



TRUST BOARD
31 January 2019

AGENDA ITEM	16.4
TITLE OF PAPER	Director of Infection Prevention and Control (DIPC) Report April- December 2018
Confidential	NO
Suitable for public access	YES
PLEASE DETAIL BELOW THE OTHER SUB-COMMITTEE(S), MEETINGS THIS PAPER HAS BEEN SUBMITTED	
Control of Infection Committee	
<u>STRATEGIC OBJECTIVE(S):</u>	
Quality Of Care	<input checked="" type="checkbox"/>
People	<input type="checkbox"/>
Modern Healthcare	<input type="checkbox"/>
Digital	<input type="checkbox"/>
Collaborate	<input type="checkbox"/>
EXECUTIVE SUMMARY	
	This report provides an overview of infection prevention and control performance from April to December 2018.
RECOMMENDATION:	Report for receipt and assurance
SPECIFIC ISSUES CHECKLIST:	
Quality and safety	
Patient impact	
Employee	
Other stakeholder	
Equality & diversity	
Finance	

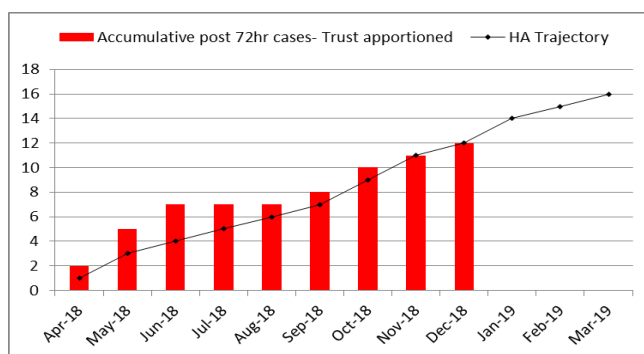
Legal	
Link to Board Assurance Framework Principle Risk	
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PRESENTED BY	David Fluck, Medical Director and DIPC
DATE	19 January 2019
BOARD/TEC ACTION	Receive

1.0 Meticillin Resistant Staphylococcus Aureus (MRSA) Bacteraemias

The target for 2018/2019 remains at zero. There have been no cases to date.

2.0 Clostridium Difficile

The limit for 2018/2019 is 16 post 72hr cases. There were 12 cases from April to September. The graph demonstrates performance against trajectory.



2.1 Clostridium Difficile Cases- Lapses in Care 2018/19

A root cause analysis (RCA) is undertaken for each Clostridium difficile case and this is then reviewed with the CCG to agree whether a lapse in care has occurred. Of the 12 Trust cases to date, 2 have been deemed to have a lapse in care as tabled below (3 are awaiting review by the CCG).

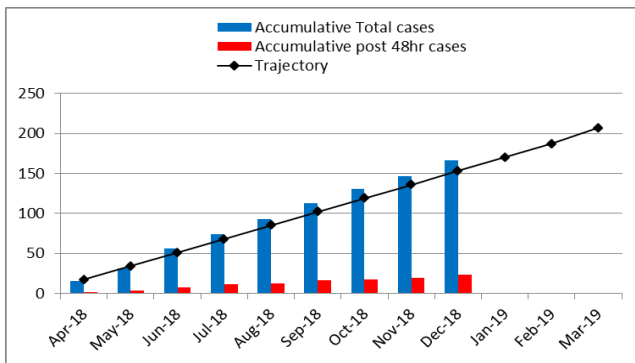
Sample	Ward	CCG Review	Lapse in Care
31.05.18	May	Inappropriate antibiotic prescribing- prolonged course and no review date	Yes
21.06.18	Cedar	Inappropriate antibiotic prescribing and delay in patient isolation	Yes

2.2 Actions to minimise risk of Clostridium Difficile

- The Bristol stool chart has been redesigned to include an assessment flow diagram to guide staff to take appropriate action in cases of diarrhoea and this is currently being trialled.
- The new antibiotic prescribing chart has now been implemented and it is hoped this will enforce the mandatory stop and review.

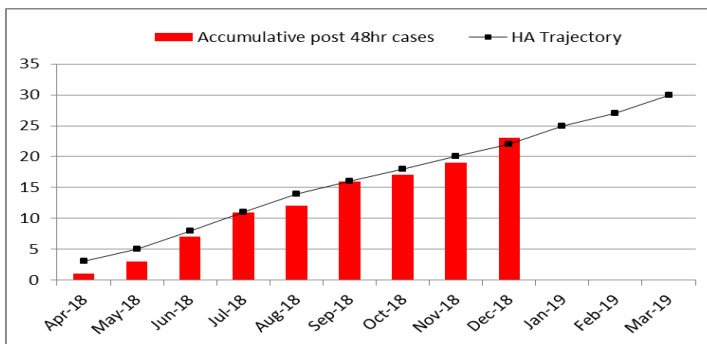
3.0 E.coli Bacteraemias all cases

The reduction target for 2018/2019 is 207 cases. There have been 115 cases between April and September and we are currently 13 over trajectory. 16 have had a hospital onset.



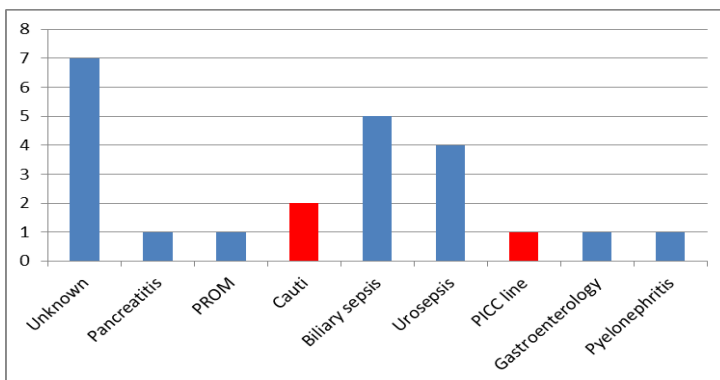
3.1 Hospital Onset Bacteraemias

We have a trust target to reduce hospital onset E.coli bacteraemias by 10% (limit is 30). We had 16 cases between April and September and are on trajectory to achieve this target.



3.2 Source of Infection for Hospital Onset E.coli Bacteraemias

An enhanced review of the 23 hospital onset cases has identified the source of infection as demonstrated in the below graph. Those deemed preventable are highlighted red.



3.3 Actions to minimise risk of E.coli bacteraemias:

- An RCA if the infection was device related (e.g. intravenous device or urinary catheter)
- Development of a new urinary care pathway as part of the National Catheter Program.
- Implanting aseptic non touch technique
- Presenting the case for an IV specialist nurse lead to provide a source of expertise and support IV management across the Trust

4.0 Meticillin Sensitive Staphylococcus Aureus (MSSA) Bacteraemias

There is no Trust reduction target for MSSA bacteraemias. There has been a total of 41 MSSA bacteraemias of which 10 have had a hospital onset in 2017/18. Of the 10 hospital onset cases **4 were IV device related infections.**

5.0 Carbapenemase Producing Enterobacteriaceae (CPE)

The trust continues to follow the National CPE Toolkit to detect and manage CPE. This entails the isolation and screening (3 screens at 48hr intervals) of at risk individuals who have:

- been in hospital abroad in the last 12 months
- been in a UK hospital in the last 12 months
- a history of CPE

Although this approach does put pressure on side room capacity it has been successful in preventing outbreaks and transmission of CPE. Many hospitals are seeing outbreaks which are a clinical risk to patients and are very difficult to control. Unlike MRSA it is not possible to decolonise patients, and CPE is very transmissible, and infections difficult to treat. There have been 6 confirmed CPE cases since April 2018 and all were from screens. There has been no known transmission of CPE.

Surgical Site Infection (SSIs) Surveillance

SSIs account for 16% of all hospital acquired infections. They result in pain, long term morbidity, prolonged length of stay and increased costs. As part of the PHE mandatory national surveillance of hips fracture surgery ASPH was persistently an outlier with an SSI rate above the national average. An improvement group convened to look at guidelines and variations in clinical practice to minimise the SSIs in this cohort of patients. The measures tabled below were introduced.

Pre-operative	Intra-operative	Post-operative
Nutrition	Cleaned theatre air filters	Restrictive transfusion policy
Patient warming	Control of theatre temperature	Single unit transfusion
Skin cleansing	Glycaemic control	Oozy wound protocol
	Tranexamic acid	
	Reviewed antibiotic policy	
	Iodine drapes	
	Cemented prostheses	

This focused work resulted in 257 days without a fractured hip SSI. Ongoing surveillance is required and engagement of other surgical specialities to implement the evidence bundles and minimise infections across other specialities.

6.0 Influenza

6.1 Flu Preparedness Group

Meetings have been commenced to consider the trust plan for managing influenza- including vaccination, infection control, staffing, supplies, vaccine and anti-viral treatment availability.

6.2 Peer Vaccinators

The trust achieved its target to vaccinate 70% of front line staff last winter. The target for this year is 75% and peer vaccinators are currently being trained. At the time of this report 59% of staff have received the vaccine.

6.3 FFP3 Respirator Fit Testing

FFP3 respirators are required to undertake any aerosol generation procedure on a patient with suspected/confirmed influenza. These must be fit tested by a trained individual. Training is planned as part of the wider flu preparedness work to ensure wards/departments can fit test within their own areas.

7.0 Aseptic Non Touch Technique

The trust is committed to the implementation of ANTT to minimise risk of infection from aseptic procedures by standardising practices and having assessment and competencies for staff who undertake these procedures. The Infection Control Nurses delivered ANTT workshops throughout the summer to train and assess 65 trainers. Implementation will now be led locally within the divisions to ensure compliance.

8.0 Antibiotic Stewardship

There has been a significant period without a Microbiologist Antibiotic Lead and a Lead Antibiotic Pharmacist however both posts have new replacements from September to lead on antibiotic stewardship across the trust.

The six monthly antibiotic audit was undertaken in June and shows ongoing poor compliance with stop/review date completion on the drug chart and also poor compliance with indication for the antibiotic. The new drug charts have been implemented since this audit and it is hoped this will achieve improved compliance.

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Criteria	January 18	June 18
Allergy box completed on the drug chart	97%	99.2%
Antibiotics prescribed in line with empiric guidelines	95%	93.3%
Indication box filled out on drug chart	91%	84.4%
Start date filled out on the drug chart	99%	97.6%
Stop/review date stated on drug chart	72%	59.8%
Antibiotic pre-op prophylaxis with correct antibiotics	100%	100%
Antibiotics post prophylaxis if indicated with correct antibiotic	100%	100%

9.0 Outbreaks of Infection

9.1 Diarrhoea on Birch ward.

Bays have been closed on 7 wards since April as tabled below due to reported D&V. Norovirus was the causative organism for most areas and this coincided with norovirus in the community and other hospitals.

Ward	Closed	Patients affected	Staff affected	Cause	Reopened	No. days closed
Birch	02.05.18 Bay C	2	0	-	10.05.18	8
Birch	03.05.18 Bay D	2	0	-	06.05.18	3
Maple	17.12.18 Bay 2	6	0	NV	19.12.18	2
Maple	17.12.18 Bay 3	6	0	NV	20.12.18	3
Maple	17.12.18 Bay 4	6	0	NV	19.12.18	2
Swift	19.12.18 Bay 4	2	1	NV	24.12.18	5
Cedar	19.12.18 Bay 3	4	0	NV	24.12.18	5
Swift	20.12.18 Bay 2	1	0	NV	22.12.18	2
Maple	27.12.18 Bay 1	3	0	-	27.12.18	1
May	02.01.19 Bay 1	3	1	NV	Ongoing	

9.2 RSV on NICU

During November there were 4 babies with confirmed RSV on NICU and 2 rooms were closed to new admissions and transfers for 7 days to minimise transmission and risk of further cases. All babies recovered well.

Ward	Closed	Babies affected	Cause	Reopened	No. days closed
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NICU	18.11.18 RM 2 & 3	4	RSV	24.11.18	7
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10.0 Infection Control Strategy

An overarching infection control strategy has been formulated based on the annual infection control programme (see Appendix 1). There are outcome and process measures to help drive the strategy and a working group is to convene quarterly to review progress.

Appendix 1

