

## Health and Social Services Committee

### HSS(2)-10-05(p.3c)

Date: Wednesday 5 October 2005

Venue: Committee Rooms 3&4, National Assembly for Wales

Title: Hospital Acquired Infection: Evidence from Dr D Nicholas Looker, Honorary Consultant Microbiologist/Infection Control Doctor, Conwy and Denbighshire NHS Trust

## Executive Summary

### Extent of the Problem

The extent of the problem of hospital acquired and other healthcare associated infection (HCAI) is assessed by the process of surveillance. Within the Conwy and Denbighshire Trust, this is achieved in 2 ways.

#### 1. Mandatory surveillance

The Welsh Assembly Government has required NHS Trusts to participate in 4 key areas of mandatory healthcare associated infection surveillance. These are:

- *Staph aureus* bloodstream infections (Annex 1)
- Orthopaedic surgical site infections (Annex 2)
- Outbreak reports (Annex 3)
- *Clostridium difficile* infection (Annex 4)

#### 2. Point prevalence study (Annex 5)

As part of the implementation of the Welsh Healthcare Associated Infection Strategy, the Trust has undertaken a point prevalence study. This provides a snapshot of the occurrence of infection throughout the in-patients of the Conwy and Denbighshire Trust on a specified day and allows differentiation between hospital acquired and community acquired infection for each clinical directorate with some simple information on risk factors

In addition, the Department of Microbiology monitors data on the laboratory diagnosis of infections. Use of standard methods allows monitoring of trends over time. Annex 6 shows the increase in laboratory isolation of Meticillin Resistant *Staphylococcus aureus* (MRSA) infection and colonisation since 1994.

## Measures being taken to address hospital acquired infection

The Conwy and Denbighshire Trust has a long history of effective hospital infection control with an Infection Control Team and Infection Control Committee having been established in the early 1980s. Currently, the Trust has a number of strategic interventions designed to minimise healthcare associated infection.

- Implementation of the Welsh Risk Pool Controls Assurance Standards (see Annex 7).
- Implementation of the Welsh Healthcare Associated Infection Strategy (see Annex 8).
- The Trust has agreed that all directorates will be bound by 3 core strategic interventions
  - The National Patient Safety Agency Clean Your Hands Campaign (<http://www.npsa.nhs.uk/cleanyourhands>)
  - The Welsh Assembly Government Hospital Hygiene Strategy (<http://howis.wales.nhs.uk/doclib/whc-2003-059-pt2-e.pdf>)
  - Mandatory training for all staff.

The Trust has recently committed itself as one of the 4 UK pilot sites for the Safer Patient Initiative and is in the process of implementing the monitoring and interventional care bundles as part of that initiative. This includes Intensive Care Unit infections, MRSA bloodstream infections and orthopaedic wound infections

The Infection Control Team clearly has a key role in the control and reduction in healthcare associated infection. This is delivered in a number of ways. The most important is advice about individual patient management for patients suffering from or at risk of infection. The Team is also responsible for much of the surveillance indicated in the section above and additionally undertakes daily scrutiny of laboratory reports.

This is supplemented by informal reporting of perceived disease clusters by ward based clinical staff to the Infection Control Team. Both aspects are underpinned by a commercial software system called ICNet purchased by the Conwy and Denbighshire Trust for use by the Infection Control Team. This allows for the monitoring and reporting of trends in key alert organisms and conditions. An example is enclosed in Annex 9.

The Infection Control Team is responsible for the delivery of mandatory training and has a key role in the development and review of many infection control policies (Annex 10). This requires the Team to be fully cognisant with up-to-date research and guidance.

## **What more needs to be done**

The National Audit Office's report on healthcare associated infection estimated that between 15 and 30% of HCAs are avoidable. I believe there are a number of areas where significant improvements could be made.

### **1. Surveillance and Information Technology**

Current hospital IT systems are not very effective in assisting surveillance of infection. Access to information on incidence of infection is poor as is information on risk factors; thus, most of the surveillance data currently provided within Trusts has been manually collected, analysed and reported by the Infection Control staff. This is very time consuming and could be made much easier with the development of IT systems that take into account surveillance needs. It is to be hoped that this is something being addressed by Informing Healthcare.

The presentation of information would merit further development as the examples in the Annexes show. Whilst we have quite good information about the occurrence of some infections, it may be quite difficult for clinical directorates and Infection Control Teams to understand how that information can be used to reduce the rate of healthcare associated infections. Closer working with information and audit departments and others may be helpful in this regard.

Structured surveillance should be expanded to cover many of the common procedures and interventions in order to both compare performance and more importantly to inform discussion with patients. Currently, most surveillance is based on in-patients only. As many infections occur in the community, there is a need to expand this to include data capture from the community, although one must recognise that this is both time consuming and expensive. It must be understood that in many cases, surveillance systems are put in place at the same time as new interventions or standards designed to reduce infection rate, and thus, such surveillance schemes may not in themselves demonstrate any improvement in infection rates, but will help clinicians to better inform patients.

### **2. Training**

This Trust has been quite effective in providing mandatory training for staff and it has been shown that this process improves staff knowledge. However, it has been less successful in translating that improved knowledge into behavioural change. It is to be hoped that the planned implementation of an all Wales training package will be helpful in this regard together with any developments that encourage and reward good practice by the provision of positive feedback.

### 3. Hospital services

It is recognised that there is an inverse correlation between staffing levels and effective infection control. Where staffing levels have not increased in line with hospital activity, this puts great pressure on staff in respect of the maintenance of standards in key areas such as hand hygiene and environmental cleaning. Gaps in the provision of ward-based domestic services at particular times of the day are clearly unhelpful. Furthermore, the current level of provision of domestic services is designed to deal with the normal rates of occurrence of infection and may be insufficient to deal with the increased pressure associated with outbreaks of viral gastroenteritis. It would be helpful for Trusts to have in place, hit squads of staff to supplement the standard provision of domestic services under these circumstances. This is a mechanism that is effectively deployed in the travel and other sectors to deal with these problems.

The prevalence study that was undertaken at the Conwy and Denbighshire Trust served to highlight insufficient single room isolation facilities for patients with MRSA and other potentially transmissible infections. This shortfall is currently being addressed by the Trust Estates strategy. Experience in the winter shows that the NHS does not have sufficient surge capacity to deal with a significant increase in hospital admissions due to either respiratory tract infections, influenza or viral gastroenteritis. The presence of targets for A & E waits, for example, increases the pressure on admission of patients to areas that are not ideal for their care or before appropriate cleaning and decontamination can be completed. The associated inter-ward transfers of patients and problems of bed utilisation merely compound the problem of moving infection around the hospital.

### 4. Infection Control team support

There are insufficient resources devoted to the Infection Control Team who currently have to prioritise their activities particularly concentrating on acute in-patient services to the detriment of other services provided by the Trust. The data provided in this report indicates that surveillance is incomplete with little or no post discharge surveillance.

Mandatory training is primarily delivered in classroom setting as opposed to at the point of service delivery, where it is recognised that training interventions are more likely to be effective. It is difficult to have staff released from their clinical duties to participate in training.

The hospitals operate on a 7-day a week basis, however, currently infection control nurse support is only available on a 5 day a week basis – Monday to Friday. Provision of advice and assistance for major outbreaks is on the basis of goodwill rather than having an adequately supported service. Furthermore, the current level of service is insufficient to provide

effective infection control advice in respect of all new developments. Advice is currently restricted to major capital developments.

#### 5. Inclusion of reporting of serious HCAI within Trust critical incident reporting scheme

Currently there is no standardisation of approach for the collection of serious or fatal healthcare associated infection within the critical incident reporting scheme, and as such, it cannot be regarded as completely integrated within the Trust governance system.

#### 6. Information for patients

The recent consultation has indicated very clearly that patients and the public in Wales expect more information in respect to healthcare associated infection, its occurrence, how it can be reduced and steps that Trusts are taking to minimise it. There is much work that can be done to provide information in a meaningful and helpful way for patients, but one of the most important is for them to obtain reliable and relevant information from the Health Service staff responsible for their care. That, in itself, will require a major educational effort to ensure that the message provided by clinical staff is consistent and factually based.

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The opinions herein are those of the author and do not represent Trust policy.



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# Conwy & Denbighshire NHS Trust

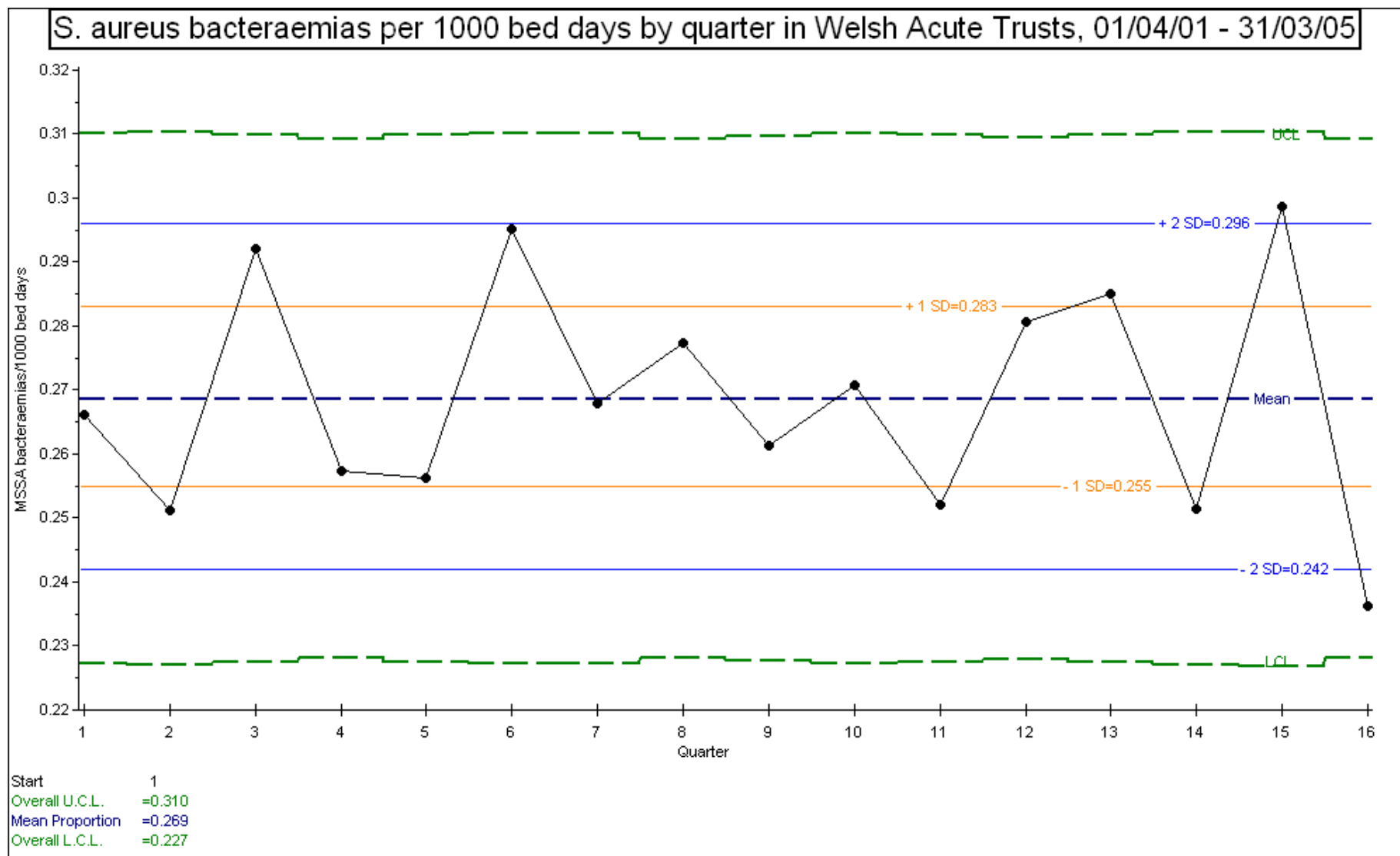
## *Staphylococcus aureus* bacteraemia Surveillance Report

16<sup>th</sup> Report  
01/04/04 – 31/03/05

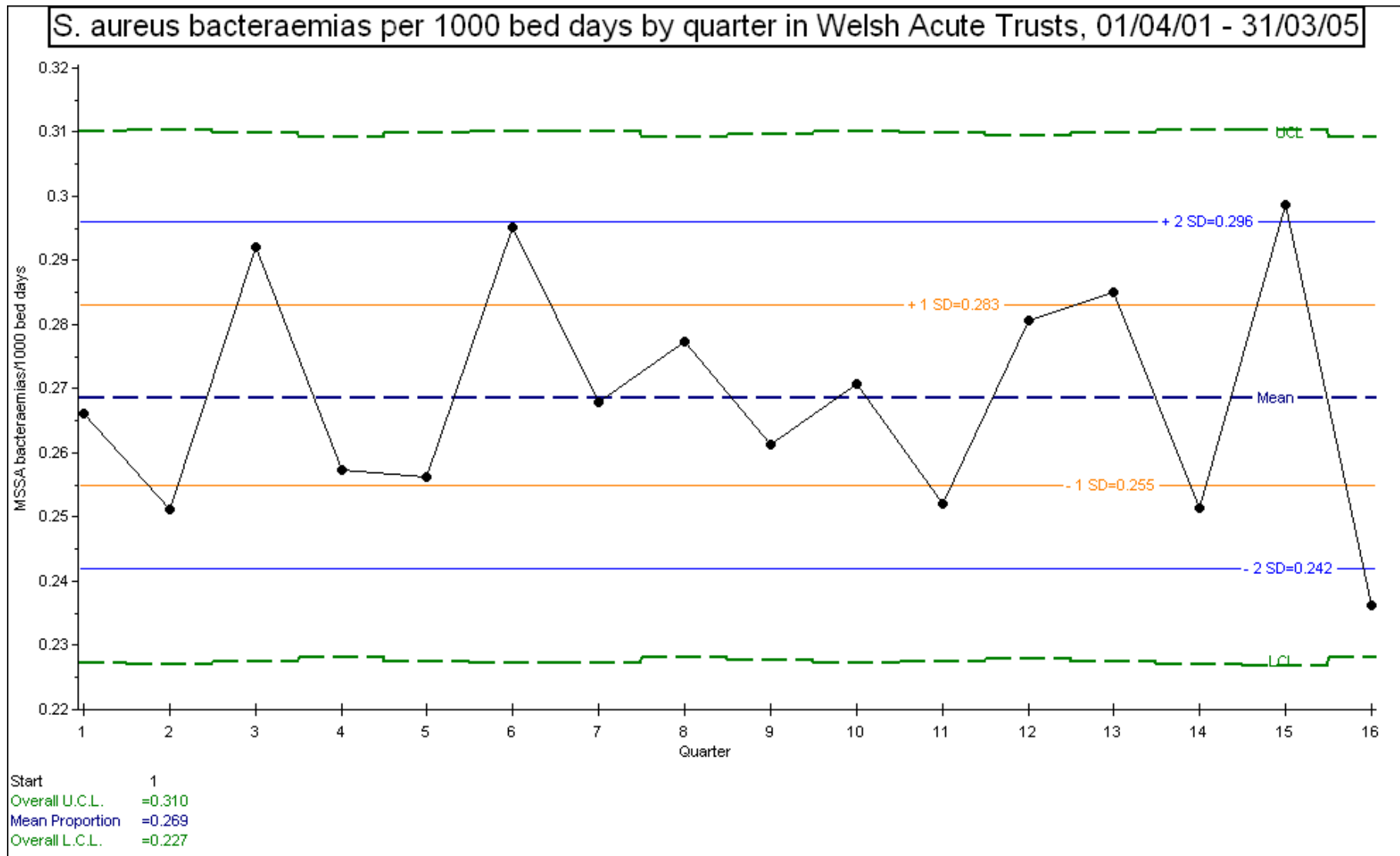
Including Quarterly and Annual Trend Data  
01/04/01– 31/03/05

July 2005

Annex 1

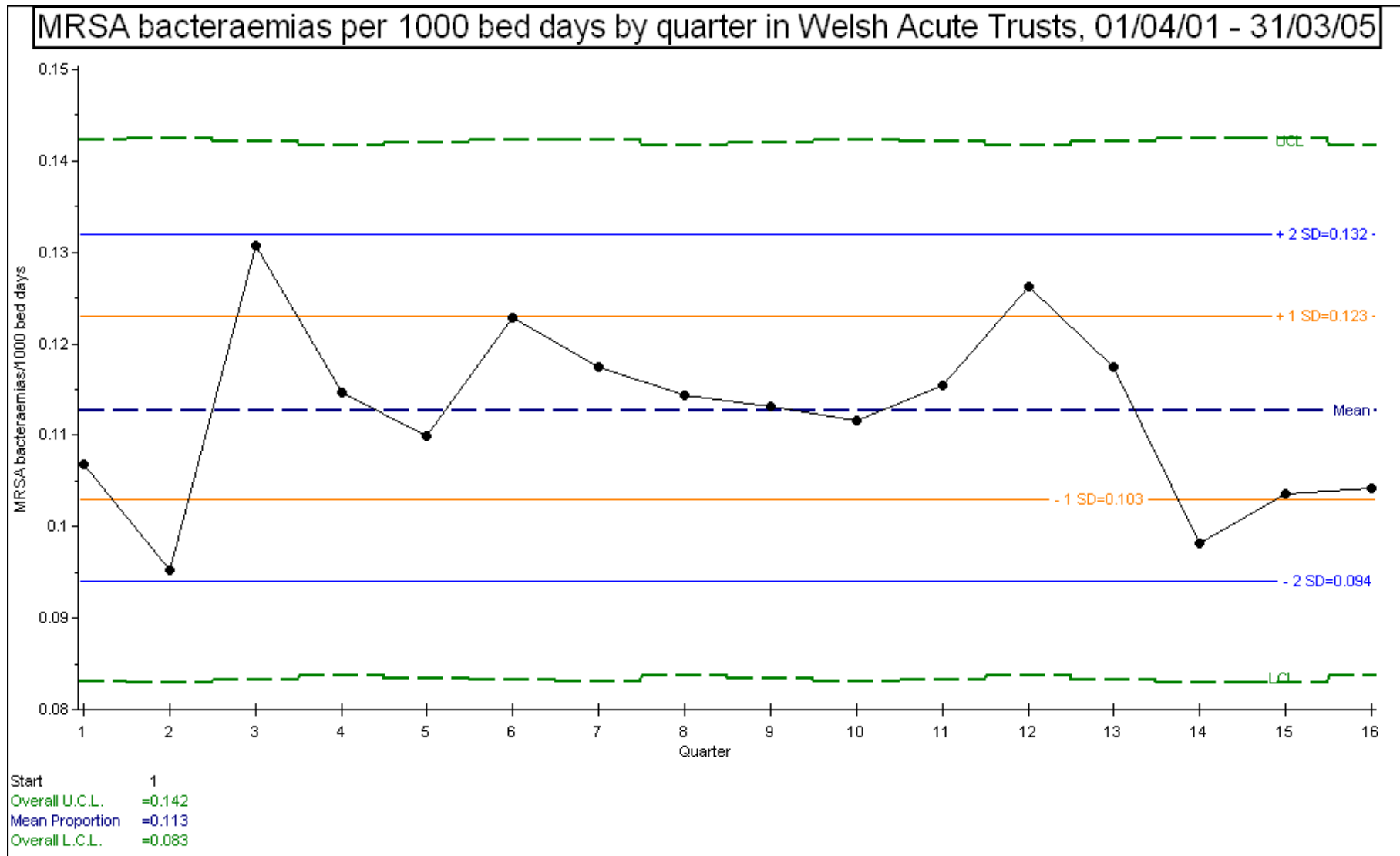


Annex 1

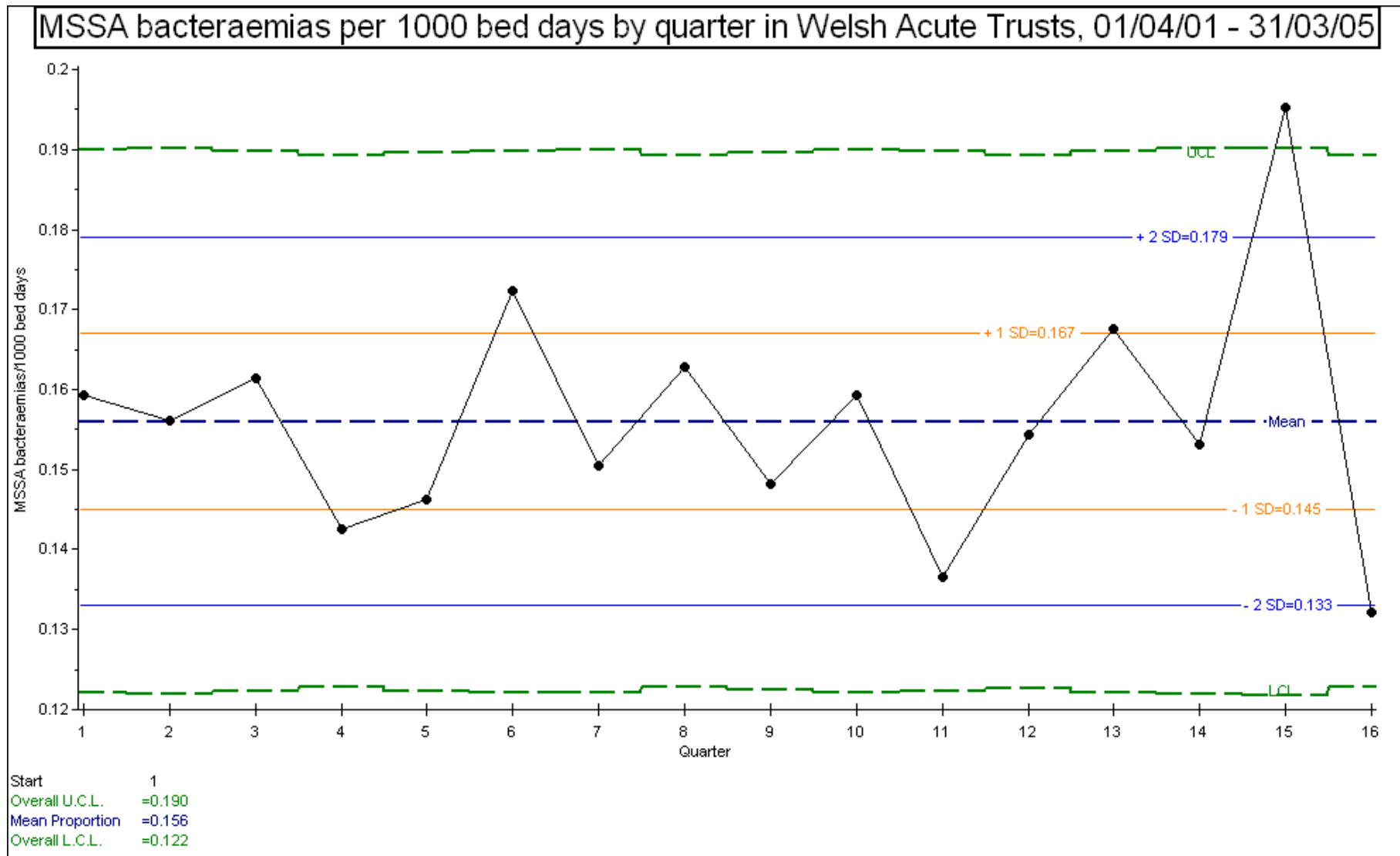




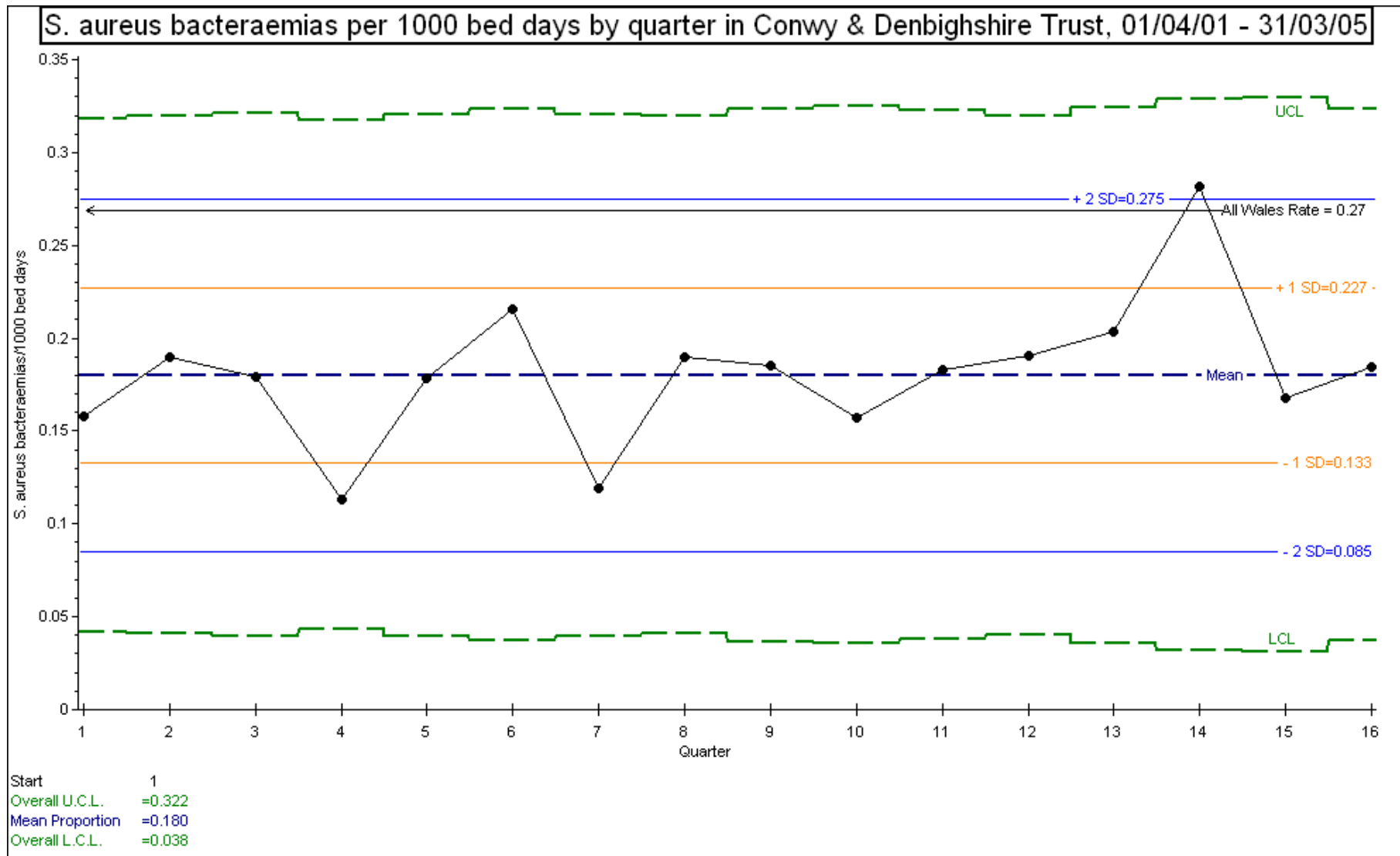
Annex 1



Annex 1



Annex 1

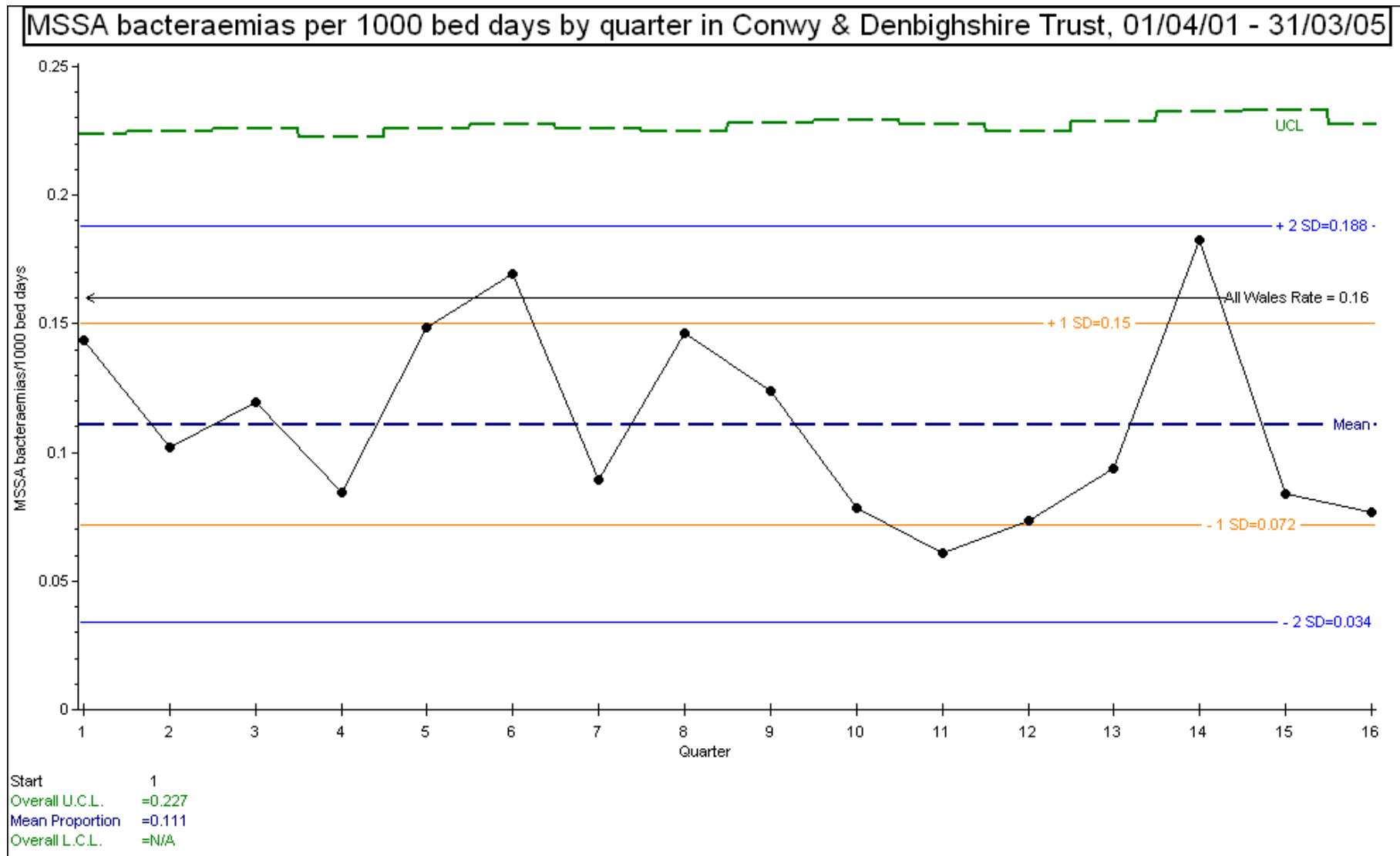




Annex 1



Annex 1





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**Orthopaedic Surgical Site Infection  
Surveillance  
Conwy & Denbighshire Trust**

**Summary Report  
January – December 2004**

- This is a summary of the second national report on surgical site infections (SSI) following orthopaedic procedures in Wales.
- It is provided to complement data that is regularly fed back to NHS Trusts from the Welsh Healthcare Associated Infection Programme to assist units in maintaining low infection rates.
- A full report is available on the WHAIP website (<http://howis.wales.nhs.uk/whaip>).
- Data is available from 7 Trusts in Wales for January to December 2004. 10 Trusts are undertaking this surveillance in 2005.
- The report is restricted to the surveillance of the 4 mandatory surveillance procedures: arthroplasty of the hip, arthroplasty of the knee, hemiarthroplasty and internal fixation of trochanteric fractures of the femur (#NOF).
- From analysis of hospital activity data, it is clear that a large number of procedures are not being reported via this surveillance scheme. Results should therefore be treated with caution.

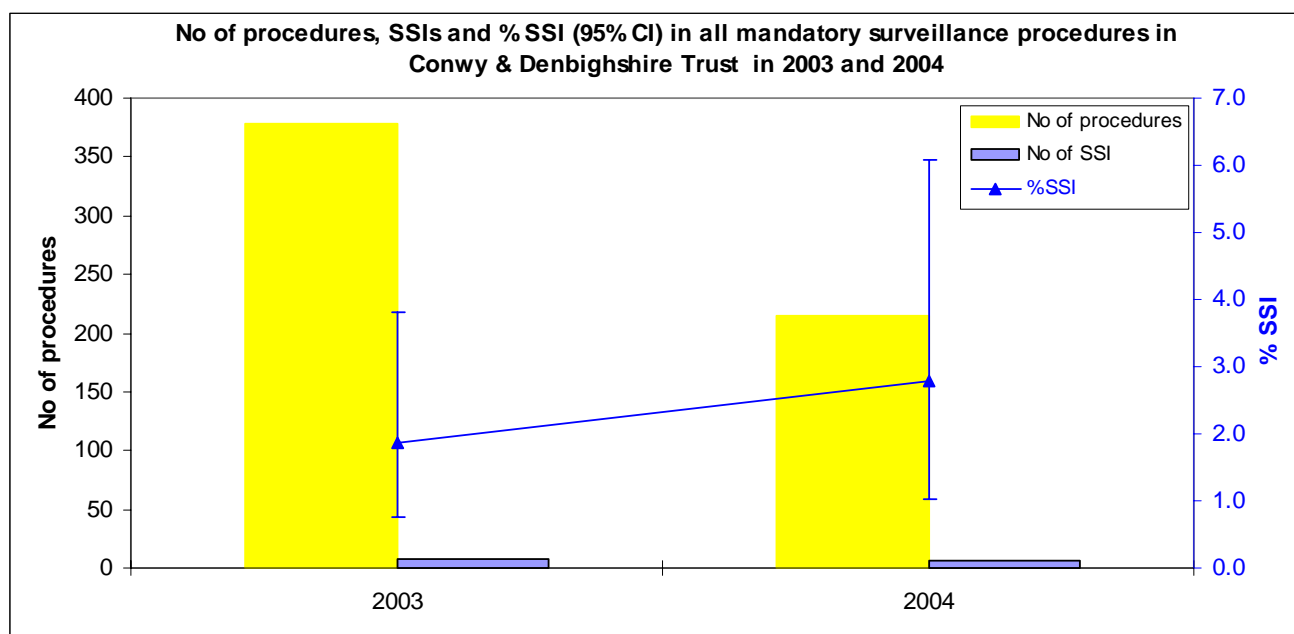
## Results Summary

Table 1. Incidence of SSI by Category of Orthopaedic Surgical Procedure in Wales in 2004

Procedure Category	No. procedures	No. SSI	No. pre-discharge SSI	% SSI (95% CI)	% pre-discharge SSI (95% CI)
All mandatory procedures	1211	38	17	3.1 (2.2-4.3)	1.4 (0.8-2.3)
Hip arthroplasty	527	11	7	2.1 (1.0-3.7)	1.3 (0.5-2.7)
Knee arthroplasty	453	14	4	3.1 (1.7-5.2)	0.9 (0.2-2.3)
Hemiarthroplasty	96	6	2	6.3 (2.3-13.6)	2.0 (0.3-7.5)
#NOF	135	7	4	5.2 (2.1-10.7)	3.0 (0.8-7.6)

Table 2. Incidence of SSI and pre-discharge SSI in all mandatory orthopaedic procedures in Wales in 2004 by Trust

Trust	No. Procedures	% with post-discharge update	No. SSI	No. pre-discharge SSI	% SSI (95% CI)	% pre-discharge SSI (95% CI)
9	292	98%	14	5	4.8 (2.6-8.0)	1.7 (0.6-4.0)
10	25	24%	0	0	0 (0-14.8)	0
11	306	42%	10	4	3.3 (1.6-6.0)	1.3 (0.4-3.3)
25	117	13%	2	2	1.7 (0.2-6.2)	1.7 (0.2-6.2)
34	67	79%	2	0	3.0 (0.4-10.8)	0
C&D	235	0	6	6	2.6 (0.9-5.6)	2.6 (0.9-5.6)
39	169	64%	4	0	2.4 (0.6-6.1)	0



### Key Messages

- There were no significant differences between Trusts within Wales in the rates of SSI for all mandatory procedures.



## Annex 2

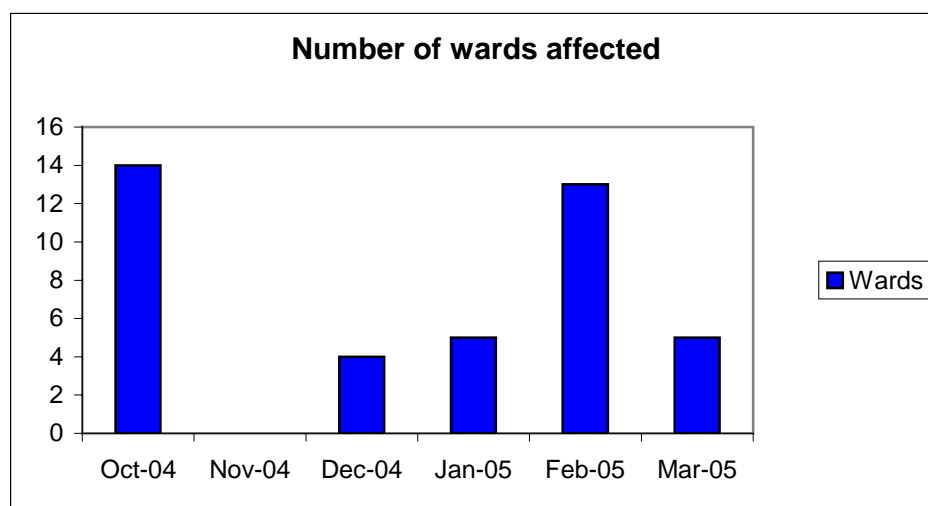
- The pre-discharge rates of surgical site infection in Wales are comparable to those reported for Scotland and Northern Ireland (eg Hip prosthesis: Scotland = 1.6%; Northern Ireland = 0.9%).
- There is no significant difference between the overall rates of SSI in Conwy & Denbighshire Trust in 2003 and 2004.

## **OUTBREAKS OF VIRAL GASTROENTERITIS 2004/05**

### **Summary**

There have been a number of viral gastroenteritis outbreaks (Norovirus) within the Conwy & Denbighshire Trust from October 2004 continuing into March 2005. The trend within the Trust for these outbreaks reflects the significant background level of viral gastroenteritis in the community that has occurred over the winter period.

The most significant areas affected were Care of the Elderly and Medical wards and a small number of Community hospitals. There was a much smaller impact on other divisions. However due to closure of beds in affected areas these outbreaks have had a significant affect on the Trust in respect of resources and lost bed days and necessitated the Trusts major outbreak policy being invoked.



In total there were 543 cases identified in patients and staff, it is estimated that in excess of 50% were community acquired, with the rest as a consequence of in hospital transmission. Ward and bed closures were estimated at 3502 lost bed days.

It was difficult to ascertain the reasons for the continuing length of the outbreaks, however it would seem to be multifactorial:

- Staff working, and visiting within those areas affected, failing to adhere to control measures.
- Inter ward transfer of patients from affected areas to unaffected areas.
- Reductions in staffing due to illness.
- Reintroduction of cases from the community.
- Visitors and staff entering ward areas whilst symptomatic.
- Insufficient single rooms for patient isolation
- Insufficient provision of domestic services to allow timely cleaning of bays/rooms consistent with admission demands

## Annex 3

A series of recommendations for improvements were made to the Trust Board.



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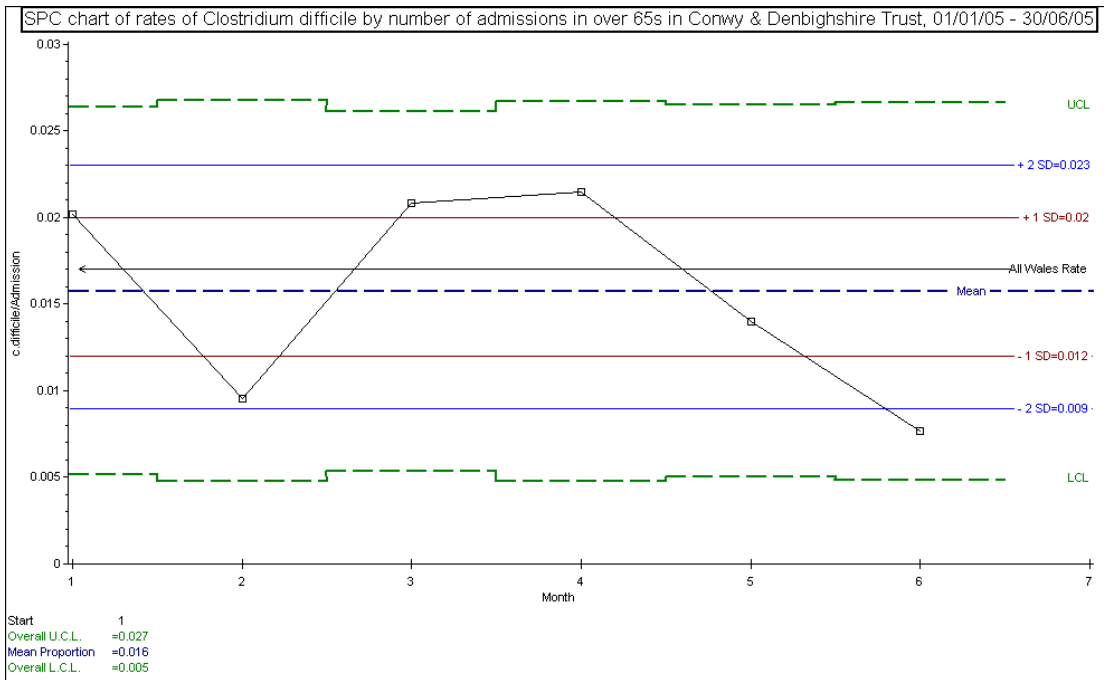
## C.difficile Data

**01/01/05 – 30/06/05**

Annex 4

**Conwy & Denbighshire Trust *C. difficile* Data**

Month	No. <i>C. difficile</i>	Admissions	Rate/1000 admissions
Jan	25	1237	20.21
Feb	11	1154	9.53
Mar	27	1294	20.87
Apr	25	1162	21.51
May	17	1214	14.00
Jun	9	1172	7.68





# **Prevalence of Infection Survey Conwy & Denbighshire NHS Trust**

**1<sup>st</sup> February 2005**

**Prepared by:**

**Joanne Hogan  
Conwy & Denbighshire NHS Trust**

**Dafydd Williams  
Welsh Healthcare Associated  
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## **Introduction**

The prevalence survey was a new venture by the trust, and is designed to assess the overall prevalence of infection of patients in hospitals. The survey would also assess their associated risk factors and sites of infection. A prevalence survey measures the proportion of patients infected at a given time. *Improving Health in Wales – A Plan for the NHS and It's Partners* emphasised the importance of good information to plan service delivery, evaluate progress and demonstrate improvement. Two other Trusts in Wales have also performed a similar study.

Under the current political climate, infection control teams are under enormous pressure to tackle healthcare associated infections (HAI). To reduce the burden of HAI there is a requirement for good, representative baseline data, in order to assess the impact of the measures which have been put in place, and act as focus for future interventions. Each individual directorate within the Trust will receive a directorate specific report. (Appendix4)

## **Method**

An adaptation of the *Hospitals in Europe Link Infection Control Surveillance* HELICS protocol was used for the survey. The Performa was adapted for use with the Eyes and Hands optical mark reader.

A nominated nurse from each ward within the Trust undertook the data collection. The nominated nurse had undergone training on the definitions of the data set and the definition of infection. The aim of the study was to collect the data over a period of one working day using agreed definitions from the Centre for Communicable Disease (CDC) Atlanta. Identified infections were further validated by the infection control team and the nurse specialist from the Welsh Healthcare Associated Infection Programme. 69 identified infections were excluded following validation.

The forms were scanned at the Communicable Disease Surveillance Centre, Cardiff and reported using an Excel spreadsheet which was further analysed by the infection control team locally.

Data was also collected in relation to General Risk Factors associated with the development of infection and the source of patients' admission to the clinical area (Appendix1)

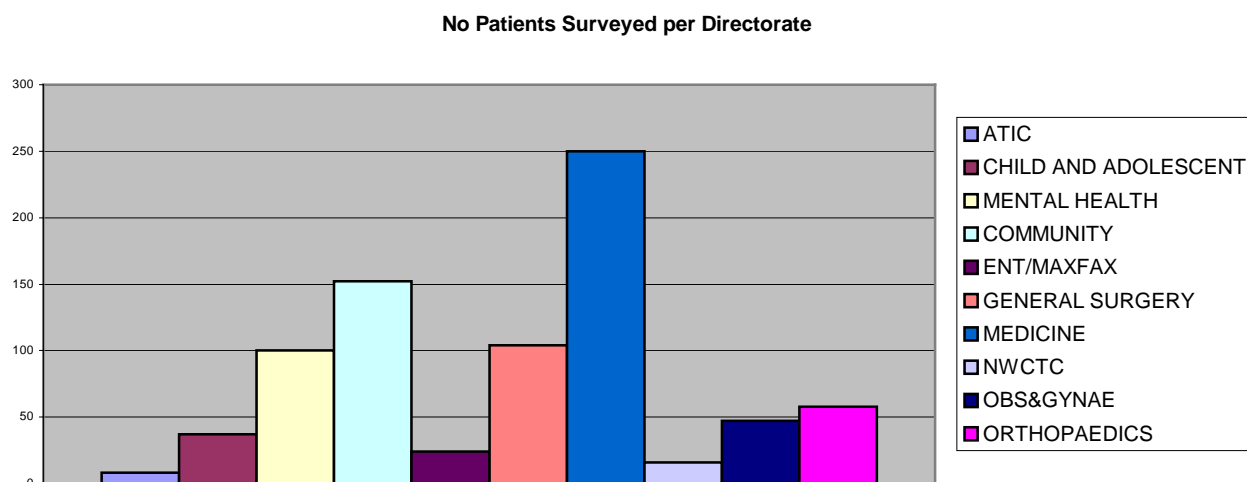
An evaluation of the day was then conducted and reported on in order to inform any future prevalence studies. (Appendix 2)

## Results

### Patient demographics

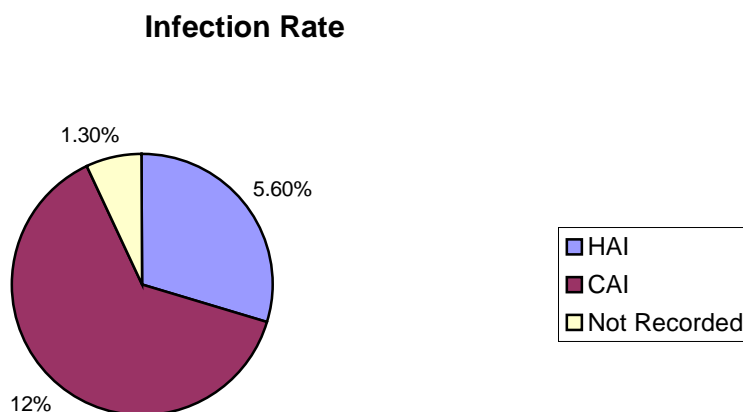
There were 796 patients included in the survey. Males represented 43.2%(n=344) of the population, females 54.1% (n=431), 21 forms did not have gender recorded.

Ten Clinical Directorates were included in the survey. A breakdown on the number of patients surveyed in each directorate is given below.



### System Infections

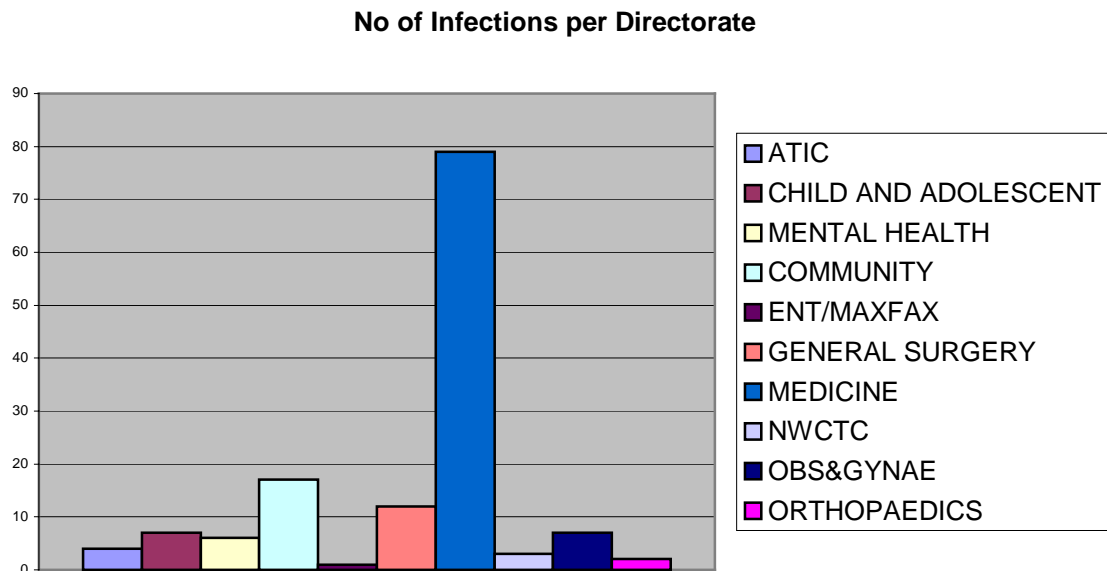
The overall burden of infection for the Trust on February 1<sup>st</sup> 2005 was 17.9% (n= 143). The infections were identified as hospital acquired infection (HAI) and community-acquired infection (CAI). Overall hospital acquired infection accounted for 5.6% (n= 45) and community acquired 12% (n=96). Two forms did not record HAI or CAI.





## Annex 5

138 patients (17.3%) were identified on the day of the survey as having an active infection present. Some patients were identified as having more than one system infection resulting in the number of infections being recorded as 143. The chart below gives a breakdown of the number of patients infected in each directorate.



A comparison can be made in relation to number of patients surveyed in each directorate and no of patients identified as having an infection (Appendix 3)

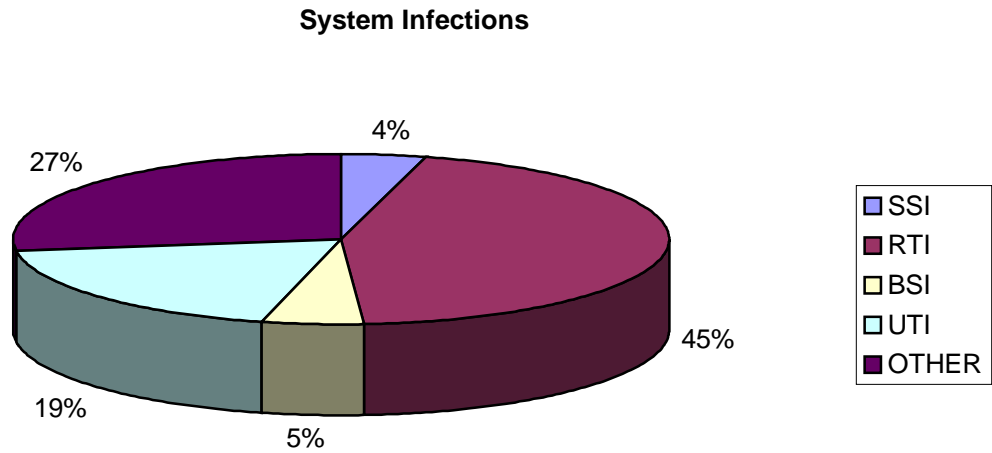
The following table provides a summary of the number of patients surveyed and associated infections per directorate with a breakdown of HAI and CAI.

**Conwy and Denbighshire NHS Trust Point Prevalence Study Data 2005**

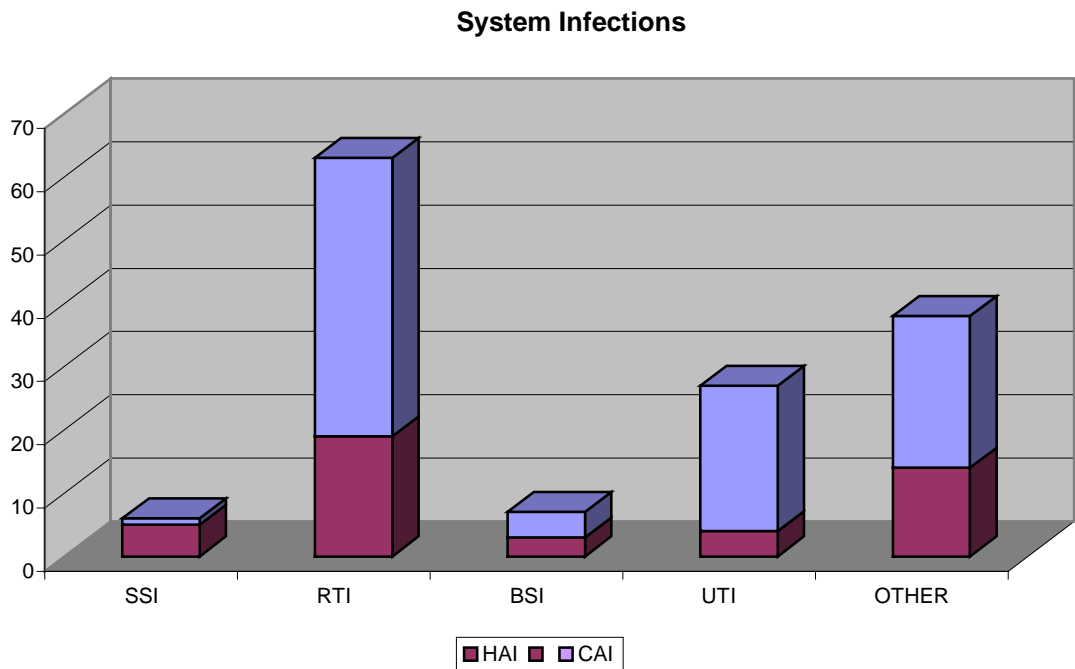
	<b>No Patients Surveyed</b>	<b>No patients with an infection</b>	<b>Overall %</b>	<b>HAI %</b>	<b>CAI %</b>
Anaesthetics, Theatres and Intensive Care	8	4	50%	25%	25%
Child & Adolescent Health	37	7	18.9%	2.7%	16.2%
Mental Health	100	4	4%	2%	1%
Community	152	19	12.5%	5.4%	4.2%
ENT and Oral/Maxillofacial Surgery	24	1	4.1%		4.1%
General Surgery and Urology	104	12	12.5%	4.8%	7.7%
Medicine	250	79	31.6%	6.8%	26.9%
North Wales Cancer Treatment Centre	16	3	18.7%	6.25%	12.5%
Obstetrics & Gynaecology	47	7	14.8%	10.6%	4.2%
Orthopaedics	58	2	4.2%	2.1%	2.1%

**System Infections**

Type of infection was categorised as Surgical Site, Respiratory Tract, Bloodstream, Urinary Tract and Other (which includes skin and soft tissue, gastric illness, bone and joint).



The chart below identifies a comparison of system infections, and whether they are Hospital or Community acquired.



The tables below present the overall prevalence of HAI for Conwy & Denbighshire NHS Trust and compare the study with the results of 1980 and 1994 National Prevalence Survey

Annex 5

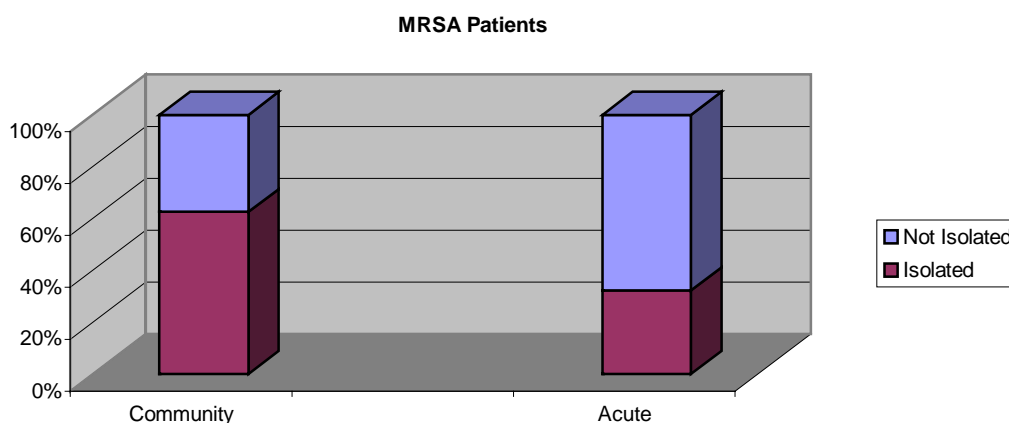
	<b>1980 National Prevalence</b>	<b>1994 National Prevalence</b>	<b>Conwy and Denbighshire NHS Trust</b>
<b>Urinary Tract Infection</b>	2.79	2.41	0.50
<b>Respiratory Tract Infection</b>	1.55	2.38	2.51
<b>Surgical Site Infection</b>	1.78	1.11	0.63
<b>Bloodstream Infection</b>	0.1	0.63	0.38

Another Trust in Wales who also conducted a point prevalence study, using similar data sets and a comparison of the rates of infection are tabled below.

	<b>Conwy &amp; Denbighshire NHS Trust</b>	<b>Another Trust in Wales</b>
Overall Infection Rate	17.9%	18.6%
HAI	5.6%	5.56%
CAI	12%	13.1%

MRSA

4.5% (n=36) of patients were identified in the survey as being carrier of MRSA. Of this figure only 61% (n=22) were isolated in a single room. A comparison can be made between isolated patients in community hospitals and the acute sector.



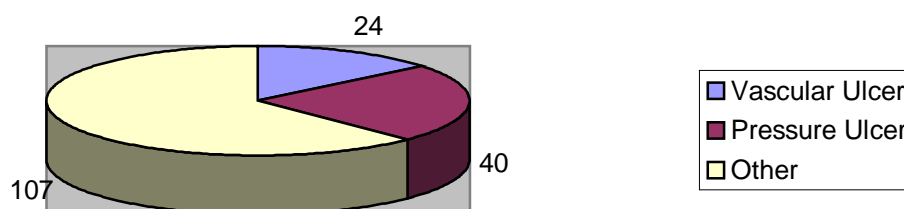
**Break in skin**

Each patient was assessed for a break in the skin including surgery. A non-surgical break in the skin was recorded in 20.9% (n=167) patients. 4 patients had 2 different types of non- surgical break. Non-surgical breaks were classified as Vascular Ulcer, Pressure Ulcer and Other, including cuts, abrasions and skin lesions.

Summary of the type of break in the skin is detailed below.

<b>Conwy &amp; Denbighshire NHS Trust</b>	<b>% number of patients</b>
Vascular Ulcer	14.3
Pressure Sore	23.8
Other	64.0
<b>N = 167</b>	

**Non- Surgical Skin Breaks**

**Surgery**

18.9% patients (n=151) had undergone surgery during this admission period. Data on type of surgical intervention was collected.

<b>Conwy &amp; Denbighshire NHS Trust</b>	<b>% number of patients</b>
Emergency Surgery	58.3%
Elective Surgery	39.7%
Not Recorded	1.9%
<b>N = 151</b>	

Of these figures:

5.2% (n=23) had undergone multiple surgical interventions

9.2% (n=14) had undergone endoscopic surgical procedures

**Invasive Procedures**

A further 35.3% (n=281) patients had undergone other invasive procedures during this admission. Data on patient exposure to an invasive procedure was collected.

## Annex 5

<b>Conwy &amp; Denbighshire NHS Trust</b>	<b>%-number of patients</b>
Percutaneous Drainage	2.5
ERCP	1.1
Other	75.1
Other Endoscopy	9.3
Not Recorded	12.0

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N = 281

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### **Antibiotic Therapy during admission**

Antibiotic Therapy was prescribed to 418 patients (52.5%) on the day of the survey.

#### **Use of Antibiotics**

Part of the survey was to determine the number of patients receiving antibiotic during their current admission. Prescribing was divided into prophylaxis and therapy.

- Those used for prophylaxis (a definition for prophylaxis in that any antibiotic prescribed for more than 24 hours was deemed to be therapy not prophylaxis),
- Those used for therapy.

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<b>Conwy &amp; Denbighshire NHS Trust</b>	<b>%</b>
Prophylaxis alone	22.9%
Treatment Alone	63.3%
Prophylaxis & Treatment	7.4%
Use not stated/Unknown	3.8%

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N = 418

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## **Conclusions**

The survey has provided valuable information that will enable each of the Clinical Directorates to develop their own targeted infection control programme, thus facilitating compliance with the Welsh Assembly Governments recent publication: 'Healthcare Associated Infections: A Strategy for Hospitals in Wales'. The data sets collected will also inform directorates about many other pre-disposing factors which may impact on a patient's susceptibility to developing infection. Directorates should look critically at their individual prevalence data and relate this to their infection reduction plans.

As a Trust Conwy and Denbighshire's Hospital Acquired Infection rate is 5.6%, however it must be emphasised that this is a prevalence figure, and does not imply that 5.6% of patients admitted to the Trust will develop infection. An incidence figure is likely to be lower.

The overall Infection Rates (excluding respiratory tract) are lower than those conducted in previous national survey 1994, however these were calculated from the average taken from 157 centres which included teaching hospitals.

The preliminary results have identified the same major system infections as previous surveys. The most prominent system infection identified is Respiratory Tract Infection, however consideration must be taken into account for seasonal variation (as the study was performed during the winter) and that 68.7% of these were identified as Community Acquired. This high prevalence figure does imply that further investigation is required into the opportunities available to prevent the development of respiratory tract infection within the community and the opportunities for prevention of hospital admission.

A major finding of the study related to antibiotic use. Although only 138 patients were identified as having system infections, 264 were receiving antibiotics for therapy. This information should be critically reviewed by individual directorates, which may identify a need for further audit or investigation into the use of therapeutic antibiotics.

From the data collected it appears that the Trust's Hospital Acquired Rate is far lower than the rate quoted from previous prevalence studies. Limitations to the study however are that the results are reliant on the quality of data collected from the documentation that exists, that some directorates with small numbers of patients surveyed may be misleading, and finally some infections identified in directorates may have originated whilst the patient was in another clinical area.

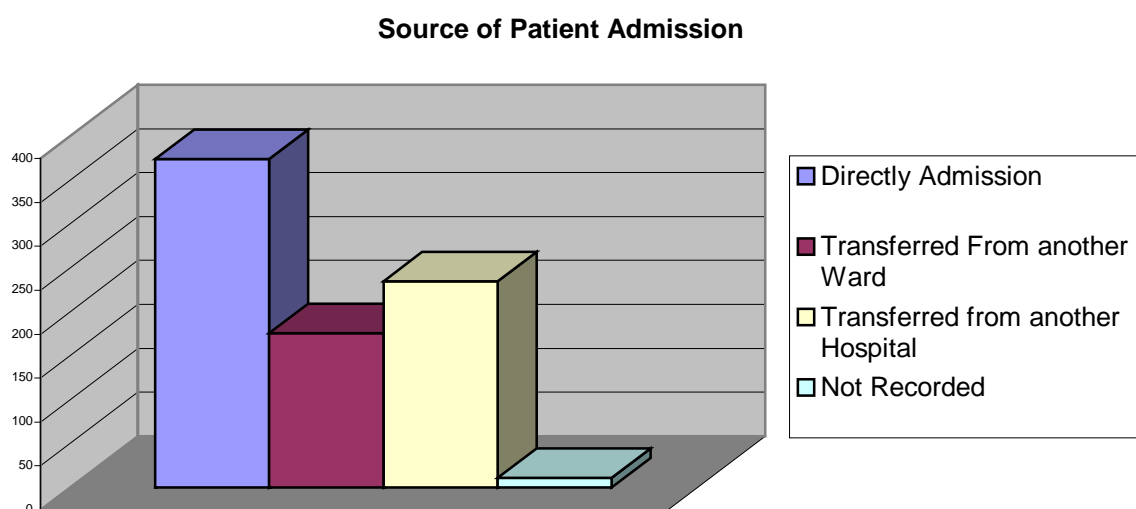
There are currently plans for a national prevalence study in 2006, and the evaluation report (Appendix2) has identified avenues in which the data can be collected more efficiently.

**Appendix 1****General Risk Factors**

General risk factor data was collected on each patient.

<b>Conwy &amp; Denbighshire NHS Trust</b>	<b>%</b>
Urinary Catheter	16.32
Peripheral Venous Catheter	28.33
Central Venous Device	4.27
Parenteral Nutrition	4.27
Mechanical Ventilation	1.75
Immunodeficiency	3.51
Neutropenia	1.00

N = 796

**Data was collected about interhospital/ward transfers**

<b>Conwy &amp; Denbighshire NHS Trust</b>	<b>%</b>
Admitted directly to clinical area	46.9%
Transferred from another ward in the same hospital	29.5%
Transferred from another hospital	22.1%
Not Recorded	1.3%

N = 796



## **Appendix 2**

### **Evaluation of Point Prevalence Study 1st February 2005**

#### **Methodology**

In identifying a process for data collection, clinical directors and leaders were invited to attend a meeting four weeks before the proposed study to explain the process of data collection and request their support, which would involve releasing a member of staff from each clinical area to collect the data. Prior to this meeting support was also gained from the Director of Nursing. All areas offered their support, which proved difficult in some instances due to staff shortages.

Nominations were received promptly and training sessions for the nominated nurses were arranged. The training sessions lasted approximately half an hour and consisted of:

- Disseminating the Point Prevalence Pack
- Explaining each question
- Giving a brief overview of definitions of infection
- Explaining the role of the data collector on the study day

By the day of the study 37 out of 43 data collectors had attended a training session.

The study day was structured to allow a brief overview of the study form and an opportunity for questions. Lunch was provided (again allowing for informal questions) and the study commenced at 1300hrs. Each data collector was allocated an infection control nurse as a point of contact for any queries.

Conwy and Denbighshire Trust also had 14 peripheral hospitals that were included in the study. In order to meet the needs of data collectors in these peripheral areas, training was arranged for them within their areas and they were given a point of contact on the study day for any queries. A small number of data collectors from peripheral sites were able to attend the briefing session on the study day.

The data collection process was completed by 1930 hours on the same day. On average it took 9 minutes to survey each bed however in Mental Health where the patients clinical condition is less complex it only took 5 minutes.

Following the study, the infection control team with the assistance of an ICDS specialist nurse visited each area (including community sites) and validated all forms where an infection had been identified. 208 infections were identified initially and following validation 139 were confirmed as meeting the agreed definitions.

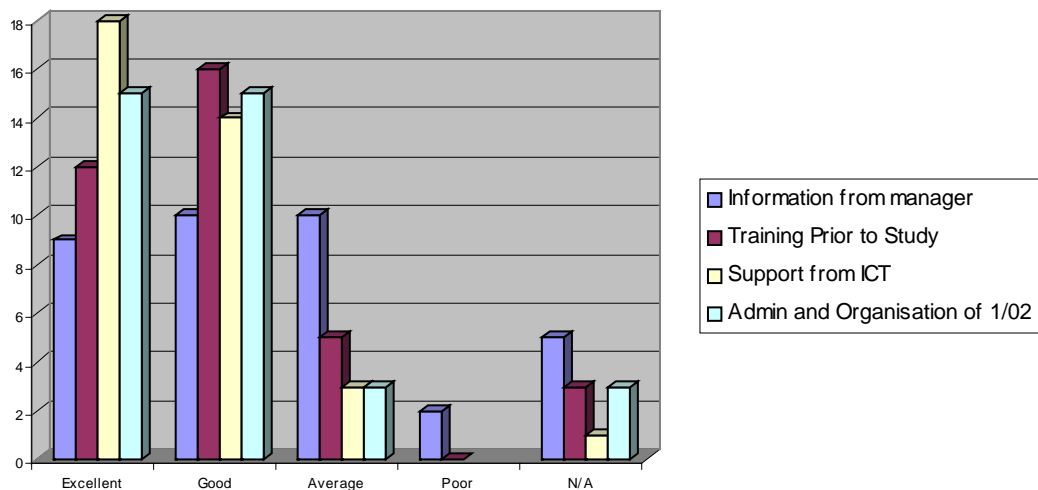
All data collectors were sent Thank you letters together with an evaluation form during the week following the study.

## Evaluation

36 Evaluation Forms were returned, from 43 Data Collectors. (83%)

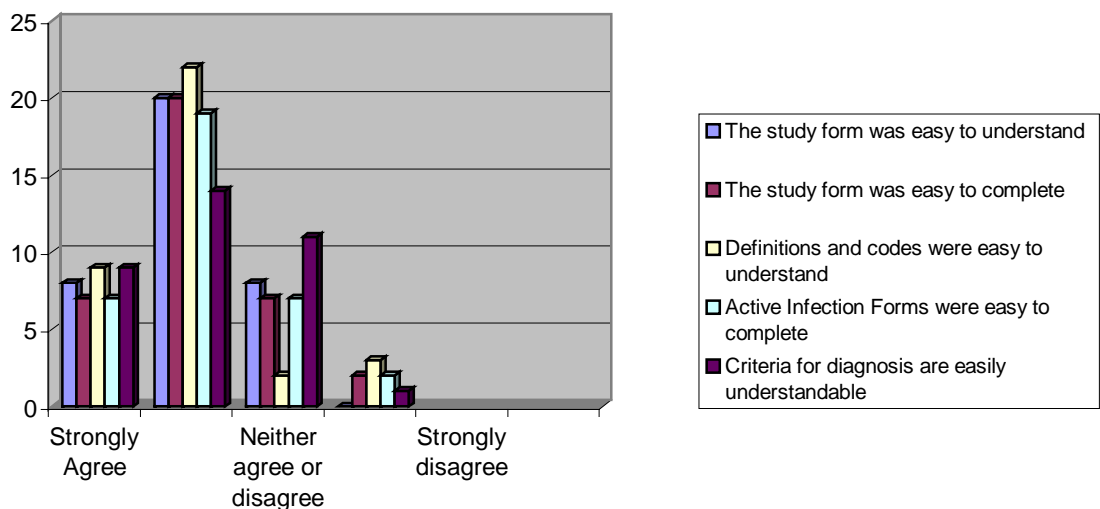
In relation to the support the data collectors received during the study, they were asked to comment of the information received from managers, the training received prior to the study, the support received from the Infection Control Team on the day and the administration and organisation of the day.

How well were you supported during the study



The data collectors were also asked to evaluate the data collection form. They were asked to evaluate how easy the form was to understand and complete. They were also asked how easily understandable the definitions were.

Usability of the form



## Annex 5

Additional Comments received from the data collectors were positive, negative and constructive and included

“Enjoyable and interesting”

“Clear and informative training made answering the questions easy”

“ Too much work for 1 person”

“Criteria for Respiratory Infection difficult to understand – needed separate criteria for Chest Infection”

“ Use of case scenarios during training sessions”

“ To be performed overnight or at the weekend so that disruptions are reduced and notes are readily available”

“More Time Required”

“Support easily available to community hospitals”

“Initially appeared overwhelming but with practice got easier”

“Time consuming for one person – two people made the process easier”

### **Conclusion**

Overall the study was a success. Despite staffing problems each area nominated a data collector. Communication from the infection control team with managers was well structured however the information was not clearly disseminated to the data collectors. The training prior to the study empowered the data collectors to work independently although support from the infection control team was readily available and utilised.

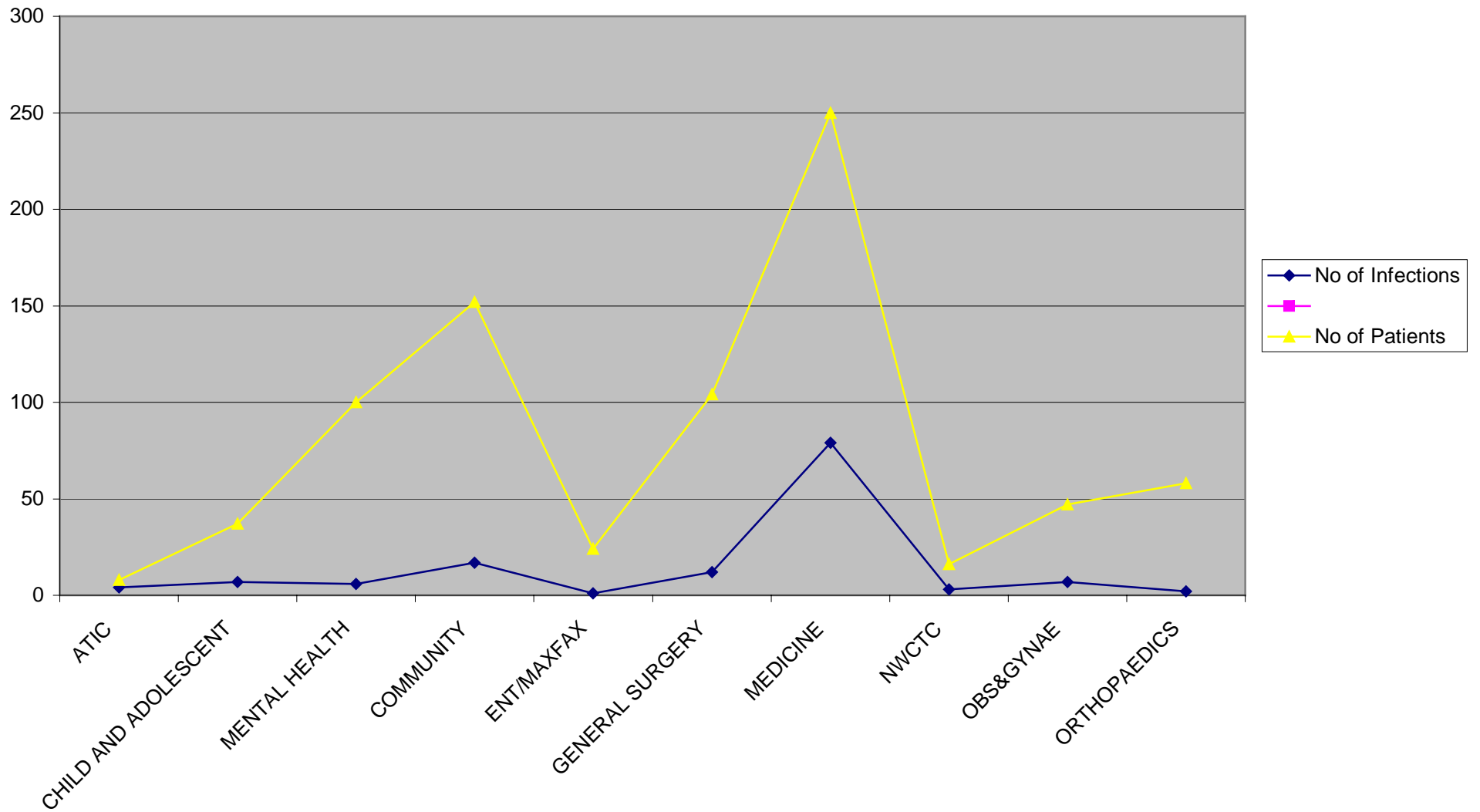
The data collection forms were easy to understand and complete although upon validation it became apparent that that there was some misinterpretation about the presence of infection.

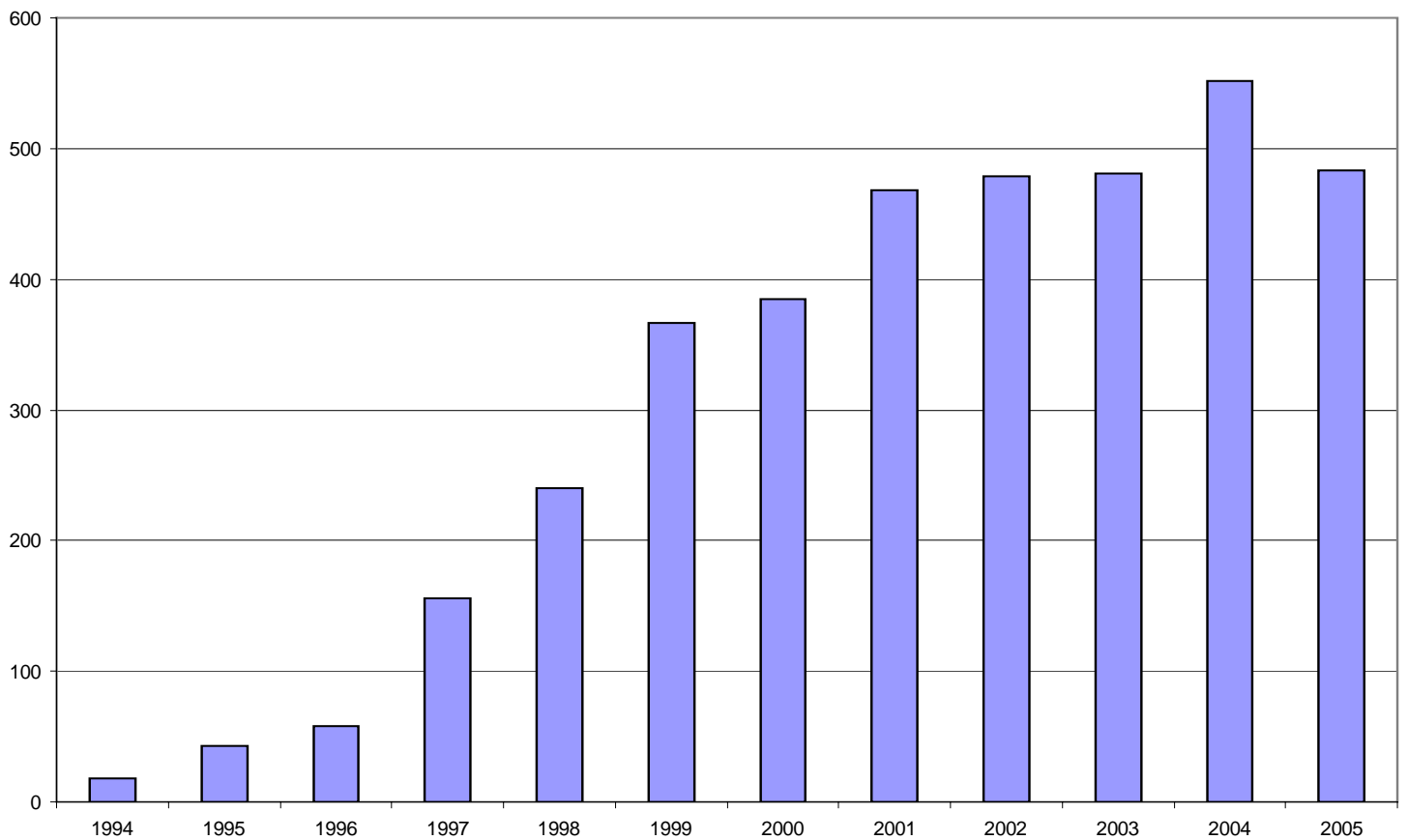
### **Recommendations**

If the study were to be repeated the following recommendations would ease the burden to data collectors

- Longer Training sessions to include case scenarios and increased education about the definition of infection
- More than 1 data collector per acute ward
- Assess the implications of performing the study during a quieter period e.g. early evening or overnight

Appendix 3



**New MRSA Isolates, NPHS Microbiology Rhyl, 1994-2005**

The dramatic rise in occurrence of new laboratory isolations of methicillin resistant *Staphylococcus aureus* is demonstrated. The data set includes patients with asymptomatic colonisation, superficial infection and serious infection, including bloodstream infections. Currently approximately 40% of new cases are detected in the community, although it is believed that most of these are healthcare associated.

## Standard 14: Infection Control

<b>Purpose of Standard:</b>	<b>There is a management environment, which minimises the risk of infection to patients, staff and visitors.</b>
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<b>Rationale and Risk:</b>	<p>Inadequate infection control has very significant health care and financial implications that can severely affect the effective functioning of the Trust.</p> <p>Prevention and control of infection is part of the overall risk management strategy within the healthcare environment and an integral part of the management of antibiotic resistance. A proportion of hospital-acquired infection is preventable. Evolving clinical practice presents new challenges in infection prevention and control, which need continual review and assessment.</p>
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### REFERENCES:

1. WHC (2000) 13 – Risk Management and Organisational Control
2. WHC (99) 158 – Variant Creutzfeld-Jakob Disease (vCJD): Minimising the Risk of Transmission
3. WHC (99) 157 – Controls Assurance in Infection Control: Decontamination of Medical Devices
4. WHC (98) 56 – The Interdepartmental Working Group on Tuberculosis – The Prevention and Control of Tuberculosis in the UK, 1996
5. WHC (99) 04 – AIDS/HIV Infected Health Care Workers: Guidance on the Management of Infected Health Care Workers and Patient Notification: Recommendations of the Expert Advisory Group on AIDS
6. National Priorities Guidance for 1999/00 – 2001/02 [and 2000/01 – 2002/03 update]
7. Guidelines on Post-Exposure Prophylaxis for Health Care Workers Occupationally Exposed to HIV: Recommendations of the Expert Advisory Group on AIDS 1997 (under revision)
8. “Transmissible Spongiform Encephalopathy Agents: Safe Working and the Prevention of Infection” (Advisory Committee on Dangerous Pathogens (ACDP)/Spongiform Encephalopathy Advisory Committee (SEAC), April 1998
9. AS/NZS 4360:1999 Risk management
10. Internal Control – Guidance for Directors on the Combined Code of Practice on Good Corporate Governance (The “Turnbull” report)
11. HSC 1999/178 – Variant Creutzfeld-Jakob Disease (vCJD): Minimising the Risk of Transmission
12. HSC 1999/179 – Controls Assurance in Infection Control: Decontamination of Medical Devices
13. HSC 1998/063 – Guidance for Clinical Health Care Workers: Protection against Infection with Blood-borne viruses. Recommendations of the Expert Advisory Group on AIDS and the Advisory Group on Hepatitis
14. HSC 1998/226 - AIDS/HIV Infected Health Care Workers: Guidance on the Management of Infected Health Care Workers and Patient Notification: Recommendations of the Expert Advisory Group on AIDS
15. HSC(91)33 – Decontamination of Equipment, Linen and Other Surfaces Contaminated with Hepatitis B and/or Human Immunodeficiency Viruses
16. HSC 1999/123 – Risk management and organisational controls
17. EL(96)51 – The Interdepartmental Working Group on Tuberculosis – Guidance on Tuberculosis Control, 1996
18. HSC 1998/196 – The Interdepartmental Working Group on Tuberculosis – The Prevention and Control of Tuberculosis in the UK, 1996
19. HSC 1998/025 – The Management and Control of Viral Haemorrhagic Fevers. Summary of the Guidance from the Advisory Committee on Dangerous Pathogens

## Infection Control

20. HSG (95) 10 – Hospital Infection Control: Guidance on the control of infection in hospitals prepared by the joint DH/PHLS Hospital Infection Working Group
21. HSG (93) 40 – Protection of Health Care Workers and Patients against Hepatitis B (under revision)

## Infection Control

<p><b>Area for Assessment 1:</b></p> 	<p><b>Accountability</b>  <b>Board level responsibility for infection control is clearly defined and there are clear lines of accountability for infection control matters throughout the organisation, leading to the board.</b></p>
<p><b>Guidance:</b></p>	<p>The Chief Executive is responsible for ensuring that there are effective arrangements for infection control within the hospital. Clear lines of accountability throughout the organisation should be established defining the relationships between the Risk management Committee, Clinical Governance Committee, Infection Control Committee and Infection Control Team. The following specific arrangements should be in place.</p> <ul style="list-style-type: none"> <li>• ✓ The infection control programme is developed with the support of the board and approved by it.</li> <li>• ✓ The Chief Executive and Risk Management Committee receive the annual report on the infection control programme which is presented to the board.</li> <li>• ✓ The Chief Executive, or a deputy with authority to make appropriate decisions on the Chief Executive's behalf, works closely with the Infection Control Team within the hospital.</li> <li>• ✓ Senior management support is provided for infection control emergencies out of hours.</li> </ul> <p>The Chief Executive and the Risk Management Committee are informed of any serious problems or issues relating to infection control issues.</p>


No.	Check for evidence that :	Yes	No	Partial	Comments (including cross reference to evidence)
1.1	<p>The above arrangements are recorded within the board minutes.</p> <p><i>Example of evidence:</i></p> <ul style="list-style-type: none"> <li>➤ <i>Board minutes.</i></li> </ul>	✓			<p>Clinical governance meetings minutes                      Risk Management Committee</p>
1.2	<p><b>The minutes of the risk management committee record that the board has accepted its responsibility for overseeing effective infection control arrangements.</b></p> <p><i>Example of evidence:</i></p> <ul style="list-style-type: none"> <li>➤ <i>Risk management committee minutes.</i></li> </ul>	✓			



Infection Control

1.3	<b>An accountability chart or diagram exists, showing that clear lines of accountability exist for infection control issues.</b>  <i>Example of evidence:</i> ➤ ➤ <i>Accountability chart.</i>	✓			Organisational charts, reflecting structural changes	
<b>Overall Evaluation:</b>					<b>Compliance</b>	<b>Score</b>
					Yes ✓	No
					Partial	100%
<b>General Comments on Area for Assessment 1:</b>						

## Infection Control


<p><b>Area for Assessment 2:</b></p> 	<p><b>Accountability</b>  <b>There is an infection control committee that endorses all infection control policies, procedures and guidance, provides advice and support on the implementation of policies, and monitors the progress of the annual infection control programme to develop, endorse and communicate all infection control policies and act as a central resource for guidance and support in relation to all infection control matters.</b></p>
<p><b>Guidance:</b></p>	<p>The membership of the Infection Control Committee (ICC) should include:</p> <ul style="list-style-type: none"> <li>• ✓ the Infection Control Team (ICT)</li> <li>• ✓ the Chief Executive or a nominated senior manager with authority to represent him or her;</li> <li>• ✓ the Consultant in Communicable Disease Control (CCDC) for the Health Authority in which the hospital is situated;</li> <li>• ✓ the Occupational Health Physician and the Occupational Health Nurse or manager;</li> <li>• ✓ an Infectious Disease Physician where there is one;</li> <li>• ✓ Nurse Executive Director or nominated representative(s);</li> <li>• ✓ senior clinical representatives nominated by the Medical Director;</li> <li>• ✓ other identified representatives from, for example, Sterile Services Department, Estates Department, Facilities Management, etc.</li> </ul> <p>The structure of the ICC should be appropriate to the organisation. Some organisations have found that smaller, operational ICCs reporting to the main ICC work well. The ICC should have agreed Terms of Reference and Accountability arrangements and should meet at least twice a year. Minutes of the ICC should be circulated to all clinical Directors/managers and relevant committees, for example, clinical governance and risk management committees. The ICC should provide advice and support to the ICT.</p>

No.	Check for evidence that :	Yes	No	Parti al	Comments (including cross reference to evidence)
2.1	<p>There are clear terms of reference for the infection control committee with a broad membership.</p> <p><i>Example of evidence:</i></p> <ul style="list-style-type: none"> <li>➤ <i>Terms of reference.</i></li> </ul>	✓			Terms of reference
2.2	<p><b>Detailed minutes are taken at all infection control committee meetings and circulated to all relevant staff.</b></p> <p><i>Examples of evidence:</i></p> <ul style="list-style-type: none"> <li>➤ <b>Minutes.</b></li> <li>➤ <b>Circulation lists.</b></li> </ul>	✓			Control of infection Committee meetings Distribution list

Infection Control

<b>Overall Evaluation:</b>	<b>Compliance</b>			<b>Score</b>
	<b>Yes ✓</b>	<b>No</b>	<b>Partial</b>	<b>100%</b>
<b>General Comments on Area for Assessment 2:</b>				

## Infection Control


<p><b>Area for Assessment 3:</b></p> <div style="text-align: center; border: 1px solid black; padding: 5px; margin: 10px auto; width: 100px;">  </div>	<p><b>Accountability</b>  <b>There is an appropriately constituted and functioning Infection Control Team (ICT).</b></p>
<p><b>Guidance:</b></p>	<p>The Infection Control Team (ICT) includes:</p> <ul style="list-style-type: none"> <li>• ✓ the infection control doctor(s) (ICD);</li> <li>• ✓ the infection control nurse(s) (ICN);</li> <li>• ✓ a consultant medical microbiologist if the ICD is from another speciality.</li> </ul> <p>The ICT should be supported, as appropriate, by adequate secretarial, IT and audit staff. The responsibilities of each member of the ICT are clearly defined and the contracted sessions per week for the ICD are defined and agreed. Members of the ICT must have appropriate training in infection control and provide evidence of relevant continuing professional development (CPD).</p> <p>The ICT liaises with the Trust occupational health department(s) when dealing with:</p> <ul style="list-style-type: none"> <li>• ✓ infection control advice relating to the health and safety of Health Care Workers;</li> <li>• ✓ infection control advice relating to the transmission of infection from Health Care Workers to patients, other members of the organisation's staff and visitors.</li> </ul> <p>The ICT should ensure that advice on infection control is available on a 24-hour basis. The ICT liaises with the local Consultant in Communicable Disease Control when dealing with:</p> <ul style="list-style-type: none"> <li>• ✓ outbreaks within the acute and community settings;</li> <li>• ✓ issues relating to infection within primary care settings;</li> <li>• ✓ areas of work requiring the involvement of environmental health officers.</li> </ul>

No.	Check for evidence that :	Yes	No	Parti al	Comments (including cross reference to evidence)
3.1	<p>There is an Infection Control policy referring to the membership of this team.</p> <p><i>Example of evidence:</i></p> <ul style="list-style-type: none"> <li>➢ <i>Policy.</i></li> </ul>	✓			Infection Control Standard, in date
3.2	<p><b>There is a document setting out membership and roles of the ICT.</b></p> <p><i>Example of evidence:</i></p> <ul style="list-style-type: none"> <li>➢ <i>Constitution.</i></li> </ul>	✓			

Infection Control


Overall Evaluation:	Compliance			Score
	Yes ✓	No	Partial	100%
General Comments on Area for Assessment 3:				

## Infection Control

<b>Area for Assessment 4:</b>  	<b>Processes</b> <b>Prevention and control of infection is considered as part of all service development activity.</b>
<b>Guidance:</b>	Infection control advice should be provided by the Infection Control Team (ICT), particularly in relation to the following: <ul style="list-style-type: none"> <li>• the development of policies relating to engineering and building services for the Trust and to the purchase of medical devices/equipment;</li> <li>• early stage planning for advice relating to engineering and building works and the purchase of medical devices/equipment;</li> <li>• all stages of the contracting process for hotel and other services that have implications for infection control, eg cleaning, laundry, clinical waste.</li> </ul>

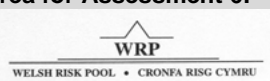
No.	Check for evidence that :	Yes	No	Parti al	Comments (including cross reference to evidence)								
4.1	There is a written procedure detailing how infection control advice/assistance is sought, at an early stage, prior to any significant building development/change in utilisation.  <i>Example of evidence:</i> > Procedure.	✓			Health & Safety management policy, Estates department, details Infection control liaison								
4.2	<b>Infection control input is built in to the procurement process (ie evidence of correspondence with infection control specialist on purchase documentation) for new medical equipment purchases/trialling and in respect of any other changes in contracts such as disposal of clinical waste.</b>  <i>Examples of evidence:</i> > Procurement procedure. > Sample procurement.	✓			Procurement process EBME, in date Infection control inclusion evident on procurement form Waste management policy, in date								
<b>Overall Evaluation:</b>					<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3" style="text-align: center;">Compliance</th> <th style="text-align: center;">Score</th> </tr> <tr> <td style="text-align: center;">Yes ✓</td> <td style="text-align: center;">No</td> <td style="text-align: center;">Partial</td> <td style="text-align: center;">100%</td> </tr> </table>	Compliance			Score	Yes ✓	No	Partial	100%
Compliance			Score										
Yes ✓	No	Partial	100%										
<b>General Comments on Area for Assessment 4:</b>													

## Infection Control

<b>Area for Assessment 5:</b>  	<b>Processes</b> <b>An organisation wide annual infection control programme with clearly defined objectives is produced by the infection control team.</b>
<b>Guidance:</b>	The ICT should develop and produce an annual infection control programme in full consultation with relevant key stakeholders, including the Infection Control Committee, health professionals and senior managers. The programme should include reference to audit of the implementation of, and compliance with, selected infection control policies. The annual infection control report should outline the progress of the infection control programme.

No.	Check for evidence that :	Yes	No	Parti al	Comments (including cross reference to evidence)	
5.1	There is a documented infection control programme covering all relevant areas of the Trust developed in full consultation with relevant professionals.  <i>Example of evidence:</i> > IC programme.	✓			Annual report, shows plan in retrospect, 2004 within objectives in annual report	
5.2	<b>There are local level business plans that reflect the infection control programme objectives and agreed local education and audit activity.</b>  <i>Example of evidence:</i> > <b>Sample business plans.</b>	✓			Operational plans selection of directorates [medicine, cancer services, dental, A&E, T&O, facio-max, community]	
5.3	There is a written audit programme for infection control activity.  <i>Example of evidence:</i> > <b>Audit programme.</b>	✓			Audit rolling programme	
<b>Overall Evaluation:</b>					<b>Compliance</b>	<b>Score</b>
					Yes ✓	No
					Partial	100%
<b>General Comments on Area for Assessment 5:</b>  						

## Infection Control

<p><b>Area for Assessment 6:</b></p> <div style="text-align: center; border: 1px solid black; padding: 5px; margin: 5px auto; width: 100px;">  </div>	<p><b>Processes</b>  <b>Written policies, procedures and guidance for the prevention and control of infection are implemented and reflect relevant legislation and published professional guidance.</b></p>
<p><b>Guidance:</b></p>	<p>There should be a core of infection control policies, approved by the ICC, available for all relevant staff. Each directorate, department or service should have a current copy of the approved policies, procedures and guidelines pertinent to its activities. Key policies should be in place, including:</p> <ul style="list-style-type: none"> <li>• ✓ Universal infection control precautions;</li> <li>• ✓ Handwashing;</li> <li>• ✓ Major outbreaks of communicable infections;</li> <li>• ✓ Isolation of patients;</li> <li>• ✓ Prevention of occupational exposure to blood-borne viruses (BBVs), including prevention of sharps injuries;</li> <li>• ✓ Management of occupational exposure to BBVs and post exposure prophylaxis;</li> <li>• *Antimicrobial prescribing; <b>within medicines management policies</b></li> <li>• ✓ Control of MRSA, VRE and other antimicrobial resistant micro-organisms;</li> <li>• ✓ Control of tuberculosis, including multi-drug resistant tuberculosis;</li> <li>• ✓ Safe handling and disposal of clinical waste;</li> <li>• ✓ Single use and single patient use devices and other health care products;</li> <li>• ✓ Decontamination and reprocessing of re-usable medical devices;</li> <li>• ✓ Ward closure;</li> <li>• ✓ Packaging, handling and delivery of laboratory specimens; <u>within Microbiology policy</u></li> <li>• ✓ Occupational health policies for prevention and management of communicable infections in health care workers, including those infected with BBVs;</li> <li>• *Handling of medical devices in procedures carried out on known/suspect CJD patients and on patients in risk categories for CJD as defined in the ACDP/SEAC guidance (including disposal/quarantining/procedures). <u>In draft</u></li> </ul> <p>All policies should be included in an annual audit programme.</p>


No.	Check for evidence that :	Yes	No	Parti al	Comments (including cross reference to evidence)
6.1	<p>All relevant staff have received/have easy access to infection control policies.</p> <p><b>Examples of evidence:</b></p> <ul style="list-style-type: none"> <li>➢ <i>Distribution lists.</i></li> <li>➢ <i>Distribution systems.</i></li> </ul>			✓	<p>On intranet                      Specific yellow folders in clinical areas                      Updates distributed for hard copies via Infection control library                      Policy distribution lists</p>



Infection Control


6.2	Annual audit reports on compliance with these policies.  <b>Example of evidence:</b> ➤ <i>Annual report.</i>	✓			Audit reports re compliance and response Annual report re audit	
6.3	Evidence of name of the author, ratification and review dates, and relevant reference information.  <b>Examples of evidence:</b> ➤ <i>Policy on policy control.</i> ➤ <i>Sample policies.</i>	✓				
<b>Overall Evaluation:</b>					<b>Compliance</b>	<b>Score</b>
					Yes	No
<b>General Comments on Area for Assessment 6:</b>						

## Infection Control

<p><b>Area for Assessment 7:</b></p> <div style="text-align: center;">  </div>	<p><b>Processes</b>  <b>There is an annual programme for the audit of the infection control policies and procedures.</b></p>
<p><b>Guidance:</b></p>	<p>There should be a written programme for the audit of infection control policies and procedures. The annual programme should include a timetable stating which key infection control policies, procedures and guidance are to be reviewed or written that year.</p> <p>The audit should check that all policies are clearly marked with a review date. Audit results should be included in the infection control annual report.</p>


No.	Check for evidence that :	Yes	No	Parti al	Comments (including cross reference to evidence)			
7.1	There should be a written audit programme.  <i>Examples of evidence:</i> > <i>Audit programme document.</i> > <i>Annual report.</i> > <i>Sample policies.</i>	✓			Audit programme Audit tool template			
<b>Overall Evaluation:</b>					<b>Compliance</b>			<b>Score</b>
					Yes ✓	No	Partial	100%
<b>General Comments on Area for Assessment 7:</b>								

Infection Control

<p><b>Area for Assessment 8:</b></p> <div style="text-align: center;">  </div>	<p><b>Processes</b>  <b>Specialist microbiological support is provided in a timely and effective manner.</b></p>
<p><b>Guidance:</b></p>	<p>The microbiology laboratory should be CPA accredited and should support the infection control service via processing, data provision, surveillance and specialist testing. There should be access to and provision for timely specialist microbiology support, including the interpretation of results either on-site or via reference centres, eg Public Health Laboratory Service (PHLS). Written procedures should be available relating to specimen collection, handling and disposal. There should be a written procedure for the reporting of results on each test. The ICT should have appropriate access to laboratory results via an effective computer system. Microbiology services should be available on a 24-hour basis. Funding for outbreaks of infection should be agreed in advance. Appropriate arrangements should be in place for meeting all laboratory costs arising from outbreaks of infection.</p>


No.	Check for evidence that :	Yes	No	Parti al	Comments (including cross reference to evidence)	
8.1	A Microbiology Laboratory policy document, which details the level of support to the infection control function.  <i>Example of evidence:</i> ➤ <i>Policy.</i>	✓			CPA accreditation Microbiological policies, in date	
8.2	<b>Written procedures on specimen collection handling and disposal and on the reporting of test results.</b>  <i>Example of evidence:</i> ➤ <i>Procedures.</i>	✓				
<b>Overall Evaluation:</b>					<b>Compliance</b>	<b>Score</b>
					Yes ✓	No
					Partial	100%
<b>General Comments on Area for Assessment 8:</b>						

## Infection Control

<p><b>Area for Assessment 9:</b></p> <div style="text-align: center;">  </div>	<p><b>Processes</b>  <b>There is a defined surveillance method in place in accordance with centrally agreed objectives, specified in the annual infection control programme.</b></p>
<p><b>Guidance:</b></p>	<p>There should be agreed objectives and priorities for targeted surveillance of infection, developed by the ICT and endorsed by the ICC. Methods of surveillance should be defined and in place. There should be continuous “alert organism” and “alert condition” surveillance covering the whole hospital to prevent and rapidly detect outbreaks of infection. Confidentiality for patients and staff should be maintained at all times. Results of the analysis of surveillance with interpretation and recommendations should be reported to the ICC, clinicians, nurses and others who need to know regularly. Any appropriate action should be agreed with the ICT.</p>


No.	Check for evidence that :	Yes	No	Parti al	Comments (including cross reference to evidence)			
9.1	<p>Surveillance policy in force, which is reviewed on a regular basis with a minuted record to this effect within the infection control committee meetings.</p> <p><i>Examples of evidence:</i></p> <ul style="list-style-type: none"> <li>➤ <i>ICC minutes.</i></li> <li>➤ <i>Surveillance report.</i></li> </ul>			✓	<p>Infection Control minutes                      Annual report detailing Surveillance                      Bacteraemia surveillance report                      Orthopaedic surveillance survey report</p>			
9.2	<p><b>The surveillance programme makes reference to the means of prevention of specific infections.</b></p> <p><i>Example of evidence:</i></p> <ul style="list-style-type: none"> <li>➤ <i>Surveillance programme.</i></li> </ul>			✓				
<b>Overall Evaluation:</b>					<b>Compliance</b>	<b>Score</b>		
					Yes	No	Partial✓	80%
<b>General Comments on Area for Assessment 9:</b>								

## Infection Control

<p><b>Area for Assessment 10:</b></p> <div style="text-align: center; border: 1px solid black; padding: 5px; margin: 10px auto; width: 100px;">  </div>	<p><b>Processes</b>  <b>A comprehensive infection control report is produced by the Infection Control Team on an annual basis, reviewed by the Risk Management Committee and presented to the board.</b></p>
<p><b>Guidance:</b></p>	<p>The annual infection control report should contain, as a minimum, information on the following:</p> <ul style="list-style-type: none"> <li>• progress of the infection control programme;</li> <li>• a review of reported adverse incidents;</li> <li>• any recommendations made on measures taken to prevent recurrence of incidents;</li> <li>• surveillance data;</li> <li>• education and training undertaken;</li> <li>• results of audit.</li> </ul> <p>The report should be submitted to the Risk Management Committee for review. The Risk Management Committee, which includes in its membership the Chief Executive, should present the report to the board, bringing to the board's attention any significant risks or other issues.</p>


No.	Check for evidence that :	Yes	No	Parti al	Comments (including cross reference to evidence)								
10.1	There is an annual Infection Control Report covering the issues in the area for assessment.  <i>Example of evidence:</i> > Annual report.	✓											
10.2	The minutes of the Risk Management Committee record receipt and review of the report.  <i>Example of evidence:</i> > Risk management committee minutes.	✓											
<b>Overall Evaluation:</b>					<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3" style="text-align: center;">Compliance</th> <th style="text-align: center;">Score</th> </tr> <tr> <td style="text-align: center;">Yes ✓</td> <td style="text-align: center;">No</td> <td style="text-align: center;">Partial</td> <td style="text-align: center;">100%</td> </tr> </table>	Compliance			Score	Yes ✓	No	Partial	100%
Compliance			Score										
Yes ✓	No	Partial	100%										
<b>General Comments on Area for Assessment 10:</b>													

Infection Control

<p><b>Area for Assessment 11:</b></p> 	<p><b>Capability</b>  <b>The Infection Control Committee and Infection Control Team have access to up-to-date legislation and guidance relevant to infection control.</b></p>
<p><b>Guidance:</b></p>	<p>There are many sources of information on legislation and infection control guidance, including books and, through subscriptions to specialist information providers, CD-ROMs containing the full text. Up-to-date NHS Wales guidance can be accessed on HOWIS (<a href="http://howis.wales.nhs.uk/">http://howis.wales.nhs.uk/</a>) and NHS Executive guidance can be accessed on the Internet on the Department of Health COIN database. The Health and Safety Executive's website (<a href="http://www.hse.gov.uk">http://www.hse.gov.uk</a>) contains up-to-date information on legislation and guidance. Full text copies of all legislation issued from 1 January 1997 can be downloaded from (<a href="http://www.official-documents.co.uk">http://www.official-documents.co.uk</a>) which contains information on UK official documents.</p>


No.	Check for evidence that :	Yes	No	Parti al	Comments (including cross reference to evidence)	
11.1	There is an Infection Control Library of documents/journals/books/ CD-ROMs.  <i>Example of evidence:</i> ➤ <i>Library.</i>	✓			Trust library with infection control section Infection control library for Lab staff and IC Team Library resources list	
11.2	The team have direct Internet access.  <i>Example of evidence:</i> ➤ <i>See above.</i>	✓				
<b>Overall Evaluation:</b>					<b>Compliance</b>	<b>Score</b>
					Yes ✓	No
					Partial	100%
<b>General Comments on Area for Assessment 11:</b>						

## Infection Control

<p><b>Area for Assessment 12:</b></p> <div style="text-align: center;">  </div>	<p><b>Capability</b>  <b>Education in infection control is provided to all health care staff, including those employed in support services.</b></p>
<p><b>Guidance:</b></p>	<p>All staff, including those employed by support services, should receive training in prevention and control of infection. Infection control should be included in induction programmes for new staff, including support service staff. There should be a programme of ongoing education for existing staff, including update of policies, feedback of audit results and the action needed to correct deficiencies. Junior doctors and specialist registrars should receive training in infection control and antimicrobial prescribing as part of their continuing professional development (CPD). Records should be kept of attendance of all staff on infection control education programmes.</p>

No.	Check for evidence that :	Yes	No	Parti al	Comments (including cross reference to evidence)	
12.1	<p>Documented induction and training programme for staff (including medical, locum and agency personnel).</p> <p><i>Example of evidence:</i></p> <ul style="list-style-type: none"> <li>➤ Annual risk management report.</li> </ul>	✓			<p>Induction programmes</p> <p>Junior doctors handbook</p> <p>Training records</p>	
12.2	<p>There is a system for identifying staff working in high-risk clinical environments, for whom ongoing infection control training is provided.</p> <p><i>Example of evidence:</i></p> <ul style="list-style-type: none"> <li>➤ Board minutes.</li> </ul>	✓			<p>Training records</p> <p>Focus groups with nominated link members who have attained diploma level module on infection control</p>	
12.3	<p>Training records of attendance of staff in high-risk areas having received such training.</p> <p><i>Example of evidence:</i></p> <ul style="list-style-type: none"> <li>➤ Board minutes.</li> </ul>	✓			<p>Focus group minutes</p> <p>Training records across the board</p>	
<b>Overall Evaluation:</b>					<b>Compliance</b>	<b>Score</b>
					Yes ✓	No
					Partial	100%
<b>General Comments on Area for Assessment 12:</b>						

Infection Control


<p><b>Area for Assessment 13:</b></p> 	<p><b>Outcomes</b>  <b>Key indicators capable of showing improvements in infection control and/or providing early warning of risk are used at all levels of the organisation, including the board, and the efficacy and usefulness of the indicators is reviewed regularly.</b></p>
<p><b>Guidance:</b></p>	<p>The organisation should develop indicators that demonstrate the performance of infection control and the risk management process. One indicator is degree of compliance with this standard. Ideally the indicators should be designed to demonstrate improvement in the performance of control of infection services over time. The number of indicators devised should be sufficient to monitor the infection control service and the risk management process. It is not necessarily the case that all the indicators will be used by the board. The board should select those that are useful for ensuring that the internal controls are working satisfactorily and infection control services are meeting their objectives.          The National Assembly for Wales will review the actual indicators used by organisations to identify best practice in indicator use. This will inform the development of a set of national indicators for benchmarking and monitoring purposes.</p>

No.	Check for evidence that :	Yes	No	Parti al	Comments (including cross reference to evidence)			
13.1	A list of indicators has been developed.  <i>Example of evidence:</i> ➤ <i>Infection control indicators.</i>	✓			Outbreaks, infection rates, specialist infection data rates, quarterly reports			
13.2	<b>There is evidence that information is gathered, used at all levels and reported to the Infection Control Committee.</b>  <i>Example of evidence:</i> ➤ <i>Minutes of ICC.</i>	✓			Annual report Quarterly reports to Directorates and focus groups Control of Infection Committee minutes			
<b>Overall Evaluation:</b>					<b>Compliance</b>	<b>Score</b>		
					Yes ✓	No	Partial	100%

**General Comments on Area for Assessment 13 :**



## Infection Control


<p><b>Area for Assessment 14:</b></p> <div style="text-align: center;">  </div>	<p><b>Monitoring and review</b>  <b>The system in place for control of infection is monitored and reviewed by management and the board in order to make improvements to the system.</b></p>
<p><b>Guidance:</b></p>	<p>It is the responsibility of the Chief Executive and the board to monitor and review all aspects of the infection control system, including:</p> <ul style="list-style-type: none"> <li>• accountability arrangements;</li> <li>• processes, including risk management arrangements;</li> <li>• capability;</li> <li>• outcomes;</li> <li>• internal audit findings.</li> </ul> <p>The Infection Control Committee will review the detailed issues surrounding infection control. Risk Management Committee will play a significant role in monitoring and reviewing all aspects of the system as a basis for establishing significant information that should be presented to, and dealt with by, the board. The Clinical Governance Committee may also play a significant role in monitoring and reviewing control of infection as it impacts on the quality of clinical service provision. The Audit Committee should review internal audit findings.</p>

No.	Check for evidence that :	Yes	No	Parti al	Comments (including cross reference to evidence)
14.1	Internal Audit undertake reviews of the infection control systems.  <i>Example of evidence:</i> ➤ <i>Internal audit reports.</i>	✓			Rolling programme ICT audit results
14.2	Reports detailing monitoring and review activity undertaken, with evidence that any shortcomings have been satisfactorily addressed.  <i>Examples of evidence:</i> ➤ <i>Action plans.</i> ➤ <i>Reports.</i>	✓			
14.3	Specific action taken is recorded within the risk management committee meeting minutes and/or Infection Control Committee minutes.  <i>Example of evidence:</i> ➤ <i>Minutes of ICC/risk management committee.</i>	✓			

Infection Control

Overall Evaluation:	Compliance			Score
	Yes ✓	No	Partial	100%
General Comments on Area for Assessment 14:				

Infection Control

<b>Area for Assessment 15:</b>  	<b>Audit</b> <b>The Internal Audit function carries out periodic audits to assure the Board that a system of infection control is in place conforming to this standard.</b>
<b>Guidance:</b>	Internal auditors, in collaboration with the ICC and ICT, should periodically verify that a system of internal control exists with respect to infection control. The level of independent audit should be carried out should be based on risk, which will be determined principally by reference to assurances given by the ICC and ICT. Reports should be presented to the Audit Committee and copied to the Risk Management Committee and any other relevant board sub-committee (eg Clinical Governance Committee). An annual internal audit statement should be provided to the Chief Executive which sets out the audit work carried out for the year. Where the system in place for infection control has been audited, this should be referred to in the statement.

No.	Check for evidence that :	Yes	No	Parti al	Comments (including cross reference to evidence)	
15.1	Internal Audit provides report(s) and statement to Chief Executive.  <i>Example of evidence:</i> ➤ Reports/statements.	✓			Audit reports, on rolling programme	
15.2	Minutes confirming receipt – ICC, Risk Management Committee, Clinical Governance Committee.  <i>Examples of evidence:</i> ➤ Minutes of ICC, risk management committee, clinical governance committee.	✓				
<b>Overall Evaluation:</b>					<b>Compliance</b>	<b>Score</b>
					Yes ✓	No
					Partial	100%
<b>General Comments on Area for Assessment 15:</b>						

## Infection Control

### INSTRUCTIONS FOR DETERMINING SCORE

1. Any 'Areas for Assessment' which are thought to be Not Applicable should, in the case of standards 1-21, be agreed by the Welsh Risk Pool in advance. In such cases or in standards 22-35 where the NHS body believes an Area of Assessment is Not Applicable a line should be drawn through the whole standard on the Summary Score table.
2. After completing the standard, enter the scores in the Y, N and P boxes in the Score Table. Award 100 for "full" (f) response. Award 0 for "non" (N) response. Enter a score between 1 and 99 to demonstrate the extent of partial compliance (see scoring rationale table)
3. Multiply the 'Area for Assessment' weighting by the relevant score given in either of the Y, N, or P columns and record the result in the Weighting (W) x Score (S) column
4. Sum up the weightings for all the applicable Areas for Assessment and record the value in the Total Weightings (A) box.
5. Sum up the values in the W x S column and record the result in the Total Scores (B) box.
6. Calculate the overall % score (B divided by A) and record in the Total % Score box.
7. Model Elements are indicated in the text next to the Area for Assessment within each standard. They include: Accountability, Process, Capability, Outcomes, Monitoring/Review, and Audit. This is to assist with performance management.

Area for Assessment	Model Elements	Weighting	Scoring				W x S
			Y	N	P	N/A	
1	Accountability	25					
2	Accountability	50					
3	Accountability	50					
4	Processes	50					
5	Processes	50					
6	Processes	100					
7	Processes	50					
8	Processes	50					
9	Processes	100					
10	Processes	10					
11	Capability	50					
12	Capability	50					
13	Outcomes	25					
14	Monitoring and review	50					
15	Audit	10					
<b>TOTAL WEIGHTINGS (A)</b>			<b>TOTAL SCORES (B)</b>				68500
<b>Total % Score (B divided by A)</b>						<b>95%</b>	

Infection Control

**INSTRUCTIONS FOR ACTION PLANNING**

1. Identify the 'Area for Assessment' number to which the action relates. Enter the action number and a brief description of the action.
2. Identify a simple priority for the action. This could be high, medium or low, or could relate to time-scale for implementation, e.g. immediate action; action within 1 month; etc.
3. Identify any costs associated with the action. Where appropriate, identify both non-recurring (e.g. capital) and recurring (e.g. revenue) costs.
4. Identify the due date for the action and enter the date when the action is complete (Date Comp).

**PAGE**      **OF**     

<b>AREA FOR ASSESSMENT</b>	<b>ACTION No.</b>	<b>DESCRIPTION</b>	<b>PRIORITY</b>	<b>RESPONSIBILITY</b>	<b>COST (£)</b>	<b>DUE DATE</b>	<b>DATE COMP</b>



## Annex 8

**Welsh Healthcare Associated Infections Strategy**  
**Accident and Emergency**

Objective	Current Status	Action Points	By Whom	By When	Progress Criteria			Date achieved/Comments
					Red	Amber	Green	
Improvement in Hand Hygiene		Implement the NPSA 'clean your hands' campaign	Clinical Lead, ICT and Ward Champions		Alcohol Hand Gel not available at point of care. Poor Hand Hygiene Compliance Scores	Alcohol Hand Gel available at point of care with baseline Hand Hygiene Audits in completed	AHG available at point of care. Regular hand hygiene audits being performed which identify improved practice	
Monitoring of Environmental Cleanliness		Adhere to National Standards of Cleanliness for Wales by ensuring external and internal audits are completed in order to monitor environmental cleanliness	Clean Hospitals Group, Clinical Lead and Domestic Services		External and Internal Audits not performed	External Audits performed in majority (>50%) areas and action plans addressed	Action Plans addressed Internal audit cycle established with results being fed back to CHG	
All staff will receive training on infection control	Red	Staff to attend infection control mandatory training session every 2 years	Manager to ensure staff have time to attend training and staff to attend when sent	Ongoing	Staff unable to access training.	Staff have access to training but attendance low	Greater than 75% staff are up to date with training	ICT currently not offering training

## Annex 8

Safe Management of Infectious Patients within A&E		Development of local policies for the management of infectious patients	Clinical Lead	December 2005	Policy Not Developed	Policy developed and agreed with Infection Control	Policy Ratified and staff aware of procedures required	
Prevention of Infection Associated with insertion of IV cannula		Observational Audit	Clinical Lead and Clinical Director	March 2006	No action taken	Nominated person developing audit tool	Audit completed and results presented to directorate	



## Annex 8

**Welsh Healthcare Associated Infections Strategy**  
**Cancer Services**

Objective	Current Status	Action Points	By Whom	By When	Progress Criteria			Date achieved/Comments
					Red	Amber	Green	
Improvement in Hand Hygiene		Implement the NPSA 'clean your hands' campaign	Clinical Lead, ICT and Ward Champions		Alcohol Hand Gel not available at point of care. Poor Hand Hygiene Compliance Scores	Alcohol Hand Gel available at point of care with baseline Hand Hygiene Audits in completed	AHG available at point of care. Regular hand hygiene audits being performed which identify improved practice	
Monitoring of Environmental Cleanliness		Adhere to National Standards of Cleanliness for Wales by ensuring external and internal audits are completed in order to monitor environmental cleanliness	Clean Hospitals Group, Clinical Lead and Domestic Services		External and Internal Audits not performed	External Audits performed in majority (>50%) areas and action plans addressed	Action Plans addressed Internal audit cycle established with results being fed back to CHG	
All staff will receive training on infection control	Red	Staff to attend infection control mandatory training session every 2 years	Manager to ensure staff have time to attend training and staff to attend when sent	Ongoing	Staff unable to access training.	Staff have access to training but attendance low	Greater than 75% staff are up to date with training	ICT currently not offering training

## Annex 8

Surveillance of Central Venous Devices		Data set to be decided  Nominated Lead for facilitation of surveillance	Clinical Lead  PICC Nurse Specialist		Surveillance form not completed.	Nominated nurse identified  Surveillance form accepted	Structured Surveillance trailed with proposed commencement date	
Review Burden of Disease in relation to MRSA		Case Note Review			No identified person to commence audit	Junior Doctor identified to undertake short audit and case note review	Case Note Review completed  Results feedback to directorate	

## Annex 8

**Welsh Healthcare Associated Infections Strategy  
Community Directorate**

Objective	Current Status	Action Points	By Whom	By When	Progress Criteria			Date achieved/Comments
					Red	Amber	Green	
Improvement in Hand Hygiene	Green	Implement the NPSA 'clean your hands' campaign	Clinical Lead, ICT and Ward Champions		Alcohol Hand Gel not available at point of care. Poor Hand Hygiene Compliance Scores	Alcohol Hand Gel available at point of care with baseline Hand Hygiene Audits in completed	AHG available at point of care. Regular hand hygiene audits being performed which identify improved practice	
Monitoring of Environmental Cleanliness		Adhere to National Standards of Cleanliness for Wales by ensuring external and internal audits are completed in order to monitor environmental cleanliness	Clean Hospitals Group, Clinical Lead and Domestic Services		External and Internal Audits not performed	External Audits performed in majority (>50%) areas and action plans addressed	Action Plans addressed Internal audit cycle established with results being fed back to CHG	
All staff will receive training on infection control	Red	Staff to attend infection control mandatory training session every 2 years	Manager to ensure staff have time to attend training and staff to attend when sent	Ongoing	Staff unable to access training.	Staff have access to training but attendance low	Greater than 75% staff are up to date with training	ICT currently not offering training

## Annex 8

Identify the pressure sore prevalence and the impact on DN services		Identify research studies for monitoring prevalence  Develop audit tool to monitor and assess impact		March 2006	Research studies not identified  Audit Tool not developed	Research Studies identified  Audit Tool developed	Audit being performed by Community Nursing Teams	
Monitor Rates of Infection of PEG Sites		Identify research studies in order to develop mechanisms for data capture  Develop audit criteria to monitor trends		September 2005  March 2006	Research Studies not identified  Audit Tool not developed	Research Studies identified  Audit Tool developed	Audit being performed by Community Nursing Teams	
Identify Infection Control Issues for Community Nursing		Baseline assessment undertaken  Action Plan to be developed	Deputy CSM's to work with G Grades	September 2005	Base Line Assessment not undertaken	Baseline Assessment undertaken  Action Plan not developed	Action Plan developed identifying Infection Control Issues for Community Nursing	

## Annex 8

**Welsh Healthcare Associated Infections Strategy**  
**Directorate of Clinical Support Services**

Objective	Current Status	Action Points	By Whom	By When	Progress Criteria			Date achieved/Comments
					Red	Amber	Green	
Improvement in Hand Hygiene		Implement the NPSA 'clean your hands' campaign locally following release of recommendations from NPSA in relation to Primary Care	Clinical Lead, ICT and identified Champions	May 2006	Alcohol Hand Gel not available at point of care. Poor Hand Hygiene Compliance Scores	Alcohol Hand Gel available at point of care with baseline Hand Hygiene Audits in completed	AHG available at point of care. Regular hand hygiene audits being performed which identify improved practice	
Monitoring of Environmental Cleanliness		Adhere to National Standards of Cleanliness for Wales by ensuring external and internal audits are completed in order to monitor environmental cleanliness	Clean Hospitals Group, Clinical Lead and Domestic Services		External and Internal Audits not performed	External Audits performed in majority (>50%) areas and action plans addressed	Action Plans addressed Internal audit cycle established with results being fed back to CHG	
All staff will receive training on infection control		Staff to attend infection control mandatory training session every 2 years	Manager to ensure staff have time to attend training and staff to attend when sent	Ongoing	Staff unable to access training.	Staff have access to training but attendance low	Greater than 75% staff are up to date with training	ICT currently not offering training

## Annex 8

To review and where necessary write infection control policies for each department in line with Trust Guidelines for infection control		Set up divisional group with leads from each department to review local policies	Stuart Harnes – Head of Podiatry	2005 -2006	Divisional Leads not identified.	Leads identified, and divisional group formed	Policies reviewed and where necessary updated	
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## Annex 8

**Welsh Healthcare Associated Infections Strategy**  
**ENT and Maxillofacial Surgery**

Objective	Current Status	Action Points	By Whom	By When	Progress Criteria			Date achieved/Comments
					Red	Amber	Green	
Improvement in Hand Hygiene		Implement the NPSA 'clean your hands' campaign	Clinical Lead, ICT and Ward Champions		Alcohol Hand Gel not available at point of care. Poor Hand Hygiene Compliance Scores	Alcohol Hand Gel available at point of care with baseline Hand Hygiene Audits in completed	AHG available at point of care. Regular hand hygiene audits being performed which identify improved practice	
Monitoring of Environmental Cleanliness		Adhere to National Standards of Cleanliness for Wales by ensuring external and internal audits are completed in order to monitor environmental cleanliness	Clean Hospitals Group, Clinical Lead and Domestic Services		External and Internal Audits not performed	External Audits performed in majority (>50%) areas and action plans addressed	Action Plans addressed Internal audit cycle established with results being fed back to CHG	
All staff will receive training on infection control		Staff to attend infection control mandatory training session every 2 years	Manager to ensure staff have time to attend training and staff to attend when sent	Ongoing	Staff unable to access training.	Staff have access to training but attendance low	Greater than 75% staff are up to date with training	ICT currently not offering training

## Annex 8

Trial of Pre-operative Screening for patients undergoing major surgical procedures		Protocol to be devised  Swabbed patients to be tracked to identify if there are any benefits to preoperative screening	Ward Sister, Nurse Practitioner and ICT	Commenced September 2005	Protocol not devised  Screening not commenced	Protocol devised  Screening commenced	6 month trial completed and assessed	
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Annex 8

**Welsh Healthcare Associated Infections Strategy  
Intensive Care**

Objective	Current Status	Action Points	By Whom	By When	Progress Criteria			Date achieved/Comments
					Red	Amber	Green	
Improvement in Hand Hygiene		Implement the NPSA 'clean your hands' campaign	Clinical Lead, ICT and Ward Champions		Alcohol Hand Gel not available at point of care. Poor Hand Hygiene Compliance Scores	Alcohol Hand Gel available at point of care with baseline Hand Hygiene Audits in completed	AHG available at point of care. Regular hand hygiene audits being performed which identify improved practice	
Monitoring of Environmental Cleanliness		Adhere to National Standards of Cleanliness for Wales by ensuring external and internal audits are completed in order to monitor environmental cleanliness	Clean Hospitals Group, Clinical Lead and Domestic Services		External and Internal Audits not performed	External Audits performed in majority (>50%) areas and action plans addressed	Action Plans addressed Internal audit cycle established with results being fed back to CHG	
All staff will receive training on infection control		Staff to attend infection control mandatory training session every 2 years	Manager to ensure staff have time to attend training and staff to attend when sent	Ongoing	Staff unable to access training.	Staff have access to training but attendance low	Greater than 75% staff are up to date with training	ICT currently not offering training

## Annex 8

Monitoring and Reduction of ITU Acquired MRSA		Compliance with Barrier Nursing Policy and Procedures  Monthly feedback of MRSA rates to clinical director	Clinical Lead and all staff  Infection Control Team	Monthly	ITU acquired MRSA increasing.  Poor compliance with barrier nurse policies and procedures	ITU acquired MRSA remains static  Compliance with Policies and Procedures	ITU Acquired MRSA reducing  Compliance with Policies and Procedures	
Surveillance of Ventilator Associated Pneumonia		Implement surveillance software  Identify process for data collection	Dr G Bugelli		Surveillance System not in place	Surveillance system in place.  Data collected No reporting mechanism,	Surveillance system in place.  Reporting mechanism in place	

## Annex 8

**Welsh Healthcare Associated Infections Strategy**  
**Directorate of Medicine**

Objective	Current Status	Action Points	By Whom	By When	Progress Criteria			Date achieved/Comments
					Red	Amber	Green	
Improvement in Hand Hygiene		Implement the NPSA 'clean your hands' campaign	Clinical Lead, ICT and Ward Champions		Alcohol Hand Gel not available at point of care. Poor Hand Hygiene Compliance Scores	Alcohol Hand Gel available at point of care with baseline Hand Hygiene Audits in completed	AHG available at point of care. Regular hand hygiene audits being performed which identify improved practice	
Monitoring of Environmental Cleanliness		Adhere to National Standards of Cleanliness for Wales by ensuring external and internal audits are completed in order to monitor environmental cleanliness	Clean Hospitals Group, Clinical Lead and Domestic Services		External and Internal Audits not performed	External Audits performed in majority (>50%) areas and action plans addressed	Action Plans addressed Internal audit cycle established with results being fed back to CHG	
All staff will receive training on infection control	Red	Staff to attend infection control mandatory training session every 2 years	Manager to ensure staff have time to attend training and staff to attend when sent	Ongoing	Staff unable to access training.	Staff have access to training but attendance low	Greater than 75% staff are up to date with training	ICT currently not offering training

## Annex 8

Audit of Compliance with Isolation Precautions		Observational Audit of all clinical areas	ICT, Lead Nurse		Audit tool not developed No Audits performed	Audit Tool developed Audit ongoing	Identified Areas audited and report presented to directorate	
Reduction of Staphylococcal Bacteraemias		Collection of mandatory surveillance data Standardise practice for the insertion and care of peripheral venous catheters Audit compliance with standards	Dr M Kumwenda	(Forms part of the Trust's Infection Reduction Strategy)	Surveillance in place	Baseline Audit completed. Standard for insertion and care developed	Practice standardised Compliance audited	

## Annex 8

Ophthalmic Directorate (DRAFT)

Objective	Current Status	Action Points	By Whom	By When	Progress Criteria			Date achieved/Comments
					Red	Amber	Green	
All staff will receive training on infection control	Red	Staff to attend infection control mandatory training session every 2 years	Manager to ensure staff have time to attend training and staff to attend when sent	Ongoing	Staff unable to access training.	Staff have access to training but attendance low	Greater than 75% staff are up to date with training	ICT currently not offering training
Improvement in Hand Hygiene	Green	Implement the NPSA 'clean your hands' campaign	Clinical Lead, ICT and Ward Champions		Alcohol Hand Gel not available at point of care. Poor Hand Hygiene Compliance Scores	Alcohol Hand Gel available at point of care with baseline Hand Hygiene Audits in completed	AHG available at point of care. Regular hand hygiene audits being performed which identify improved practice	
Monitoring of Environmental Cleanliness		Adhere to National Standards of Cleanliness for Wales by ensuring external and internal audits are completed in order to monitor environmental cleanliness	Clean Hospitals Group, Clinical Lead and Domestic Services		External and Internal Audits not performed	External Audits performed in majority (>50%) areas and action plans addressed	Action Plans addressed Internal audit cycle established with results being fed back to CHG	

## Annex 8

Monitor infection rates following ophthalmic surgery		Data collection in relation to the no of infections identified post operatively	Clinical Lead		Data Collection not implemented	Data Collection in progress	Data collection in progress and results fed back to Head of Nursing and Clinical Audit with any increases notified to ICT	
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## Annex 8

**Welsh Healthcare Associated Infections Strategy**  
**Orthopaedic Directorate**

Objective	Current Status	Action Points	By Whom	By When	Progress Criteria			Date achieved/Comments
					Red	Amber	Green	
Improvement in Hand Hygiene		Implement the NPSA 'clean your hands' campaign	Clinical Lead, ICT and Ward Champions		Alcohol Hand Gel not available at point of care. Poor Hand Hygiene Compliance Scores	Alcohol Hand Gel available at point of care with baseline Hand Hygiene Audits in completed	AHG available at point of care. Regular hand hygiene audits being performed which identify improved practice	
Monitoring of Environmental Cleanliness		Adhere to National Standards of Cleanliness for Wales by ensuring external and internal audits are completed in order to monitor environmental cleanliness	Clean Hospitals Group, Clinical Lead and Domestic Services		External and Internal Audits not performed	External Audits performed in majority (>50%) areas and action plans addressed	Action Plans addressed Internal audit cycle established with results being fed back to CHG	
All staff will receive training on infection control	Red	Staff to attend infection control mandatory training session every 2 years	Manager to ensure staff have time to attend training and staff to attend when sent	Ongoing	Staff unable to access training.	Staff have access to training but attendance low	Greater than 75% staff are up to date with training	ICT currently not offering training

## Annex 8

<p>Improve compliance with Surgical Site Surveillance</p>		<p>Follow pathway of an SSI form and identify barriers to compliance</p> <p>Nominate responsible person for collating forms</p> <p>Quarterly compliance report for directorate</p>	<p>Clinical Lead nurse</p> <p>Infection control Team</p>		<p>Barriers to compliance not identified</p> <p>No nominated person for collating forms</p> <p>No improvement in compliance</p>	<p>Barriers identified</p> <p>Nominated person collecting forms</p> <p>No improvement in compliance</p>	<p>Barriers resolved and compliance improved</p> <p>Improvement in Quarterly compliance reports</p>	
<p>Consider pre op screening to identify MRSA carriers</p>		<p>Review National Guidelines for MRSA when released and implement any changes</p>	<p>Clinical Director and Infection Control Team</p>		<p>Guidelines released but not reviewed</p>	<p>Guidelines reviewed and decision regarding changes discussed</p>	<p>Changes in practice identified and implemented if required</p>	



## Annex 8

Welsh Healthcare Associated Infections StrategyPathology

Objective	Current Status	Action Points	By Whom	By When	Progress Criteria			Date achieved/Comments
					Red	Amber	Green	
Review Phlebotomy Practices	Green	Audit compliance with Trust standards for hand hygiene and management of clinical waste	ICT	June 2005	External audits not carried out	Partial completion of audits	Audits completed	
Review Policies and develop, where required, new policies and procedures for Phlebotomy	Amber	Review policies against national or evidence based practices	Phlebotomy and ICT	September 2005	No review of policies carried out	Partial review of policies carried out	All policies reviewed and Ratified	
All staff will receive training on infection control	Red	Staff to attend infection control mandatory training session every 2 years	Manager to ensure staff have time to attend training and staff to attend when sent	Ongoing	Staff unable to access training.	Staff have access to training but attendance low	Greater than 75% staff are up to date with training	ICT currently not offering training

## Annex 8

Review and Audit Mortuary Practices and Procedures in relation to Infection Control	Red	Audit compliance with local policies and national standards for infection control	ICT and Histopathology Manager	September 2005	No audits carried out	Audit cycle commenced but not completed	Audit cycle completed	
Review policies and procedures for mortuary	Red	Policies and procedures to conform to Local and National guidelines or evidence based practices	Histopathology manager	November 2005	No reviews or development of policies or procedures	Partial review of policies and procedures	Policies reviewed and all new policies ratified.	
Review the receipt of high risk specimens	Yellow	Identify number of specimens received as high risk Identify number of specimens identified as high risk that had been wrongly classified	Health & Safety reps in Pathology and ICT	December 2006	No review of high risk specimens carried out	Review work has begun	Review completed and report submitted	

## Annex 8

Welsh Healthcare Associated Infections StrategyPathology

Objective	Current Status	Action Points	By Whom	By When	Progress Criteria			Date achieved/Comments
					Red	Amber	Green	
Review Phlebotomy Practices	Green	Audit compliance with Trust standards for hand hygiene and management of clinical waste	ICT	June 2005	External audits not carried out	Partial completion of audits	Audits completed	
Review Policies and develop, where required, new policies and procedures for Phlebotomy	Amber	Review policies against national or evidence based practices	Phlebotomy and ICT	September 2005	No review of policies carried out	Partial review of policies carried out	All policies reviewed and Ratified	
All staff will receive training on infection control	Red	Staff to attend infection control mandatory training session every 2 years	Manager to ensure staff have time to attend training and staff to attend when sent	Ongoing	Staff unable to access training.	Staff have access to training but attendance low	Greater than 75% staff are up to date with training	ICT currently not offering training

## Annex 8

Review and Audit Mortuary Practices and Procedures in relation to Infection Control	Red	Audit compliance with local policies and national standards for infection control	ICT and Histopathology Manager	September 2005	No audits carried out	Audit cycle commenced but not completed	Audit cycle completed	
Review policies and procedures for mortuary	Red	Policies and procedures to conform to Local and National guidelines or evidence based practices	Histopathology manager	November 2005	No reviews or development of policies or procedures	Partial review of policies and procedures	Policies reviewed and all new policies ratified.	
Review the receipt of high risk specimens	Yellow	Identify number of specimens received as high risk Identify number of specimens identified as high risk that had been wrongly classified	Health & Safety reps in Pathology and ICT	December 2006	No review of high risk specimens carried out	Review work has begun	Review completed and report submitted	

Annex 8

**Welsh Healthcare Associated Infections Strategy**  
**Diagnostic Services - Radiology**

Objective	Current Status	Action Points	By Whom	By When	Progress Criteria			Date achieved/Comments
					Red	Amber	Green	
Improvement in Hand Hygiene		Implement the NPSA 'clean your hands' campaign	Clinical Lead, ICT and Champions		Alcohol Hand Gel not available at point of care. Poor Hand Hygiene Compliance Scores	Alcohol Hand Gel available at point of care with baseline Hand Hygiene Audits in completed	AHG available at point of care. Regular hand hygiene audits being performed which identify improved practice	
Monitoring of Environmental Cleanliness		Adhere to National Standards of Cleanliness for Wales by ensuring external and internal audits are completed in order to monitor environmental cleanliness Radiology Group formed to ensure clean environment maintained	Clean Hospitals Group, Radiology Group and Domestic Services		External and Internal Audits not performed	External Audits performed in majority (>50%) areas and action plans addressed  Radiology Group meeting on a monthly basis	Action Plans addressed Internal audit cycle established with results being fed back to CHG	

## Annex 8

All staff will receive training on infection control	Red	Staff to attend infection control mandatory training session every 2 years  Directorate to identify key trainer	Manager to ensure staff have time to attend training and staff to attend when sent	Ongoing	Staff unable to access training.  Key Trainer not identified	Staff have access to training but attendance low  Key Trainer identified but not 'trained'	Greater than 75% staff are up to date with training	ICT currently not offering training
Standardise Practice in relation to ultrasound probes		Observational Audits  Protocol to be developed and discussed at directorate meeting	Dr Byrne Dawn Brough	August 2005	Base line Audit not performed  Protocol not developed	Audit completed  Protocol being developed	Protocol in place  Practice standardised and audited	

## Annex 8

**Welsh Healthcare Associated Infections Strategy**  
**Surgical Directorate**

Objective	Current Status	Action Points	By Whom	By When	Progress Criteria			Date achieved/Comments
					Red	Amber	Green	
Improvement in Hand Hygiene		Implement the NPSA 'clean your hands' campaign	Clinical Lead, ICT and Ward Champions		Alcohol Hand Gel not available at point of care. Poor Hand Hygiene Compliance Scores	Alcohol Hand Gel available at point of care with baseline Hand Hygiene Audits in completed	AHG available at point of care. Regular hand hygiene audits being performed which identify improved practice	
Monitoring of Environmental Cleanliness		Adhere to National Standards of Cleanliness for Wales by ensuring external and internal audits are completed in order to monitor environmental cleanliness	Clean Hospitals Group, Clinical Lead and Domestic Services		External and Internal Audits not performed	External Audits performed in majority (>50%) areas and action plans addressed	Action Plans addressed Internal audit cycle established with results being fed back to CHG	
All staff will receive training on infection control		Staff to attend infection control mandatory training session every 2 years	Manager to ensure staff have time to attend training and staff to attend when sent	Ongoing	Staff unable to access training.	Staff have access to training but attendance low	Greater than 75% staff are up to date with training	ICT currently not offering training

## Annex 8

Audit burden of Infection Associated with Central Venous Devices		Audit Central Venous Lines in the surgical unit	Clinical Lead Nurse	December 2005	Audit Tool not developed	Audit Tool developed and Audit underway	Audit completed and results fed back to directorate	
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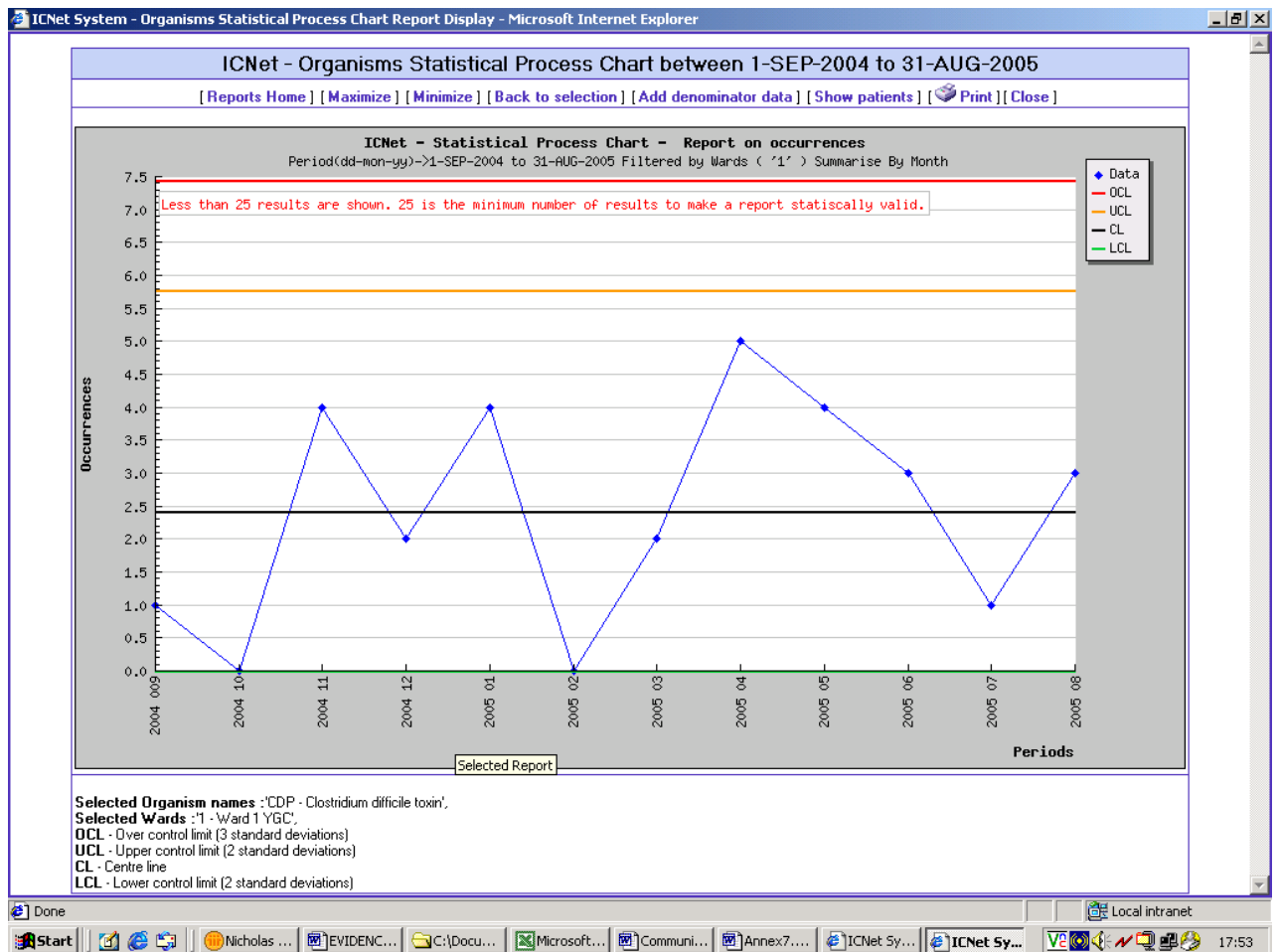
## Annex 8

**Welsh Healthcare Associated Infections Strategy**  
**Theatres - YGC**

Objective	Current Status	Action Points	By Whom	By When	Progress Criteria			Date achieved/Comments
					Red	Amber	Green	
Improvement in Hand Hygiene		Implement the NPSA 'clean your hands' campaign	Clinical Lead, ICT and Ward Champions		Alcohol Hand Gel not available at point of care. Poor Hand Hygiene Compliance Scores	Alcohol Hand Gel available at point of care with baseline Hand Hygiene Audits in completed	AHG available at point of care. Regular hand hygiene audits being performed which identify improved practice	
Monitoring of Environmental Cleanliness		Adhere to National Standards of Cleanliness for Wales by ensuring external and internal audits are completed in order to monitor environmental cleanliness	Clean Hospitals Group, Theatre Manager and Clean Theatres Group		External and Internal Audits not performed	External Audits performed in majority (>50%) areas and action plans addressed	Action Plans addressed Internal audit cycle established with results being fed back to CHG	
All staff will receive training on infection control		Staff to attend infection control mandatory training session every 2 years  'Scrub' staff to receive training and awareness sessions	Manager to ensure staff have time to attend training and staff to attend when sent	Ongoing	Staff unable to access training.	Staff have access to training but attendance low	Greater than 75% staff are up to date with training	ICT currently not offering training












## Annex 9












This is an example of a standard report derived from the ICNet infection surveillance system. The example shows the occurrence of *Clostridium difficile* infection on a Care of the Elderly ward over a 12-month period. It automatically applies statistical parameters to highlight control failures.






## Conwy & Denbighshire NHS Trust Yellow Policies

Policy No	Policy Title	Date Written and Validated	Date Last Updated	Date Reviewed
Yellow 01	 <a href="#">Infection control standards</a>	June 1996	August 2003	August 2003
Yellow 02	<a href="#">Handwashing procedure and use of protective clothing</a>	January 2000	August 2003	April 2005
	 <a href="#">PDF Version</a>			
Yellow 03	 <a href="#">Universal blood and body fluid precautions</a>	June 1996	August 2003	August 2003
Yellow 04	 <a href="#">Blood spillage policy</a>	April 1996	August 2003	August 2003
Yellow 05	<a href="#">Isolation/barrier nursing policies</a>	June 1996	September 2004	September 2004
	 <a href="#">PDF Version</a>			
Yellow 06	<a href="#">The nursing and midwifery management of patients with HIV/AIDS</a>	June 1996	August 2003	April 2005
	 <a href="#">PDF Version</a>			
Yellow 07	<a href="#">Staff sharps/body fluid incident policy</a>	June 1996	November 2002	April 2005
	 <a href="#">PDF Version</a>			
Yellow 08	 <a href="#">Major outbreak of infection policy</a>	June 1996	August 2003	August 2003
Yellow 09	<a href="#">Policy for antiseptics and disinfectants</a>	September 2000	August 2003	April 2005
	 <a href="#">PDF Version</a>			
Yellow 10	<a href="#">Management of patients with Methicillin Resistant Staphylococcus Aureus (MRSA)</a>	June 1996	September 2004	September 2004
	 <a href="#">PDF Version</a>			

## Annex 10

Yellow 11	<a href="#">Food safety and hygiene for non catering food handlers</a>	June 1998	August 2003	<b>April 2005</b>
	 <a href="#">PDF Version</a>			
Yellow 12	<a href="#">Ward and departmental kitchen policy</a>	June 1996	August 2003	<b>April 2005</b>
	 <a href="#">PDF Version</a>			
Yellow 13 WITHDRAWN 16.12.04 (now part of Yellow 10)	The policy on the inter hospital/tertiary centre transfer of patients			
Yellow 14	 <a href="#">Waste management policy appendix 2</a>	September 2000	January 2003	<b>January 2003</b>
Yellow 15	<a href="#">Policy for Varicella Zoster virus infection control</a>	July 1997	November 2004	<b>November 2004</b>
	 <a href="#">PDF Version</a>			
Yellow 16	Methicillin Resistant Staphylococcus Aureus (MRSA) - The policy on the admission of patients from nursing/residential homes	July 1997		<b>Withdrawn - no longer available</b>
Yellow 17	 <a href="#">Hepatitis B policy</a>	March 1998	August 2003	<b>June 2005</b>
Yellow 18	<a href="#">Policy on the protection of health care workers against infection with blood borne viruses</a>	September 2000	September 2004	<b>September 2004</b>
Yellow 19	 <a href="#">Management of used/soiled CSSD equipment and instruments</a>	January 2000	August 2003	<b>August 2003</b>
Yellow 20	 <a href="#">Management of used and soiled/infected linen</a>	January 2000	August 2003	<b>August 2003</b>
Yellow 21	<a href="#">Feeding autologous stem cell transplant (immunosuppressed) patients who require a "clean" diet policy</a>	January 2000	July 2004	<b>July 2004</b>
	 <a href="#">PDF Version</a>			
Yellow 22	<a href="#">Policy for the decontamination of equipment</a>	September 2000	August 2003	<b>April 2005</b>
	 <a href="#">PDF Version</a>			

Annex 10

Yellow 23	<a href="#">Bloodborne virus infected health care worker - patient notification plan</a>	September 2000	August 2003	<b>April 2005</b>
	 <a href="#">PDF Version</a>			
Yellow 24	 <a href="#">Policy for rubella infection control</a>	July 2001	August 2003	<b>June 2005</b>
Yellow 25	 <a href="#">Hepatitis C Policy</a>	December 2002	December 2002	<b>December 2002</b>
Yellow 26	 <a href="#">Staff Immunisation &amp; Screening</a>	September 2002	September 2002	<b>September 2002</b>
Yellow 27	<a href="#">Policy for Severe Acute Respiratory Syndrome (SARS)</a>	April 2004		<b>New Policy</b>
	 <a href="#">PDF Version</a>			

The policies can be accessed at [http://nww.cd-tr.wales.nhs.uk/polproc/2003/yellow/yellow\\_contents.htm](http://nww.cd-tr.wales.nhs.uk/polproc/2003/yellow/yellow_contents.htm)