsis Team launched a whole week Sepsis Awareness during the World Sepsis Day in September 2018 with a great success, involving the whole Trust front-line/clinical staff, MDT and Senior Team in all four divisions.
- Introduction of a Sepsis Trolley as part of every awareness and campaign in the Trust.
- UHNM own sepsis information flyers and compliance sepsis cards created and distributed Trust wide for continuous awareness.
- Had a great success in identifying Sepsis Champions (staff nurses/nursing assistant/ in house doctors/ANP) in each clinical area/divisions.
- Sepsis kiosks & face to face training continued and provided to all staff including doctors. The aim to train as many departments throughout the year.
- Departmental sepsis slides presentation organised to capture all level of clinicians within the Trust's four Divisions.
- The Sepsis Team continued to regularly attended/provided sepsis updates to all Trust Divisional IP meetings, supporting all areas and helping drive for compliance.



- Regular Strategic Sepsis & Antimicrobial Group meetings and Sepsis Team Senior Team meetings put in place, to work optimally and collaboratively.
- Online training resource developed via ESR for staff nurses/doctors and other clinical staff with demonstrable great outcome
- Sepsis reinforcement continued, holding a meet and greet in the clinical area, updating senior staff, clinical staff and consultants regarding sepsis compliance.
- The Sepsis Team provided Doctors, Band 4 or Trainee Associate Practitioners, new nurses and student nurses inductions as well as external training provided to GP's, Royal College of Nursing study day in Stoke on Trent, St. John's ambulance, Katherine House Hospice.
- Introduction of electronic Vitalpac (NEWS2) served as great success and sepsis module will come out on September 2019.
- Reward progress on wards/ clinical areas and possibility of working closely with sepsis survivor to create further awareness.
- Involved in collaborative works around Matneo Sepsis NHSi improvement project which was presented at a conference in London March 2019.

### **Sepsis Team Achievement**

The Sepsis CQUIN compliance achievement has been excellent in Q2, Q3, & Q4 of 2018 and with the aim to maintain, sustain and embed into good practice. Our sepsis robust actions remain in place and the sepsis team work closely with frontline staff, multi-disciplinary, senior teams, and medical staff to have a maximum effect on the achievement of the Trust's CQUIN/contract. The support and hard work of all staff/senior team/divisions in the Trust is vital to protect patients from deadly conditions and ensure that they are safe at all times.

### **Antimicrobial Stewardship (AMS)**

The Trust has an Antimicrobial Team (AMT) that supports the work of the Trust Antimicrobial Stewardship Group (ASG). The AMT consists of a Consultant Microbiologist, one WTE Advanced Pharmacist Practitioner (APP), one WTE Antimicrobial Nurse (AMN), the Infectious Diseases Specialist Pharmacist based at the Royal Stoke and the Antimicrobial Pharmacist based at the County. The latter two pharmacists provide sessional support to the ASG and CQUIN work streams in addition to their substantive core clinical roles. The APP and AMN were appointed in 2016-2017 following a Business Case and have a key role in delivering the AMR CQUINs, carrying out targeted ward reviews of antibiotic prescribing (often supporting a Consultant Microbiologist) and providing strategic leadership to ensure the antimicrobial stewardship agenda remains a high priority across all clinical areas. The team is also supported on an ad hoc basis by a data analyst and clinical information technician as required to support the compiling of reports for submission to PHE and NHS E, and the compilation of pharmacy led antimicrobial audit data on a quarterly basis.

The expanded team brings clinical experience and expertise in all aspects of antimicrobial stewardship and, on behalf of the ASG, is supported in escalating prescribing or clinical issues relating to antimicrobials to the appropriate forum. The AMT has developed initiatives to drive forward good antimicrobial stewardship and promote awareness of the global rise in antibiotic resistance



The UHNM has continued to build on the foundations put in place over the last few years, core functions which are routinely undertaken include:

- A regular review of the ASG membership to include representatives from both hospital sites so that local champions will support engagement with good antimicrobial stewardship. The Terms of Reference have recently been reviewed and new members recruited to reflect diversity e.g. non-medical prescribers and junior medical representation.
- A regular update of the Trust Antimicrobial Stewardship Policy. Quarterly audits measure compliance with this policy, with an escalation process in place for clinical specialities that require support to achieve compliance.
- A rolling Antimicrobial Audit Programme in line with Start Smart then Focus has been in place across the Trust for a number of years. The results of the audits are available on the Trust Intranet so that trends can be reviewed by specialities and their peers. The ASG review and support the development of action plans in areas of poor compliance and specialities are required to report progress against these at the ASG. This has been particularly important in supporting the achievement of the AMR CQUIN antibiotic consumption targets over the past few years
- The Trust's Antimicrobial Treatment and Prophylaxis Guidelines were reviewed and temporary alternative guidance issued when certain key antibiotics were unavailable due to global and national shortages.
- A full review of the UHNM Adult Antimicrobial Treatment and Prophylaxis Guidelines was initiated during 2018/19.
- The Antimicrobial Guideline App (Microguide) for mobile devices continues to support prescribers by facilitating easy access of antimicrobial guidelines at the point of prescribing. The web-based app allows more efficient updating of guidelines following review by ASG members.
- There is an Antimicrobial Education and Training Strategy. All antimicrobial stewardship-related presentations are available on the Trust Intranet.
  - Antimicrobial stewardship educational sessions for Pharmacy staff across both sites continue to be undertaken to support a uniform approach to antimicrobial stewardship and the quarterly antibiotic audit process. Sessions continue to be delivered on the increase in Gram negative infections and carbapenemase resistance, as well as key messages and supporting materials to support the CQUIN. Workshops on the prescribing, dosing and monitoring of two high risk drugs, gentamicin and vancomycin, are delivered as part of the antimicrobial stewardship induction programme to familiarise newly appointed pharmacists with the vancomycin and gentamicin dosing calculators and associated guidelines in place at UHNM, so that consistent advice and information is provided to prescribers and nursing staff.
  - In addition to pharmacist awareness sessions, the AMT provides training to each intake of overseas nurses recruited to UHNM as well as the preceptorship nurse scheme. This is important to align practice amongst colleagues who may have worked in different Trusts (and countries) with different approaches to antimicrobial stewardship.

The following initiatives have continued to be expanded:

- A rolling programme of antimicrobial sessions for Nursing staff.



- Targeted ad hoc sessions for Specialities/Wards.
- The development of gentamicin/vancomycin workshops for nurses on doses, monitoring and side effects of these high risk antibiotics.
- Antimicrobial stewardship and antimicrobial resistance awareness sessions for Laboratory and Infection Prevention staff.
- Engagement sessions with prescribers, nurses and pharmacists in relation to the updated UHNM Adult Antimicrobial Treatment and Prophylaxis Guidelines.

The first UHNM antimicrobial nursing conference entitled 'Why, What, How and So What?' was held at UHNM with over 30 delegates. Short sessions were delivered by the AMT on reasons for stewardship, nurses and stewardship, Drug Resistant Gram Negative Bacteria (DRGNB) definition and treatments, 'gentamicin and vancomycin – what's the problem? introduction of resistant organism nurse (RON) and 'newer combination antibiotics – modes of action'. Feedback was very positive and a further conference is to be held at County Hospital and then both sites annually

There are 5 Consultant Microbiologists and 2.6 WTE Consultant Physicians in Infectious Diseases, who provide antimicrobial stewardship by telephone and face-to-face on ward rounds and during teaching sessions. Antimicrobial stewardship ward rounds continue to be undertaken regularly on the Acute Medical Unit, Respiratory wards, Elderly care wards, Diabetes ward and some Surgical wards which provide opportunities for the AMT to raise awareness and make timely AM interventions with patients and the MDT at the bedside.

Antimicrobial consumption by Specialities and Wards was analysed on a monthly basis throughout the year to allow flexible targeted stewardship/antimicrobial review ward rounds for those areas requiring additional support in order to reduce antibiotic consumption and facilitate delivery of the current AMR CQUIN. There remains regular microbiologist support for Paediatrics including Neonatal Intensive Care Unit and Children Intensive Care Unit. The Critical Care Unit Pods 1-6 are visited twice weekly, whilst other key areas such as Renal and Haematology/Oncology, are visited weekly (unless a Microbiologist was on leave).

In common with other Trusts in the UK, UHNM faced challenges as a result of on-going shortages of a number of key antimicrobials due to manufacturer's supply problems in 2018/19. Aztreonam injection was once again intermittently available throughout the year. Worldwide manufacturing and capacity issues resulted in shortages with piperacillin / tazobactam, levofloxacin, vancomycin, gentamicin, mupirocin, trimethoprim and cotrimoxazole throughout the year. The ASG, Microbiology and Pharmacy Departments worked collectively to ensure that alternative agents were available for patients in a timely manner and to support the Trust's surgical programme:

- Antimicrobial guidelines were reviewed in their entirety during 2018/19 and alternative agents chosen taking into account antimicrobial stewardship and local resistance patterns, benefits and risks of proposed substitute agents, including cost pressure to the Trust as a result of using more expensive alternatives.
- These reviews required a significant amount of time and support from many members of staff across all divisions and was coordinated by the AMS nurse.
- Alternative medicines were sourced, purchased and made available in key areas via review of stock lists.
- Information on dosing, administration and side effects of the new alternative was communicated to prescribers, nursing staff and pharmacists.



- Targeted ward rounds undertaken by the AMS team enabled informed choices to be made by prescribers when considering switching to alternative therapies.
- Aztreonam was conserved for those patients with which an alternative was not an option, for example due to patterns of resistance, co-morbidities, or side effects.
- Acquisition costs of antimicrobials are monitored by the Antimicrobial Pharmacists and opportunities for cost saving initiatives are identified to support the Trust CIP programme. NHS E has taken a strategic role in managing antimicrobial drug capacity issues and their guidance requires on-going review and implementation at UHNM led by the AMS team.

The AMS team also provides input into the OPAT, Clostridium *Difficile* and Endocarditis / Valve MDTs.

#### **New Initiatives:**

- Support for the investigation of increased incidences of multi-drug resistant infections/colonisations has been further strengthened with AMT input and sharing of outcomes with pharmacy teams.
- A requirement to provide PHE with antibiotic consumption data has been met with the input from data analyst colleagues. In 2018/19 this reporting has been expanded to allow the AMS team to provide specific feedback at individual ward level in addition to speciality and divisional level.
- This consumption data has been made available to allow the production of reports to ASG, IPCC and TEC.
- An antimicrobial resources folder has been set upon the Trust Intranet to facilitate access for members of staff.

#### **NHS E Antimicrobial CQUINs 2018-19**

Significant changes to the CQUINs were introduced for the 18/19 year. These are summarised below.

#### **AMR CQUIN part 2c**

The requirements around documentation for the rationale of continuing IV antibiotics for patients with sepsis beyond 72 hours were expanded. In addition to evidence of a 24-72hr review there needed to be documentation (on the drug chart or in the medical notes) that the following options have been considered:

- Stop treatment
- Switch from IV to Oral
- Refer to OPAT service
- Continue IV (with rationale) plus new review date
- Switch (change to broader or narrower spectrum or change antibiotic) plus new review date

The review had to be undertaken by an ST3 or above grade attending doctor, an ST3 or above medical microbiologist / infectious diseases clinician or an antimicrobial pharmacist.



This part of the CQUIN was worth £210k of CQUIN income to UHNM for the year.

**AMR CQUIN part 2d**

- I) Reduction in total antibiotic consumption by 2% vs. baseline
- II) Reduction in carbapenem consumption by 2% vs. baseline
- III) Increase in consumption of ‘Access’ antibiotics by 3% to 39% in the year.

The table below summarises the ‘Access’ antibiotics. Greater use of these agents was encouraged via the CQUIN scheme in order to reduce national consumption of broader spectrum (Watch) antibiotics and ‘last resort’ antibiotics in the Reserve group.

The UHNM antimicrobial guidelines were updated in-year to incorporate some of these changes.

This part of the CQUIN was worth £210k of CQUIN income to UHNM for the year.

**Adapted WHO EML AWaRe List for England** 

Access	Watch	Reserve
Amoxicillin / ampicillin	Amikacin, tobramycin, etc	Aztreonam
Penicillin – all forms	Macrolides	Ceftobiprole,
Co-trimoxazole	Most cephalosporins	Ceftaroline
Doxycycline	Chloramphenicol	Ceftazidime-avibactam
Flucloxacillin	Fluoroquinolones	Ceftolozane-tazobactam
Fosfomycin oral	Clindamycin	Colistin
Fusidate	Co-amoxiclav	Daptomycin
Gentamicin	Other tetracyclines	Carbapenems
Metronidazole	Fidaxomicin	Fosfomycin IV
Nitrofurantoin	Piperacillin-tazobactam, etc	Linezolid / tedizolid
Pivmecillinam	Temocillin	Televancin
Tetracycline	Vancomycin, teicoplanin	Tigecycline
Trimethoprim		

Despite a number of pressures faced over the winter period, the Trust achieved the targets set for the CQUINs thereby safeguarding £420k of income for the Trust.

A number of other initiatives have taken place in 2018-2019:

- World Antibiotic Awareness Week took place to coincide with European Antibiotic Awareness Day (EAAD), an annual event held across Europe on 18 November. UHNM regularly supports, EAAD with an extensive campaign targeting both clinical and non-clinical staff, patients, carers, and members of the public. Both of these events are designed to raise awareness of the growing threat to public health from rising antibiotic resistance around the world.
- Collaboration with NHS E continues around procurement and rationalisation of antifungal drugs to deliver cost savings for the Trust and NHS England.
- Expansion of the scope of educational sessions undertaken by the AMS nurse to quality nurses and ward managers to better reflect individual team requirements.





The above initiatives have been underpinned by on-going formal and informal antimicrobial stewardship education and training for new and existing Medical, Nursing and Pharmacy staff. The Trust also supports antimicrobial stewardship training for undergraduates and newly qualified staff.

Feed-back received from users on these initiatives has been positive.

The antimicrobial work is fully supported by the Chief Executive, Chief Nurse and Medical Director who receive regular updates on progress.

## **Compliance Criteria 4:**

**Provide suitable accurate information on infections to service users, their visitors and any person concerned with providing further support or nursing/medical care in a timely fashion.**

### **Communication Programme**

The Trust has a dedicated Communication Team. Outbreaks where there may be interest from the media, the Communications Team are invited to meetings and their support and guidance on preparing Press statements is invaluable. The IP Team ensures that the Communications Team are involved in the following:

- Advertising infection prevention events.
- Communication campaign to inform GPs and the public around management of Influenza and Norovirus.
- Updating the Trust website.
- Press statements during outbreaks.
- Sepsis.
- Flu vaccination campaign.

### **Trust Website and Information Leaflets**

The Trust website promotes infection prevention issues and to guide people to performance information on MRSA, *Clostridium difficile* and other organisms.

The IPT have produced a range of information leaflets on various organisms.

UHNM subscribe to ICNet surveillance system which enables information to be shared with colleagues in the Health Economy.

The Trust has a policy on the transfer of patients between wards and departments.



## **Compliance Criteria 5:**

Ensure prompt identification of people who have or are at risk of developing an infection so that they receive timely and appropriate treatment to reduce the risk of transmitting infection to other people.

Infection Prevention Nurses attend a daily review of laboratory alert organism surveillance attended by Consultant Microbiologists and members of the Laboratory Team.

The Trust has a policy for screening both elective and emergency patients for MRSA and a system is in place for monitoring compliance.

### **iPortal System**

The Lead Consultant Microbiologist/Infection Control Doctor worked closely with IM&T Team regarding patient alerts. This system provides clinical staff with real time alerts and access to information from other hospital systems. Infection Control real-time alerts on the iPortal system includes Red and Amber alerts for patients with a very recent and relatively recent history, respectively, of MRSA, CDI, PVL-toxin producing *S. aureus*, and ESBL or Carbapenemase producing multi-resistant Gram Negative Bacilli. These alerts enable staff on wards and departments to promptly identify patients who have recently had an alert organism identified, allowing wards/departments to timely isolate and follow-up patients appropriately and to prescribe appropriate empiric antibiotics if antibiotic treatment is indicated.

### **Surgical Site Infection Surveillance (SSIS)**

UHNM have continued to participate in the Public Health England (PHE) National Surveillance Program. The aim of SSIS is to enhance the quality of patient care by encouraging hospitals to use data obtained from surveillance to compare their rates of SSI over time and against a national benchmark rate, this information is used to review and guide clinical practice.

The implementation of the ICNET SSIS module has helped to automate the data collection process and improve accuracy and efficiency.

During 2018-19 UHNM participated in the following PHE Surgical Site Surveillance:

<b>SSI SURVEILLANCE 2017-18</b>		
<b>QUARTER</b>	<b>PERIOD</b>	<b>SURVEILLANCE</b>
		<b>Royal/County</b>
<b>1</b>	Apr – Jun	Knee replacement surgery (mandatory report)
<b>2</b>	Jul – Sep	Non CABG cardiac surgery
<b>3</b>	Oct – Dec	Elective caesarean section surgery (non-reportable to PHE)
<b>4</b>	Jan – Mar	Breast surgery (repeated surveillance)
<b>4</b>	Jan – Mar	Cranial surgery

### **Methodology for Surveillance**

The surveillance was undertaken by the Clinical Surveillance Team (CST). All eligible patients were reviewed 2-3 times per week and monitored for signs of infection, whilst an inpatient electronic tags were added to eligible patient records to provide alerts if the patient was



readmitted or had a wound swab sent for the duration of the surveillance period, 30 days or 365 days if an implant is inserted at the time of surgery.

CST has worked with clinical teams to advise on the surveillance process and worked collaboratively to confirm any cases of SSI.

RSUH 2018-19				
Quarter	Category	No. of ops	No. of SSI's	%
1	Knee replacement surgery	171	2	1.17%
2	Non CABG cardiac surgery	76	3	3.9%
3	Elective caesarean section surgery	206	6	2.9%*
4	Breast surgery	110	8	7.27%
4	Cranial surgery	107	3	2.8%

All Hospitals 2013-2018				
Quarter	Category	No. of ops	No. of SSI's inpatient and & readmission	%
1	Knee replacement surgery	44,217	1,096	1.3%
2	Non CABG cardiac surgery	4,087	218	2.1%
3	Elective caesarean section surgery	unavailable	unavailable	2.9%
4	Breast surgery	3,744	174	0.9%
4	Cranial surgery	2,023	146	2%

The IPT work closely with specialities that report infections during the surveillance period. Investigations are carried out and reported through the Surgical Division and the Tissue Viability Group. Surgical Site Surveillance is a standing item on the IPCC agenda with a report presented by CST.

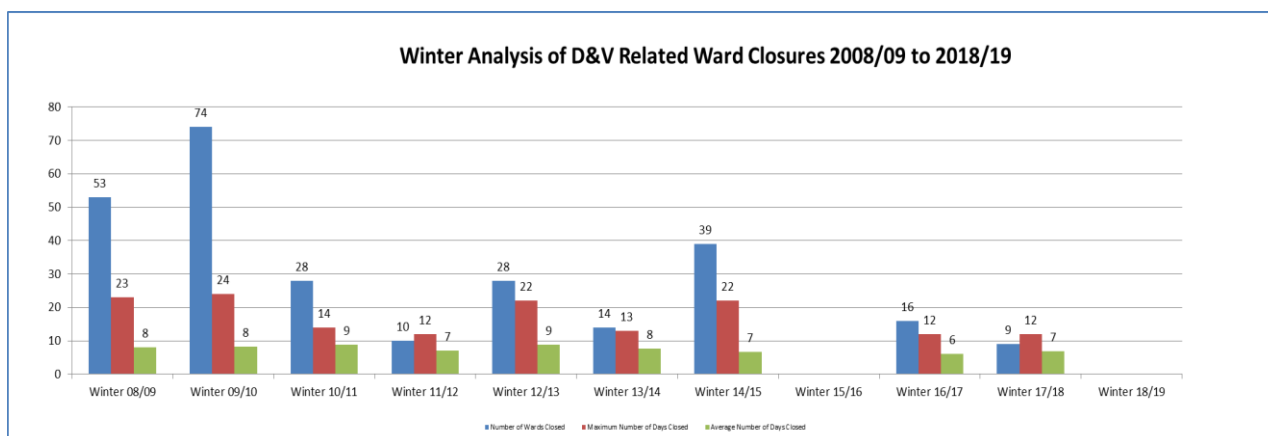
### Managing Outbreaks of Infection - Responses to Incidents and Outbreaks

The IPT are involved in the management of outbreaks, periods of increased incidence and incidents.

The Senior member of the IPT attended the daily command and control meeting during period of outbreaks

There were now whole ward closures due to D&V/Norovirus at both the Royal Stoke and the County Hospitals.





## Seasonal Influenza

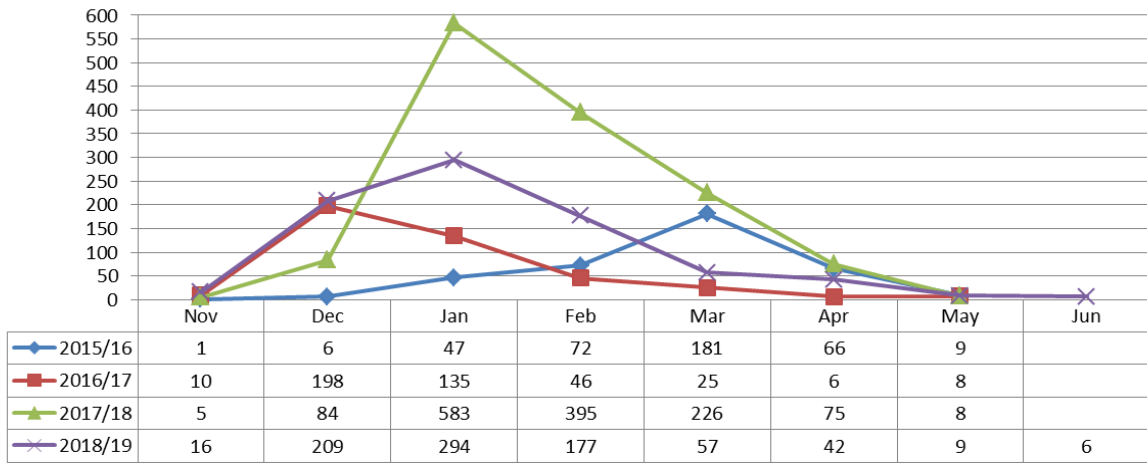
The UK saw a significant number of influenza cases again during this winter, and UHNM was no exception with a significant number of cases presenting to the emergency portals, which was on top of other pressures the Trust saw from acutely unwell patients.

UHNM had several cohort wards established, which was in line with other Acute Hospitals in the region. However, with good control measures these were mainly confined to cohort bays rather than spreading to the whole ward.

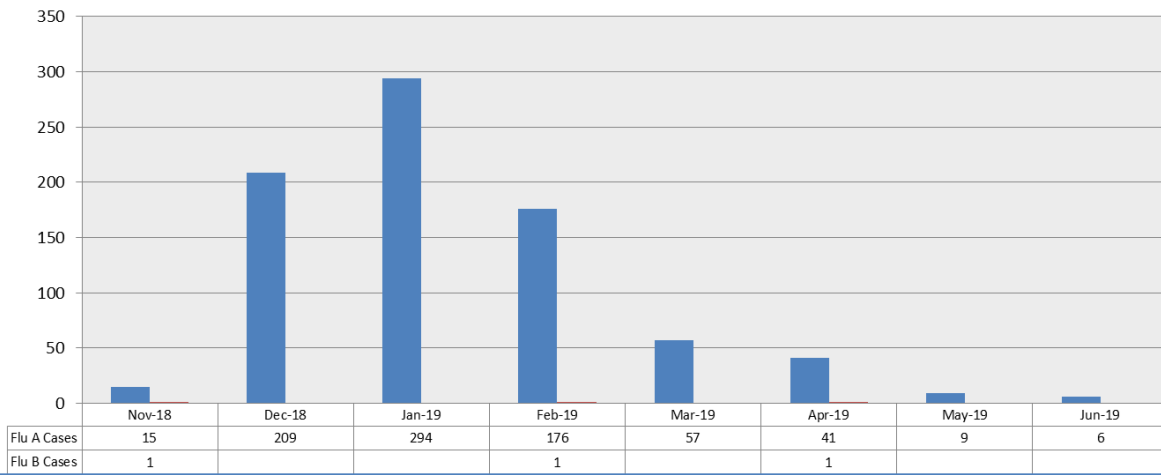
For each case immediate control measures were instituted, following the latest PHE guidance, including the use of antivirals. Affected areas were visited and assessed by an Infection Prevention Nurse at least twice daily, and at weekends additional IP staff were brought in to assist, due to the burden from other infections that continued.

Pressures in the emergency unit prevented early isolation in a smaller number of cases compared to the previous year. Nevertheless, the staff did a magnificent job in preventing further spread as best as they could, given the pressures, implementing antiviral medication as per PHE guidance to those exposed patients where this was required, but again to a lesser degree than in the previous winter. Swabbing of patients for respiratory viruses was followed as per the guidance issued. Independent audits confirmed that indiscriminate swabbing was not a significant issue. The Department of Clinical Infections supported the clinical teams.

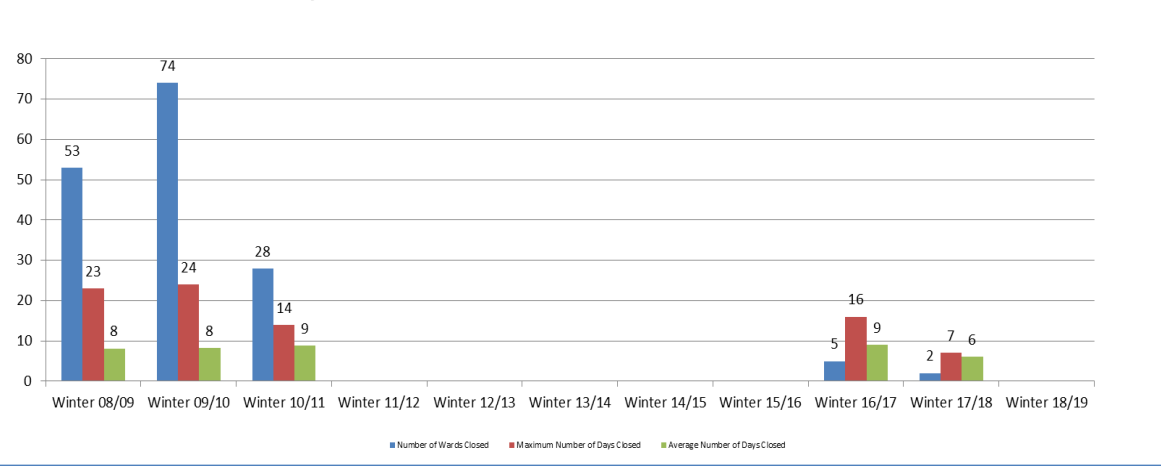
Monthly Flu Cases Winter 2015/16 to Winter 2018/19 as at June 30<sup>th</sup> 2019

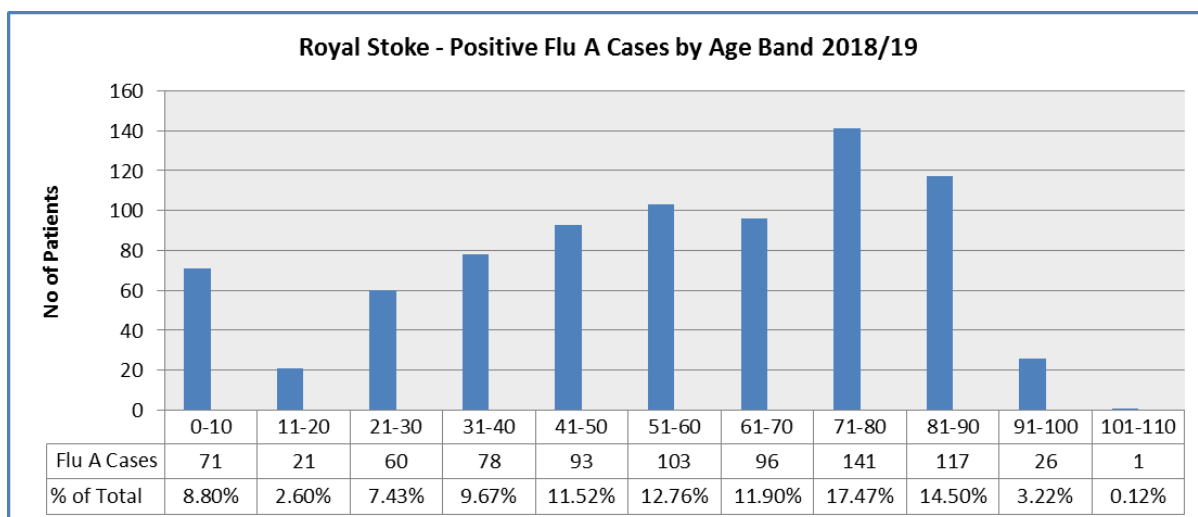


Royal Stoke - Positive Flu Cases by Specimen Month - Winter 2018/19



Winter Analysis of Flu Related Ward Closures 2008/09 to 2018/19





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

There was one Respiratory ward that identified a number of patients colonized with CPE in their gastrointestinal tract through routine screening. External cluster meetings were held.

Control measures have continued, including a terminal clean with Virusolve and enhanced CPE screening for admissions, weekly and discharge. The situation is being closely monitored for any new cases since the enhanced cleaning processes and refresher training, together with an action plan has been put in place.

Surveillance and control measures continues.

### **Pneumocystis Pneumonia Outbreak**

In March 2019 cases of PCP (Pneumocystis Pneumonia) from the clinical sample (sputum and BAL) were identified by the Renal Team

PCP is caused by a fungus *pneumocystis jirovecii* and spread by droplet transmission. It is a significant problem for patients who are severely immunocompromised . Incubation is slow, up to three months.

Six of the patients are post renal transplant patients and have been traced to present in the transplant clinical at Royal Stoke Hospital at the same time, which is where transmission is thought to have occurred.

An outbreak was declared and a number of actions put in place, together with the completion of a Serious Incident Report.

No lapses in care have been identified

Other hospitals that had experienced similar outbreaks were contacted to implement lesson learnt from there.

## **Compliance Criteria 6:**

**Systems to ensure that all care workers (including contractors and volunteers) are aware of the discharge of and discharge their responsibilities in the process of preventing and controlling infection.**

At the UHNM infection prevention is included in all job descriptions. All clinical staff receive training and education in optimum infection prevention practices.

Occupational Health services are provided by Team Prevent.

### **Seasonal Staff Influenza Vaccination Campaign**

Planning for the 2018-19 seasonal flu vaccination campaign is well established, covering both sites, Training for the 78 vaccinators was held during September 2018. The campaign officially began on 1<sup>st</sup> October 2018 with a wealth of information/videos available to staff on the UHNM intranet as well as the locally based flu champions. A 24 hour flu jab-a-thon was held on the first day of the campaign.

The campaign launched on 1<sup>st</sup> October 2018 and at the end of week 22 had 108.2% of our target front line staff vaccinated. There is a national CQUIN for staff seasonal flu vaccination during 2018-19. 8020 vaccinations were administered which is the highest number of staff ever vaccinated at UHNM.

UHNM has been invited to speak at a conference in April in Manchester re the fantastic vaccination work done at UHNM. UHNM were also one of ten trusts identified by The London School of Hygiene & Tropical Medicine who came on site last Friday and interviewed staff and are conducting a research study on behalf of NHS Improvement and Public Health England entitled: A service evaluation of the national seasonal influenza vaccination programme aimed at frontline healthcare workers within the NHS. This will be used to shape next winters national flu vaccination campaign.

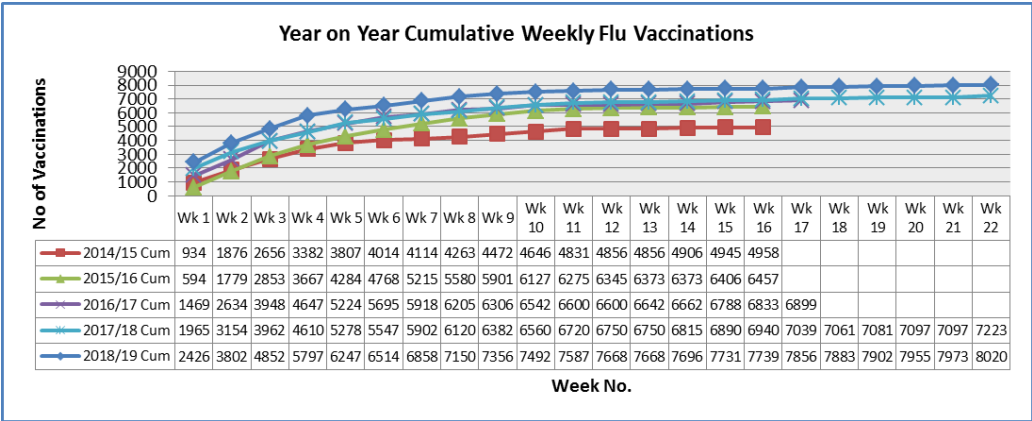
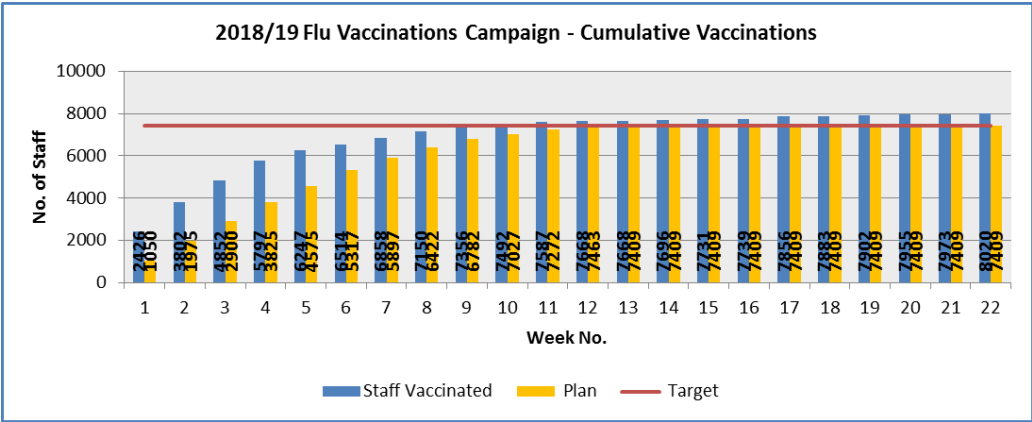
The Seasonal Influenza Vaccination Group continues to meet regularly throughout the year, with minutes presented at the IPCC. This Group reflects and debriefs on the previous campaign to ensure lessons are learnt as well as new initiatives introduced (from national forums and information sharing). The group includes representation from the IPT, Pharmacy, Nurse Education, Communications and Occupational Health as well as working collaboratively with colleagues from the Public Health Team in the local Council to cover all UHNM locations.

The 78 vaccinators supported by 74 champions in all clinical areas. Vaccination training was organised for three separate dates in September 2017. This training is well supported by the Infectious Diseases, Resuscitation, Nursing Directorate and Pharmacy teams. This year on-line (via VCTMS) training has been introduced for established vaccinators to gain refresher training. Both vaccinators and champions are well supported by the Lead Vaccinator from the IPT. PGDs for the flu vaccine and adrenaline have been completed and circulated.

The Occupational Health Department (Team Prevent) work very closely with the vaccinators so that there is a seamless inter-woven campaign.



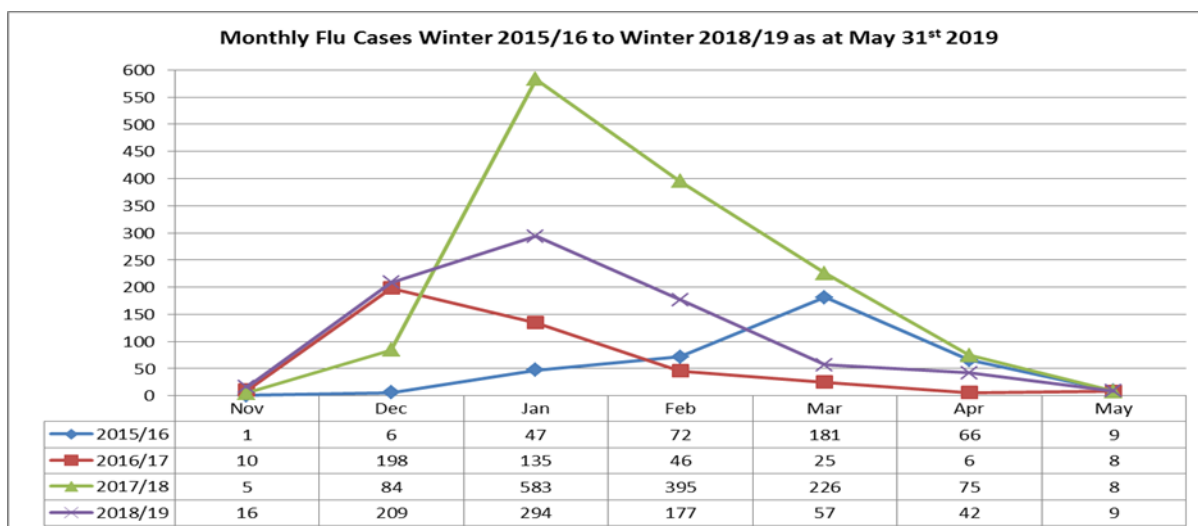
The Communications Team are integral to the whole planning process and have a well-rehearsed plan to communicate important messages to staff, including myth busting. This year, six short videos have been produced, which staff can access. The videos include myth busting messages as well as staff and patients who have experienced the effects of influenza. In addition to the vaccinators and champions within every clinical area, vaccination clinics and a roving service will operate. In addition, this year a new 'choose and book' service will augment the provision, allowing staff to book a timeslot. Discrete groups of staff have vaccination clinics organised within their area, for example Estates, HSDU and Pathology. UHNM Pot Luck has this year donated several large tubs of sweets as an initiative to entice staff to be vaccinated, and Sodexo have kindly donated £5 vouchers for staff to have a weekly draw covering the first 10 weeks of the campaign. Additionally a £10 voucher will be drawn at the end of October, November and December.



8,030 vaccines was given which is the highest ever number of staff vaccinated in previous years.







During the 2018/19 campaign the quadrivalent vaccine was used which will contained two 'A' strains' and two 'B' strains of Influenza.

## **Compliance Criteria 7:**

**Provide or secure adequate isolation facilities.**

### **Royal Stoke Hospital**

#### **Single Bed Rooms & En Suites**

##### Trent Building

	No. of Single Rooms	No. of En Suites
<b>Ward 120/121</b>	6	0
<b>Ward 122/123</b>	6	0
<b>Ward 124</b>	16	16
<b>Ward 126</b>	0	0
<b>Ward 127</b>	0	0

##### Lyme Building

	No. of Single Rooms	No. of En Suites
<b>SSCU</b>	2	0
<b>Ward 100/101</b>	5	3
<b>Ward 102/103</b>	7	4
<b>Ward 104/105</b>	7	3
<b>Ward 106/107</b>	8	4
<b>Ward 108/109</b>	8	4

<b>Ward 110</b>	12	12
<b>Ward 111</b>	12	12
<b>Ward 112</b>	12	12
<b>Ward 113</b>	10	10

### Maternity Centre

	<b>No. of Single Rooms</b>	<b>No. of En Suites</b>
<b>Delivery Suite</b>	16	16
<b>Neonatal Unit</b>	6	6
<b>Ward 205</b>	12	12
<b>Ward 206</b>	12	12
<b>Midwifery Birthing Centre</b>	12	12

### Cancer Centre

	<b>No. of Single Rooms</b>	<b>No. of En Suites</b>
<b>Oncology Day Unit</b>	5	5
<b>Haematology &amp; Oncology Inpatients</b>	20	20

### West Building

	<b>No. of Single Rooms</b>	<b>No. of En Suites</b>
<b>FEAU</b>	4	4
<b>Ward 78/79</b>	8	2
<b>Ward 80/81</b>	4	0
<b>Ward 76a</b>	3	1
<b>Ward 76b</b>	3	1

**Ward 76b have 4 pods around bed spaces**

### Main Building

	<b>No. of Single Rooms</b>	<b>No. of En Suites</b>
<b>CDU</b>	4	3
<b>215</b>	0	0
<b>216A</b>	4	4
<b>216</b>	9	9
<b>217</b>	9	9



217B	5	5
218	15	15
CCU	3	0
220	13	13
221	10	10
222	10	10
223	16	16
225	16	16
226	10	10
227	10	10
228	16	16
230	16	16
231	10	10
232	10	10
233	16	16

Isolation Rooms	
PICU	2 single rooms with positive pressure gowning lobby
Emergency Department	1 isolation room with balanced pressure gowning lobby
Infectious diseases (Ward 117)	4 negative pressure isolation rooms

Side rooms within Critical Care	
Standard Side Room (No gowning lobby, neutral air pressure)	
Pod 1	Side room 1
Pod 2	Side room 9
Pod 3	Side room 24
Pod 4	Side room 25
Pod 5	Side room 33
Pod 6	Side room 4

Side rooms within Critical Care	
Isolation Side room (Gowning lobby which is positively pressurised to + 10pa, side room neutral pressure)	
Pod 1	Side room 8
Pod 2	Side room 16
Pod 3	Side room 17

Pod 4	Side room 32
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Side rooms within Critical Care	
Protective isolation room, with gowning lobby, side room positively pressured)	
Pod 5	Side room 35

Side rooms within Critical Care	
Isolation side room ( Gowning lobby which is positively pressurised, side room is negatively pressured to – 10ka)	
Pod 6	Side room 3

Side rooms within Critical Care	
Standard Side Room (No gowning lobby, neutral air pressure)	
Pod 1	Side room1
Pod 2	Side room 9
Pod 3	Side room 24
Pod 4	Side room 25
Pod 5	Side room 33
Pod 6	Side room 4

Side rooms within Critical Care	
Isolation Side room (Gowning lobby which is positively pressurised to + 10pa, side room neutral pressure)	
Pod 1	Side room 8
Pod 2	Side room16
Pod 3	Side room 17
Pod 4	Side room 32

Side rooms within Critical Care	
Protective isolation room (with gowning lobby, side room positively pressured)	
Pod 5	Side room 35

Side rooms within Critical Care	
Isolation side room (Gowning lobby which is positively pressurised, side room is negatively pressured to – 10ka)	
Pod 6	Side room 3



## County Hospital

### **Single Bed Rooms & En Suites**

The extensive refurbishment programme has improved single room ratio in a number of wards which supports infection prevention and the ability to isolate patients with a confirmed or suspected infection.

The High Dependency Unit does not have isolation facilities; this has been raised as a risk on the Divisional Risk Register.

Ward	No. of Single Rooms	Toilet	Shower/bath
<b>Elective Trauma and Orthopaedic Ward</b>	13	13	13
<b>Ward 12</b>	12	12	12
<b>Ward 14</b>	12	12	12
<b>Ward 15</b>	12	12	12
<b>Ward 7</b>	4	3	0
<b>AAU</b>	3	0	0
<b>AMU</b>	3	3	0
<b>Critical Care Unit</b>	0	0	0
<b>A&amp;E</b>	6	0	0
<b>A&amp;E Ambulance corridor</b>	4	0	0
<b>A&amp;E Ambulatory</b>	3	0	0
<b>Chemotherapy Unit</b>	6	3	0
<b>Ward 1</b>	4	3	0
<b>Medical Receiving Unit</b>	3	0	0
<b>Ward 8 Choices</b>	3	3	3

## Compliance Criteria 8:

### **Secure adequate access to laboratory support as appropriate**

Laboratory services for UHNM are located in the purpose built Pathology Laboratory on-site at RSUH. The Laboratory is United Kingdom Accreditation Service (UKAS) accredited.

The Infection Prevention Nurses work closely with the Biomedical Scientists.



## **Compliance Criteria 9:**

**Have and adhere to policies, designed for the individual's care and provider organisations that help to prevent and control infections**

An Infection Prevention Questions and Answers Manual, with an overarching policy is in place at UHNM this significantly enhances the quick location of key infection prevention guidance by our front line staff.

The overarching policy is written in line with the Trust Governance policy which outlines requirements for responsibility, audit and monitoring of policies to provide assurance that policies are being adhered to. Both policy and manual are available for staff to view on the Trust intranet.

Clinical Governance has produced a directory of policies alerting when policies are due for update, policies are also updated prior to review date if guidance is updated.

## **Compliance Criteria 10:**

**Providers have a system in place to manage the occupational health needs of staff in relation to infection.**

All job descriptions include infection prevention responsibility and this message is reiterated during mandatory training. The IPT participate in mandatory updates for all staff groups (clinical and non-clinical). The IPT regularly meet with representatives of the Occupational Health Service to ensure compliance with Criteria 10.

### **Staff Training**

This has been documented earlier in this report.

### **IPN/Team Development**

Infection Prevention Nurses attended the Infection Prevention Society (IPS) conference

IPT have also attended several study days on different aspects of Infection Prevention throughout the year, including Sepsis and tackling Gram negative blood stream infections, regional IV summit, UK annual National ANTT conference, Surgical Site Surveillance, leadership in endoscopy .

Two Infection Prevention Nurses have completed the Infection Prevention Course at Birmingham City University.

All new staff to the Infection Prevention Nurses undergo a two week supernumerary induction programme on Infection Prevention, as well as being issued with a personal copy of a relevant textbook.

A number of the IPT attended UHNM in house training days e.g. Leadership, Appraisal training

Three Infection Prevention Nurses attended a short decontamination course held at UHNM by Wayne Spencer, Authorising Engineer Decontamination.



Monthly education sessions between IPT and Microbiologist were held.

Two IP Nurses attend the Marion Reed Course which is run by the West Midlands Infection Prevention Society branch to help support and educate new junior IP Nurses.

IP support Manager attended Leading Excellence in Endoscopy, Decontamination Specialised Ventilation in Healthcare Premises, Water Conference, Future of Water and Public Health Salford AC.

IP Health Care Assistant attended and passed the Face Fit Tester Training Course.

## Conclusion

Infection prevention is a key marker of patient safety within UHNM, as it encompasses a broad range of factors, from the state of the environment through to the effect of antibiotic use on the selection of organisms such as *Clostridium difficile*, MRSA and CPE. This requires the involvement of all grades of staff, on an on-going basis, and the IPT are central to this.

At UHNM we acknowledge that the Trust has a number of challenges:

- Reduction of Gram negative blood stream infections by 50% by 2021.
- Continuing threat from CPE.
- Reducing the incidence of CDI.
- Reducing the incidence of MRSA bacteraemia.
- Sustainability of Infection Prevention practices across the Trust.
- Monitoring of pharmacy/prescribing data.
- Monitoring of Surgical Site infections.
- National/international threats, e.g. multi-resistant Gram Negative Bacilli; emerging respiratory viruses and working closely with the Emergency Planning Team.



## Appendix 1 Annual Programme of Works 2019-2020

### Infection Prevention Programme of Works for the period April 2019- March 2020

The Trust's aim is to care for patients in a safe environment protecting them from harm with a zero tolerance to avoidable hospital attributable infections.

The document sets out the Trust's objective and priorities risk of infection for the period 1 April 2019 – 31 March 2020.

The intentions detailed below aim to sustain and strengthen the Trust's position in achieving compliance with The Health and Social Care Act 2008: Code of Practice on the Prevention and Control of Infection and Related Guidance (updated 2015) and other key national documents.

The programme details the essential components of the infection prevention service including-

- Surveillance
- Policy development and review
- Outbreak prevention and management
- Quality improvement and audit
- Education and training
- Specialist advice including promoting compliance with regulation, legislation, guidance and evidence based practice.

The following abbreviations are used throughout the document:

DIPC – Director of Infection Prevention and Control

IPN – Infection Prevention Nurse

IPT – Infection Prevention Team

ICD – Infection Control Doctor

CCG – Clinical Commissioning Group

NHSI – National Health Service Improvement

PLACE – Patient Led Assessment of the Care Environment

RON – Resistant Micro-organism Nurse





Objective	Actions	Person(s) Responsible	Time Scale & Priority
<b>Criteria 1</b> Systems to manage and monitor the prevention and control of infection	<b>Assurance Framework</b>		
	<p>Key committees including Quality and Safety Committee and the Trust Board will receive reports and presentations, monthly as a minimum for the former and quarterly for the latter from the DIPC.</p> <p>The DIPC will ensure the Trust Board agree and approve the:</p> <ul style="list-style-type: none"> <li>• Annual Programme of Works</li> <li>• Annual report</li> <li>• Policy, procedure and guidance documents</li> <li>• Cleanliness and Patient Led Assessment of the Care Environment (PLACE) scores</li> </ul> <p>The DIPC will ensure that the Trust Board is made aware of:</p> <ul style="list-style-type: none"> <li>• Emerging issues with the potential to impact upon patient safety and the delivery of clinical services</li> <li>• Unforeseen issues impacting upon progress of the annual programme</li> <li>• Ensure the progress of the annual programme is monitored by the IPT and any identified or emerging issues affecting the programme are reported to members of the group and where necessary escalated to the Trust Board.</li> </ul>	<p>DIPC</p> <p>DIPC</p> <p>DIPC</p> <p>Support Services</p> <p>DIPC</p> <p>Deputy DIPC</p> <p>DIPC</p>	<p>Quarters 1-4</p> <p>Quarter 1</p> <p>Quarter 1</p> <p>Quarters 1-4</p> <p>Annually</p> <p>Quarter 1-4</p> <p>Bi monthly</p> <p>Quarter 1-4</p>



Objective	Actions	Person(s) Responsible	Time Scale & Priority
	<ul style="list-style-type: none"> <li>Ensure that the Infection Prevention Control Committee meet bi-monthly and is chaired by the DIPC.</li> </ul>	Deputy DIPC	Bi -monthly
	IPT to attend Health Economy Antimicrobial Meetings	Deputy DIPC	Quarterly
	IP Deputy DIPC any Health Economy meeting organised by the CCG	Deputy DIPC	As required
	Infection Prevention Nurse to attend Trust Antimicrobial Stewardship Group	Lead Nurse Infection Prevention	Bi Monthly
	<p><b>Performance Management</b></p> <p>Ensure that the Quality, Safety and Compliance Team receive appropriate information to support on-going registration with the Care Quality Commission</p>	Governance	As required
	Report on progress against the HCAI assurance framework. strategy including emergency and elective screening compliance	Deputy DIPC	Monthly
	Quarterly report to Quality Assurance Committee	Deputy DIPC	Quarterly
	Ensure that monthly data summaries, incidents and outbreaks are included in the Quality and Safety reports.	Deputy DIPC	Monthly
	Deputy DIPC meeting with CCG to review Clostridium <i>difficile</i> root cause analysis and agree unavailability/avoidability	Deputy DIPC	Quarterly
	Update any Infection Prevention risks on risk register	Deputy DIPC	Bi Monthly



Objective	Actions	Person(s) Responsible	Time Scale & Priority
	<p>Make a suitable and sufficient assessment of the risks of infection and take actions to minimise the risk</p> <p>Using ICNet, review laboratory reports during periods of duty and provide specialist advice to clinical teams on the management of individual patients.</p> <p>Undertake alert organisms surveillance report to IPCC</p> <p><b>Outbreaks</b></p> <p>Respond to and advise on the management of outbreaks of infection</p> <p>Where required report outbreaks of infection as a SI through Trust reporting systems. Inform the DIPC, senior management, Heads of Services, Performance Management and key individuals of outbreaks</p> <p>Initiate the Root Cause Analysis investigation process</p> <p>Prepare outbreak summary reports and submit to IPCC, Quality and Safety Forum and the Board.</p> <p>Root cause analysis performed for hospital attributable clostridium <i>difficile</i> cases</p> <ul style="list-style-type: none"> <li>• Learning and actions owned and received at divisional IP meetings and summary to IPCC</li> </ul>	<p>IPT / ICD/Consultant Microbiologist</p> <p>IPT</p> <p>ICD and Senior Data Analyst</p> <p>IPT</p> <p>IPT</p> <p>IPT</p> <p>IPT</p> <p>Associate Chief Nurse/Matron/Ward Sister/Ward Charge Nurse for the Division/ IPT</p>	<p>Daily</p> <p>Daily</p> <p>As required but at least bi monthly</p> <p>Within 24 hours</p> <p>No later than 48 hours after incident or lapse in care is identified</p> <p>Within 24 hours</p> <p>At next IPCC</p> <p>As required</p>



Objective	Actions	Person(s) Responsible	Time Scale & Priority
	<p>Post infection review for all MRSA bacteraemia</p> <ul style="list-style-type: none"> <li>Learning and actions owned and received at divisional meetings and summary to IPCC</li> </ul>	Associate Chief Nurse/Matron/Ward Sister/Ward Charge Nurse for the Division/ IPT	As required
	Facilitate Screening of alert organisms e.g. MRSA, Multi drug resistant organisms admitted or transferred to UHNM in accordance with National guidance and evidence based practice	IPT/Senior Data Analysis	Quarter 1-4
	Participate in multi- disciplinary review of Clostridium difficile toxin positive patients	Infection Prevention Nurse/ Microbiologist/Dietician/ Pharmacist/Gastroenterologist/ Surgeon	Weekly Quarterly
	Maintain and review Clostridium difficile action plan and Submit to CQRM bi monthly	Deputy DIPC	Bi -Monthly
	Monthly Clostridium difficile 30 day all-cause mortality report	Deputy DIPC	Bi- Monthly to IPCC
	<p><b>Surgical Site Surveillance</b> Infection Surveillance programme in place. Feedback to Directorate Meetings</p>	Clinical Surveillance Team IP	Quarters 1-4
	GIRTH participation	Clinical Surveillance Team IP	Quarters 1-4
	Review and update Gram negative action plan and submit CQRM bi monthly	Clinical Surveillance Team IP	Bi-Monthly
	<p>IPT to attend and provide specialist advice:</p> <ul style="list-style-type: none"> <li>Infection Prevention Divisional meetings</li> </ul>	IPN	Bi -Monthly



	<ul style="list-style-type: none"> <li>• Seasonal influenza vaccination planning group</li> <li>• Sepsis planning meetings Strategic and antimicrobial group</li> </ul>	Deputy DIPC Deputy DIPC	Three times per year  Bi monthly
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Objective	Actions	Person(s) Responsible	Time Scale & Priority
	<ul style="list-style-type: none"> <li>• Trust Antimicrobial Group</li> <li>• Quality and Safety Forum</li> <li>• Health &amp; Safety Committee</li> <li>• CCG Infection Prevention Group</li> <li>• Ventilation group</li> <li>• Water Safety Group</li> <li>• Health Economy Antimicrobial Group</li> <li>• Sharps Steering Group</li> <li>• IP Divisional Meetings</li> <li>• Mortality review meetings</li> <li>• Decontamination</li> </ul>	Lead  Deputy DIPC/  Lead  Deputy DIPC  IP Decontamination Lead  Deputy DIPC  Deputy DIPC  IP Service Development  IPT  IP Lead Nurse  IP Decontamination Lead	Bi -Monthly  Monthly  Bi- Monthly  As Required  Bi- annual  Quarterly  Quarterly  Monthly  Monthly  Monthly  Monthly



Objective	Actions	Person(s) Responsible	Time Scale & Priority
<b>Criteria 2</b> Provide and maintain a clean and appropriate environment in managed premises that facilitates the prevention and control of infections	IPT to attend and provide specialist advice: <ul style="list-style-type: none"> <li>• Multi- Disciplinary Environmental Strategy Group</li> <li>• Water Safety Group</li> <li>• Environmental Health Food Hygiene Inspections</li> <li>• Refurbishment and Building Meetings</li> <li>• Infection Prevention Cleaning Services (Soft FM)</li> <li>• Decontamination Group</li> <li>• Clinical Procurement and Standardisation Group</li> <li>• CPE trial Task and Finish Group</li> </ul> Review of Order to clean clinical hand wash sink Revisit sink cleaning campaign	IPT Deputy DIPC IPT IPT/Service Development Team IPT/Service Development Team IPT/Service Development Team IPT/Service Development Team IPT/Service Development Team IP Decontamination IP Decontamination	Monthly Quarterly Annually As required Monthly Monthly Monthly As required Quarters 2-3 Quarters 2-3



Objective	Actions	Person(s) Responsible	Time Scale & Priority
	Whole room technology explore in house team arrangements	Service Development Team	Quarter 2 & 3
	Re refresh Pooh help line	IP C.difficile nurse	Quarter 2
	Support biofilm research project undertaken by PHD Student Southampton University	Service Development Team	Quarters1-4
	Fans		
	CPE three month trial treatment of drains on 2 wards	Service Development Team	Quarters 1-4
	<b>Quality Improvement Audits</b>		
	IPN to conduct period of increased incidence (PII) audits when PII is identified. Feedback to ward, Matron and Divisions.	IPN	As required
	IPN to conduct <i>Clostridium difficile</i> audit following each hospital acquired case	IPN	As required
	IPN's will undertake a programme of unannounced audits in clinical areas, including hand hygiene audits	IPN/Hand Hygiene Trainer	As required
	Audit tools and programme in place for Divisions/areas to monitor environment. IPN's to support service leads, Matron and Ward Sisters/Charge Nurse	Associate Chief Nurses/Matrons/ Ward Sister/Charge Nurse	Weekly/Monthly/ Quarterly
	Audit platform to enable wards to record audit scores	IP Data Analyst /IP Lead Nurse	Quarter 4
	Cleaning for Credits (C4C) audit programme in place - feedback bi -monthly at IPCC	Facilities Manager	Bi Monthly



Objective	Actions	Person(s) Responsible	Time Scale & Priority
	Prompt to protect audits	IP Team	Weekly
	IPCC to receive summary progress and action plans for Divisions	Associate Chief Nurses/Matron	Bi Monthly
	Critical Care and Theatres to trial new IP quarterly audits	Lead Nurse IP	Quarter 3&4
	<b>Building works and refurbishments</b> IPT to advise on building and refurbishments.	IPT/Service Development Team	As Required
	IP Team to advise on new cleaning products and deep clean programmes	Deputy DIPC/IPT	As Required
<b>Criteria 3</b> Ensure appropriate antibiotic use to optimise patient outcomes and to reduce the risk of adverse event and antimicrobial resistance	Work with partner organisations to ensure that the Trust has systems and procedures which minimise the risk from emerging and resistant organisms	Advance Specialist Pharmacist Antimicrobials/Microbiologist/ ICD	Quarters 1-4
	Representation at Local Health Economy Antimicrobial Group Meeting	DIPC Deputy DIPC/Microbiologist	Quarterly
	Antimicrobial pharmacist to report antibiotic audits to IPCC	Advance Specialist Pharmacist Antimicrobials	Bi monthly





Objective	Actions	Person(s) Responsible	Time Scale & Priority
	Trust signed up for National AMR CQUIN	Microbiologist	Quarters 1-4
	The IP and Antimicrobial Team work closely together. The CQUIN for 2019-20 <ul style="list-style-type: none"> <li>Improving diagnosis and management of lower UTI's in over older people (over 65's)</li> <li>Antibiotic prophylaxis in colorectal surgery</li> <li>Medicines optimisation and stewardship- antifungal stewardship</li> </ul>	Microbiologist/Advanced Specialist Pharmacist Antimicrobials Deputy DIPC/IP Team	Quarters 1-4
	<ul style="list-style-type: none"> <li>Antibiotic consumption reduction ( NHS standard contract)</li> </ul>	Advance Specialist Pharmacist Antimicrobials Microbiologist	Quarters 1-4
	Access to Microbiologist to advise on appropriate choice of antimicrobial therapy		
	Access to microbiology diagnosis, susceptibility testing and reporting of results	ICD/Microbiology Manager	Quarters 1-4
	Sepsis CQUIN part of Trust contract	Deputy DIPC/ Sepsis IP Team	Quarters 1-4
	Strengthening of Sepsis champions and sepsis screening	Deputy DIPC/ Sepsis IP Team	Quarters 1-4
	Sepsis educational material	Deputy DIPC/Sepsis IP Team	Quarters 1-4



Objective	Actions	Person(s) Responsible	Time Scale & Priority
<b>Criteria 4</b> Provide suitable accurate information on infections to service users, their visitors and any person concerned with providing further support or nursing/medical care in a timely fashion.	DIPC to liaise with Communications Team to deliver public messages in times of outbreaks	DIPC	As required
	Patient information leaflets available for the public. IPT to actively participate in promotional activities across the Trust, raising awareness of good practice e.g. visitor's stands / Infection Prevention Awareness Week/ Hand Hygiene World Health Organisation Day	IPT/Service Development Team	Quarters 1-4
	Review public internet page	IPT	Quarter 1
	All <i>Clostridium difficile</i> given a "green alert card" to be presented when receiving future healthcare	Service Development Team/IPT	As required
	Revise resistant antimicrobial micro- organism leaflet to patient	Resistant Organism Nurse (RON)	Quarter 1
	Hand hygiene education for patients	Hand hygiene Technician	Quarters 1- 4
	Explore if hand hygiene key message can be added to standard outpatient letter	Service Development Team	Quarter 1-2
<b>Criteria 5</b> Ensure prompt identification of people who have or are at risk of developing an infection so that they receive timely and appropriate treatment to reduce the risk of transmitting infection to other people	Alert tag system place at Royal Stoke to allow staff to check for current and previous alert organisms to enable proactive approach to IP.	IPT	As required
	RAG rated priority chart available to staff to assist with risk assessment for side room priority allocation.	IPT/ICD	As required
	Norovirus/winter signage displayed throughout the Trust	IPT	Quarter 3-4
	Introduction of Resistant Micro-organism Role with in the IPT	Deputy DIPC/ Lead Nurse	Quarter 1-4



Objective	Actions	Person(s) Responsible	Time Scale & Priority
<p><b>Criteria 6</b> Ensure that all staff and those employed to provide care in all settings are fully involved in the process of preventing and controlling infection.</p>	<p><b>Education and Training</b> Liaise with the Education and Learning Team, Service Leads and Business Managers to ensure all staff are suitably educated in the prevention and control of infection.</p> <p>IPT to attend</p> <ul style="list-style-type: none"> <li>• Teaching and Education</li> <li>• Corporate induction</li> <li>• Mandatory training days</li> <li>• Scheduled programme of updates</li> <li>• Infection Prevention Link Practitioners study days</li> </ul> <p>Planned programme for Student Nurses to shadow the IPT</p> <p>Contribution for the continuous personal development programme for medical and other staff.</p> <p>Provide cascade training for volunteers/porters/catering assistants/domestics about the importance of complying with good practice.</p> <p>Use variety of educational approaches to engage staff e.g. ATP monitoring, PowerPoint, shadowing, on line learning</p> <p>Hand Hygiene and Mask Fit Training</p>	<p>IPT</p> <p>IPT</p> <p>IPT</p> <p>IPT</p> <p>IPT</p> <p>IPT</p> <p>IPT/ICD</p> <p>IPT</p> <p>IPT</p> <p>IPT</p>	<p>Time scale in accordance with documented programmes</p> <p>Quarters 1-4</p> <p>Quarters 1-4</p> <p>Quarters 1-4</p> <p>Quarters 1-4</p> <p>Quarters 1-4</p> <p>Quarters 1-4</p> <p>Quarters 1-4</p> <p>Quarters 1-4</p> <p>Quarters 1-4</p> <p>Quarters 1-4</p>



Objective	Actions	Person(s) Responsible	Time Scale & Priority
<b>Criteria 7</b> Provide and secure adequate isolation facilities	To advise/make recommendations on isolation facilities during refurbishment programmes	IPT	As required
	Inform DIPC where there is lack of isolation rooms or when requirements change e.g. threat of alert organism	Deputy DIPC	As required
<b>Criteria 8</b> Secure adequate access to laboratory support as appropriate	Ensure CPA accreditation of laboratories is current	ICD/Lab Manager	Annually
	Daily laboratory bench round with "on call" microbiologist	IPT	Daily
<b>Criteria 9</b> Have and adhere to policies, designed for the individual's care and provider organisation that will help to prevent and control infections	Amend policies or guidance and any related documents in response to legislation, regulations and evidence based practice.	IPT	As required
	Ensure that existing policies with a review date falling within this period are revised and comply with legislation, regulations, current guidance and evidence based practice:	Service Development Team	Quarter 3-4
	Infection prevention Question and Answer manual in place		



Objective	Actions	Person(s) Responsible	Time Scale & Priority
<b>Criteria 10</b> Providers have a system in place to manage the occupational health needs of staff in relation to infection	Liaise with and support the Occupational Health Department in protecting healthcare workers from infections through:	Team Prevent ICD IPT Health and Safety Department	Quarters 1-4
	The review and follow up of inoculation and/or splash injury		Quarters 1-4
	Work with partner organisation to ensure that the Trust has systems and procedure in place which reduces the risk from emerging and resistant organisms.	ICD IPT	Quarters 1-4
	Lead the planning and delivery of the staff seasonal influenza immunisation programme.	Deputy DIPC	Quarters 1-4
	Team Prevent to report to IPCC	Team Prevent	Quarters 1-4

## References

Department of Health: The Health and Social Care Act 2008: Code of Practice on the prevention and control of infections and related guidance.

<https://www.gov.uk/government/publications/the-health-and-social-care-act-2008-code-of-practice-on-the-prevention-and-control-of-infections-and-related-guidance>

Department of Health: Improving outcomes and supporting transparency

[https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\\_data/file/545605/PHOF\\_Part\\_2.pdf](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/545605/PHOF_Part_2.pdf)

Infection Prevention Society Audit tools. <http://www.ips.uk.net/professional-practice/quality-improvement-tools/quality-improvement-tools/>

