Implementation of an infection control program How to get started?

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Advanced Training for Infection Control Nurses (ICNs) Hospital Authority Centre for Health Protection, Kowloon, Hong Kong Special Administrative Region 1 - 3 November 2017

(Organizers: Infectious Disease Control Training Centre, Hospital Authority/Infection Control Branch, Centre for Health Protection and Chief Infection Control Officer's Office)

Critical functions of infection control

- The critical function of infection control focus is on the identification, prevention and control of infections for patients/residents (clients, employees, visitors and when necessary the community)
- Key to this is:
 - The use of evidence based methods to identify, prevent and control infection
 - Determining what roles and functions are <u>not</u> essential to the practice of infection control
 - Work smarter not harder
 - Role conflict/ambiguity
 - ▶ **Workload**
 - ▶ Î Stress
 - ▶

 ↓

 Job satisfaction
 - Evaluating if your work solves problems and results in improvements



Prevention and Control of Nosocomial Infections, 4th Edition Edited by Richard P. Wenzel Philadelphia: Lippincott, Williams, and Wilkins, 2003

Establish an infection control team

place an ad

real estate

Infection Control Nurses

- Clinical Nurse Consultant (CNS)
- Infection Preventionist
- Infection Control Practitioner (ICPs)

Competencies

Expert, proficient, novice

Infectious Diseases

- Physicians
- Registrars
- Residents

Microbiologist/s

- **Epidemiologist/Data Managers**
- **Research/Project staff**
- Secretarial/clerical support staff

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your say	On the hunt: (left to right) Despina Kotsanas, infection control
cartoons	scientist; Dr Deborah Friedman, Southern Health's medical co-
time out	ordinator of infection control; Janet Courtot, consultant nurse;
oddspot	Professor Richard Donerty, head of pediatric Infectious diseases,
crosswords	director of newborn intensive care unit: Stephen Blamey surgeon
tv guide	and chairman of infectious control committee. Picture:Wayne Taylor
travel	Hospital infection control experts are like detectives in white coats, writes Lucy
money	Beaumont.
education	
classifieds	It was much like the perfect crime. The villain sneaked in silently and took advantage of

the weak. Before staff at Monash Medical Centre knew they had an outbreak of serratia bacteria, it had taken the life of one child and left its mark on three others

- Establish your programs core infection control business components:
 - Develop the hospital action plan to reduce HAIs
 - Developing a surveillance program
 - Participating in performance improvement teams
 - Managing outbreaks, adverse events and critical incidents
 - Policies/procedure development and maintenance
 - Compliance with standards, regulatory requirement, and guidelines
 - Education and training programs
 - Accreditation measuring and reporting
 - Keeping up-to-date with the literature

- Work out early what is achievable with resources you have ?
 - ► ICPs
 - Who has the experience to carry a portfolio?
 - Surveillance Preceptorship Program
 - Surveillance portfolio 6-12mths
 - Novice ICP paired with experienced ICP
 - Buddy system 3mths
 - Aseptic technique training and compliance program
 - HH compliance program
 - What ongoing support will expert, proficient & novice
 - ICPs need?
 - Preceptorship training program
 - Mentoring
 - Performance improvement plans and assessments

- Working with other areas/disciplines
 - Environmental Services
 - Cleaning & disinfection
 - Construction & renovation
 - Engineering
 - Engineering down the risk
 - Ventilation systems/warm water systems/cooling towers
 - Construction and renovation
 - Staff Health
 - HCW immunisation and vaccination programs
 - Operating Suite Services/CSSD/Endoscopy
 - Reprocessing of reusable medical and surgical instruments and equipment



- Limit the number of meetings your team members attend!
 - Infection Control Team meeting
 - Fortnightly
 - Infection Control Committee meeting
 - Bi-monthly
 - Product Evaluation Committee meeting
 - Bi-monthly
- Map your program on a 12mth planner
 - When you will do what
 - How long targeted strategies will run
 - When staff will be on leave

- Ensure executive management support
 - Endorsed by the CEO and the Board of Management
 - Very powerful
 - ▶ Focus at the highest level in the organisation
 - Enhances participation and improves accountability
 - Improves the timeliness of the implementation of interventions
 - Sets the goals and targets for the organisation
 - "Our aim is to try to prevent all preventable HAIs"
- Endorsed by the hospital Infection Control Committee
- Supported by key clinician/stakeholder champions:
 - Physicians
 - Heads of Units
 - Department Heads
 - Director of Nursing
 - Nurse managers

- Suggested annual goals
 - To educate frontline staff to ensure there is a belief that reducing HAIs is possible
 - To monitor consistent implementation of proven infection prevention and control measures
 - To use infection control surveillance data to drive the implementation of evidence based interventions
 - To engage clinical stakeholders in optimising adherence and discourage "everyone from doing their own thing"
 - To prioritise the implementation of evidence based:
 - Bundles
 - Horizontal/vertical infection control strategies
 - New technologies

- Make sure it is achievable with existing resources
- Estimate the infection control resources implications
 - Per annum
 - 1 major project
 - 2 minor objectives
- Network with others at your organisation to help/assist
- Network and collaborate with other hospitals



Link your plan to specific outcomes - accreditation requirements, National and/or state performance indicators



Australian Commission on Safety and Quality in Health Care (ACSQHC) (September 2011), National Safety and Quality Health Service Standards, ACSQHC, Sydney.

- Australia Standards & Victorian Surveillance Coordinating Centre (VICNISS) requirements:
 - Training and compliance in aseptic technique
 - Accreditation requirement 100% compliance
 - HH compliance
 - National benchmark 80%
 - Reducing catheter related bloodstream infections
 - ICU
 - State surveillance requirement
 - ► NICU
 - State surveillance requirement
 - Reduce Staphylococcus aureus bacteraemia (SAB)
 - Investigate all hospital associated SAB infections
 - Monitor clostridium difficile Infection (CDI)

- > Australia Standards & Victorian Surveillance Coordinating Centre (VICNISS) requirements:
 - Improving antibiotic prescribing practices
 - Accreditation requirement
 - Antibiotic stewardship program in place
 - Reducing surgical site infections (SSIs)
 - State benchmark
 - Procedure specific < than the state aggregate/100 procedures</p>
 - HCW Influenza vaccination rates
 - State target 80%
 - Healthcare-associated S. aureus bloodstream infections
 - National benchmark
 - < 2.0 per 10,000 patient bed days</p>
 - Improving compliance with transmission based precautions
 - Accreditation requirement monitoring program
 - Contact
 - Droplet
 - Airborne
- Do the things that will give you the most "bang" with the resources you have!

Surveillance

"There may be infection control without surveillance, but those who practice without measurement.....will be like the crew of an orbiting ship travelling through space without instruments, unable to identify their current bearings, the probability of hazards, their direction or their rate of travel"

Wenzel R P.

Infection Control Without Measurement



- Laboratory based ward liaison surveillance
 - Review microbiology data on a routine and regularly basis
 - Identify clusters and outbreaks
 - Identify unusual pathogens
 - Identify greater than usual incidence of certain species
 - Infection control staff should conducts regular ward rounds
 - Keep a running sheet of results by ward



- Laboratory based ward liaison surveillance......
 - ► Ward rounds
 - ▶ i.e. Monday, Wednesday, Friday
 - Discuss microbiology results with ward/unit staff:
 - Likely mode/s of transmission
 - Advise on infection control precautions to minimize transmission
 - Patient placement
 - Patient risk factors
 - Device use
 - Intensive "shoe leather" infection control
 - Opportunity to observe what is actually happening



- Targeted surveillance Surveillance of definable events
 - High risk, high volume, high cost procedures/areas
 - Device related
 - Surgical site infections in specific population
- Surveillance method

Simplicity

- Simple data collection management analysis, dissemination and maintenance systems
- Easily applicable and understandable definitions

► Flexibility

Able to respond to new problems, technologies and case definitions



- High-quality data
 - Complete and valid
 - Staff training
 - Quality check on data entry
 - Interfacing and extracting data from existing computer systems demographics/microbiology
- High Acceptability
 - Not overly burdensome
 - As data requirement increases data completeness decreases
 - Leads to problems with validity
- High sensitivity and specificity
 - Sensitivity captures a high percentage of cases that meet the definition

- Specificity
 - Has a low rate of false-positive misclassification of non-cases as cases
 - High timeliness
 - Timely feedback of data so appropriate interventions can be devised and implemented
 - High external validity
 - Data should be generalizable to similar populations
- Reliability
 - Consistent collection management and analysis of data without lapses

- Case definitions
 - Standardized and straight forward case definitions
 - Strict application of the definitions
- Remember!
 - "Surveillance definitions are for surveillance purposes not clinical purposes"
- Risk adjustment "compare apples with apples"
 - Stratification by cofounders
 - Hospital unit
 - Device use
- Be aware of possible co-founding by the sensitivity of the local surveillance effort
 - Better surveillance systems will appear to have the higher rate of infection

RISK ADJUSTMENT

"COMPARE APPLES WITH APPLES"



- Compare your infection rate with your own rates (or zero) overtime
- Provide surveillance data for state/national clinical performance indicator and accreditation systems
 - Understand the limitations of inter-hospital comparisons and benchmarking
- HK hospital Authority surveillance KPIs
 - Multidrug resistant organisms
 - Surgical site infections
 - Catheter associated bloodstream infections in Adult ICU

RISK ADJUSTMENT

"COMPARE APPLES WITH APPLES"



USA - CDC's National Healthcare Safety Network (NHSN)



USA - CDC Comparing the prevalence of healthcare associated infections over time



- 2011 versus 2015
 - 143 hospitals
 - Findings:
 - Less urinary catheter and central line use
 - HAI prevalence fell from 4.0% to 3.2% (a 22% decrease)
 - Central line and urinary catheter use were both significantly lower
 - Healthcare-associated UTIs and SSIs significantly decreased

Magill SS et al. Reduction in the Prevalence of Healthcare-Associated Infections in U.S. Acute Care Hospitals, 2015 vs 2011. Open Forum Infectious Diseases, Volume 4, Issue suppl_1, 1 October 2017, Pages S49.

Victoria, Australia Victorian Healthcare Associated Infection Surveillance System

- Mandatory For All Public Health TRULINE WE DAY NAMETTER Q. HEALTHCARE WORKERS+ ABOUT+ PUBLICATIONS-INFECTION, DISEASE The primary aim of VICNISS is to minimise the & HEALTH associated with healthcare in Victoria. ed in 2002, the broarian is cooldinated by the VICNISS C Articles & Issues + For Authors + Journal Info + ACIPC Subscribe Wore Periodicals + All Content Search Advanced Search November 2016 Volume 21, Issue 3, Page 144 < Previous Article Net Affice > News & Updates For Healthcare Professionals **DPE REPORTING SURVEY** Using enhanced surveillance to characterise the The CPE Reporting Survey was to be completed by CDB Friday Bth Se If you have not already done this, click read more for the surveyment epidemiology of Clostridium difficile infections in and complete the survey Australia: Time trends and severity of illness in Victoria. REAL TREE. 2010-2014 VICHISS REPORTS 04 2016/17 Lean Worth (AProf. WONESE reports for Q4 2016/37 are now available on the VIDNESE webs VCNSS Coordinating Cardie, Nabourne, Australia 001 物体点面指切标流力传统15 SAUG VRE FAQS
 - Background: Closhröum difficie poses a substantial and increasing healthcare burden internationally, and there is therefore a need for monitoring of infections in Australia. The objective of this study was to evaluate time trends and sevents of ilmess for Costsiduum officie infection (CCI) events in Australian healthcare facilities

https://www.vicniss.org.au/ J Hosp Infect. 2016 Jul;93(3):280-5

Staphylococcus aureus Bacteraemia (SAB)

Services

- *Clostridium difficile* Infection (CDI)
- Healthcare worker seasonal influenza vaccination
- Central line-associated bloodstream infections in intensive care
- Central line and peripheral line associated bloodstream infections in neonatal intensive care
- Surgical site surveillance (SSI)

Optional Modules

- Outpatient Haemodialysis events
- Ventilator Associated Events
- Central line insertion practices
- Colorectal process adherence monitoring

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Victoria, Australia Victorian Healthcare Associated Infection Surveillance System

MODULES FOR SMALLER HOSPITALS

- Surgical antibiotic prophylaxis
- Occupational exposures
- Peripheral venous catheter use
- Multi-resistant organisms
- Surgical infection report
- Healthcare worker measles/hepatitis
 B vaccination
- Annual surveillance plan
- Executive sponsor approval of plan
- Web based data entry with quarterly reporting
- Online surveillance report as needed

Journal of Hospital Indection 78 (2011) 257-301



A bundle of care to reduce colorectal surgical infections: an Australian experience

A, Bull^{2,*}, J. Wilson^b, LJ. Worth², RL. Stuart^b, E. Gillespie^b, B. Waxman^b, W. Shearer^b, M. Richards²

*Vicarius Healthcare Associated Surveillance System Coordinating Centre, Nedbourne, Victoria, Australia *Socilerro Health, Nedbourne, Victoria, Australia

SUMMARY

ARTICLE INFO

Article Matery

by 51 Dances

Rewords Care bundle

Regional 9 September 2010

Accepted 21 March 2011

Available online 12 kme 2011

Health an evaluated infections

Persoeative complications

Quality of healthcare

Sertial wound infection

Use of 'bundles of care' to improve patient outcomes is becoming more widespread; however, their use is more common internationally than in Australia. The objective of this study was to assess the feasibility of implementing a bundle of care for patients undergoing colorectal surgery with the aim of reducing surgical site infections. Each component of the bundle was evidence based, focusing on normothermia, normoglycaemia, unygen delivery and use of appropriate antibiotics, implementation required extensive consultation and education, together with a checklist to accompany patients and record whether processes were followed and outcomes achieved. Difficulties were experienced with achieving compliance with processes, although some improvements were seen. There was a link between the use of warming devices and improved maintenance of normothermia. The infection rate fell from 15% [95% confidence interval (CI) 10.4-20.2] before the project to 7% (95% CI 3.4-12.6) 12 months after the project. While the small sample size does not allow definitive conclusions to be drawn, the results are promising. Potential reasons for low compliance with individual components of the bundle of care are discussed. In conclusion, introduction of a bundle of care for patients undergoing colorectal surgery into an Australian hospital was only modestly successful. Despite this, infection rates decreased over the 12 months following introduction of the bundle.

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https://www.vicniss.org.au/

A. Bull et al. / Journal of Hospital Infection 78 (2011) HK Hospital Authority surgical site infection surveillance

Protocol for Hospital Authority (HA) Surgical Site Infection (SSI) Surveillance

Version	Date
1	August 2009
2	November 2010
3	December 2011
4	January 2016

Period of the SSI Data	Q1 (Jan-Mar)	Q2 (Apr-Jun)	Q3 (Jul-Sep)	Q4 (Oct-Dec)
Frozen date	30 June	30 September	30 December	30 March
Reminder from the SSI program: counting down 15 days before	15 June	15 September	15 December	15 March

Web based data entry with quarterly reports provided to hospitals

HK Hospital Authority surgical site infection surveillance

- HK mandatory reporting of surgical site infections
 - Appendix surgery
 - Open & laparoscopic
 - Gallbladder surgery
 - Open & laparoscopic
 - Colon surgery
 - Open & laparoscopic
 - Breast surgery
 - Rectal surgery
 - Hip/Knee surgery
 - Dynamic Hip Screw
 - Hip prosthesis
 - ▶ Total & partial
 - Knee prosthesis



Preceptorship training

Training

- Surveillance Preceptorship Program
 - Surveillance portfolio
 - 6-12mths
 - Novice ICP paired with experienced ICP
 - Buddy system 3mths
- Experienced ICPs
 - Role model
 - Educator
 - Preceptor
- Clinical rounds with an Infectious Diseases physician



Preceptorship training

Advantages:

- 1:1 supervision on the job
- Standardization in:
 - Data collection methods
 - Interpretation and applications of definitions
 - Supportive working environment
 - Strong sense of accountability and ownership



Feedback and reporting - Control Charts



Harrington et al. Reduction in Hospitalwide Incidence of Infection or Colonization with Methicillin-Resistant Staphylococcus aureus With Use of Antimicrobial Hand-Hygiene Gel and Statistical Process Control Charts. Infect Control Hosp Epidemiol 2007; 28:837-844.

Feedback and reporting - days between infection



Feedback and reporting - tables and % compliance

TOTAL NUMBER OF CENTRAL LINES INSERTED IN CCU IN VICNISS Q3	25		
BUNDLE EVIDENCE BASED PREVENTION STRATEGIES		PERCENTAGE ADHERENCE/COMPLIANCE	VICNISS ICU AGGREGATE
Hand hygiene performed	25/25	100%	99.2%
Appropriate skin antisepsis	25/25	100%	96.3%
Skin allowed to completely dry following antiseptic application	24/25	96%	96%
Operator wore a mask	25/25	100%	98.3
Operator wore a sterile gown	25/25	100%	99.3
Operator wore a cap	24/25	96%	86
Operator used sterile gloves	25/25	100%	99.3
A large (full length) sterile drape was used	24/25	96%	91.9
COMPLETE BUNDLE IN PLACE DURING CENTRAL LINE INSERTION	22/25	88%	91.9

The compliance with all evidence based interventions strategies in ICU is 88% compared to Quarter 2, which was 83.3%. VICNISS compliance state-wide in ICU's is 74.7% In this quarter in ICU:

• Skin antiseptic was not completely dry before commencing the procedure & a mask, cap and a large full length drape was not always used

Feedback and reporting - days between infection



Since the infection in November 2012 there have been <u>139 consecutive</u> days without an infection

Feedback and reporting - "Stop" lights

Hospital ICU central line associated blood stream infections (CLABIs) Rates with 95% Confidence Intervals - (2009/2010 - 2013/2014)

Year	Central line days	No. of CLABSI	Rate	95% CI
2009/2010	910	1	1.1	0.0 - 6.1
2010/2011	1187	1	0.8	0.0 - 4.7
2011/2012	1091	1	0.9	0.0 - 5.1
2012/2013	1082	0	0.0	0.0 - 3.4
2013/2014	455	0	0.0	0.0 - 8.1
VICNISS Aggregate(n=18)	108769	109	1.0	0.8 - 1.2

Explanatory note: A central line is a narrow tube inserted by a doctor into a large vein of a patient's neck or chest to give important medical treatment. When not put in correctly or kept clean, central lines can become an easy way for germs to enter the body and cause serious infections in the blood. These infections are called central line associated blood stream infections (CLABIs), and they can be deadly.

CLABSIs are mostly preventable when healthcare providers use infection control steps to minimise and prevent infections related to these lines during insertion and during ongoing care of the lines.

This measure compares the number of central line infections in the intensive care unit to a state benchmark (VICNISS aggregate).

Lower numbers are better. A score of zero (0) - meaning no CLABSI – is best.

Results:

- The hospital ICU central line associated blood stream infection (CLABIs) rates has been zero (0) for 2012/2013 and 2013/2014 (financial year) year to date
- This compares to the VICNISS aggregate (18 hospitals) in these years of zero - 1.0 for 2012/2013 and 2013/2014 (financial year) year to date.

This is an excellent result for the hospital Intensive Care Unit





The Intensive Care Unit has zero infections and rates are below the state aggregate

Feedback and reporting - keep it simple



Decrease 2001 - 2009

- Since 2001 CLABSI in ICU patients has been reduced by 58%
- Saved up to 27,000 lives and is associated with \$1.8B in excess medical costs
- In 2009 alone
 - Reducing infections saved about 3,000-6,000 lives
 - \$414 million in extra medical costs compared with 2001



Feedback and reporting What we did, what we accomplished, what we learned

Public Health Practice Stories from the Field



in C. difficile rates was seen in Illinois hospitals

20 acute care hospitals participated in statewide

collaborative to reduce C. difficile infections

15%+

Decrease in incidence of C difficile infections in participating hospitals

Statewide education campaign

aims to strengthen ability of acute care hospitals, long-term acute care hospitals, and long-term care facilities to prevent C. difficile infections.

Illinois Hospitals Collaborate to Reduce Clostridium difficile Infections

Clostridium difficile infections (CDI) are commonly associated with bacterial diarrhea in hospitalized patients. Infection can result in lifethreatening colitis (inflammation of the colon) and lead to excess medical costs. The incidence of CDI in Illinois hospitals more than doubled over a 10-year period, from 4.5 cases per 1,000 discharges in 1999 to 9.2 cases per 1,000 discharges in 2009.

In response to the increasing CDI rates, the illinois Department of Public Health (IDPH) partnered with the state's quality improvement organization, IFMC-IL, to lead a CDI prevention collaborative. Hospitals were invited to join the collaborative based on their CDI discharge rates and their interest in participating. Hospitals wanting to join the collaborative established multidisciplinary teams (staff from infection prevention, quality management, environmental services and housekeeping, nursing, microbiology, and others) with a designated project lead, and returned participation agreement forms signed by the hospital executive.

The collaborative kicked off in March 2010 with 11 acute care hospitals. from metro Chicago. A second cohort of 9 acute care hospitals from central and southern Illinois was added in October 2010. The collaborative period ended in September 2011.

A statewide education campaign, the Illinois Campaign to Eliminate Clostridium difficile (ICE C. difficile), will launch in March 2012 to further disseminate evidence-based practices for CDI prevention; help strengthen the ability of acute care hospitals, long-term acute care hospitals, and long-term care facilities to prevent CDL and engage leadership in these facilities in prioritizing CDI prevention.

The information in Public Health Practice Staries from the Field was provided by organizations external to CDC. Provision of this information by CDC is for informational purposes only and does not constitute an endorsement or recommendation by the U.S. government or CDC.



Public Health Practice Stories from the Field

What We Did

Based on CDC recommendations, IDPH and IFMC-IL chose several prevention strategies to constitute a C. difficile prevention bundle that included hand hygiene, contact precar ons, environmental cleaning, lab alerts, and staff and patient education. Hospitals had the option of adding or ser strategies based on individual needs identified. Each team performed a gap analysis to identify specify goals and action steps. IDPH and IFMC-IL supported hospital efforts are why fite visits webinars that the users and in-person meetings. Most of these learning activities were held

What We Accomplished

Hospital-onset (HO) CDI rates decreased in both cohorts. Hospital reported C difficile laboratory data to CDC's National Healthcare Safety Network (NHSN). For cohort 1 (metro Chicago), the model-predicted HO CDI incidence decreased from 11.7 to 9.8 cases per 10,000 patient days during the 19-monthy articipation period, a 15% decrease that was marginally significant. For cohort 2 (central and southern Illinois), the redel-predicted HO CDI incidence decreased from 9.1 to rases per 10,000 patient days during the 12-mer analticipation period, a 26% decrease. Two months after the case in HO CDI rates has been sustained; the model-predicted decrease was collabor 18% (p=0.02) for cohort 1 and 22% (p=0.19) for cohort 2.

Hospitals completed an adapted version of the CDC Prevention Practices Assessment Tool at the beginning and end of participation, and provided monthly hand hygiene, gown and glove, and environmental cleaning adherence rates via NHSN. Monitoring of these prevention practices was higher at the end of the participation period compared to the beginning. Adherence rates also increased by the end of the participation period in both cohorts. Adherence rates were highest for hand hygiene (93% in cohort 2) and lowest for environmental cleaning (78% in cohort 2). IDPH presented lessons learned in the Not Just a Maid Service video, which highlights the role of environmental service workers in preven

What We Learned

- · Forming multidisciplinary teams was important, particularly for phancing communication across departments and gaining better appreciation for each staff member's role in precenting CDI.
- Education and resources for environmental cleaning when area of high interest and need.
- stant to consider how to sustain the cesses achieved beyond the collaborative period. · Support from hospital readership is important for long-term success, and leadership from the state can strengthen
- facilities' CDI prevention efforts.
- Hospitals have competing priorities and more needs to be done to get them to prioritize CDI prevention.

For more stories, visit

www.cdc.gov/stitpublichealth/phpracticestories

For information about this story, contact Illinois Department of Public Health Chinyere Alu, MPH **Public Health Prevention Service Fellow** Telephone: 312-814-2565 E-mail: Chinyere.alu@illinois.gov

For information about this product, contact Centers for Disease Control and Prevention 1600 Clifton Road NE, Atlanta, GA 30333 OSTLTS Toll-free Helpdesk: 866-835-1861 E-mail: OSTLTSfeedback@cdc.gov Web: www.cdc.gov/stltpublichealth

Publication date: \$/13/2012

*Vit*ålsigns™

Feedback and reporting - sample ICC reporting template



SAMPLE INFECTION CONTROL COMMITTEE REPORT

What we did

Using the VICNISS surveillance methods infection control staff have identified a hospitals associated TKR surgical site infection on 12/11/2012. This is the TKR surgical site infection that has occurred in <u>100 consecutive days.</u>

Since this infection in November 2012 there have been <u>139 consecutive days</u> <u>without an infection.</u> The VICNISS surveillance method uses a standardised definition which includes

The VICNISS surveillance method uses a standardised definition which includes clinical and microbiological criteria to define an infection. It should be noted that this definition is for surveillance purposes ONLY and not for clinical purposes and on occasions may miss or overcall some infections.

It is important for infection control and organisation performance improvement purposes that we adhere to VICNISS surveillance criteria so that when measuring our own performance over time or when reviewing our performance in relation to other like facilities that the data we are comparing has been collected in a standardised manner.

SAMPLE INFECTION CONTROL COMMITTEE REPORT

What we aim to accomplish

Ye aim to the following:

- Provide clinical staff involved in the management and care of patients undergoing TKR procedures with simple, easy to interpret graphs that enable them to see the frequency at which infections are occurring in their unit/ward/department on a bi-monthly basis
- Provide clinical staff with in-service education so they can develop an understanding of the principles of infection control hospital associated infection surveillance and what types of infections will and will not meet set surveillance criteria
- Provide individual cases details to treating physicians for follow-up and case review
- Encourage clinical staff to implement evidence based interventions (i.e. care bundles) to reduce the risk of patients acquiring a hospital associated infection
- Provide staff with the Institute for Healthcare Improvement (IHI) How-to Guides along with preview publications on successful interventions
- Encourage the establishment of multidisciplinary groups, supported by executive management to implement evidence based interventions to minimize the risk of patients acquiring a hospital associated infection
- Show case multidisciplinary groups efforts through storytelling
- Use days between infection/s as an indicator for improvement in outcomes.

Using the same reporting as outlined above provide the Infection Control Committee with bi-monthly reports for review and action. Following review forward to:

- Clinical Services administration for distribution and
- Riskman Q to capture quality improvement initiatives that are implemented by clinical staff in response to the findings or as a result of quality improvement intervention strategies.

What we are learning

Surveillance data should not be collect for the sake of data collection. Surveillance data needs to be feedback to clinical staff for review and action as needed.

Prevention of hospital associated infection requires a multidisciplinary team effort with support and endorsement from organization key opinion leaders and executive

HCW influenza vaccination rates State target 75%

Influenza vaccination campaign

 Maintain the current marketing/promotional/ vaccine availability strategies across all sites

2014 New!

- Set the benchmark at 80%
- Mandatory completion of employee consent/declination forms

2014 Results YTD

Local target > 80%



Participate in hospital improvement teams

- Performance improvement teams
- The key outcome measure should clarify the aim and makes it tangible
- Integrate measurement into people's daily routine
- Plot data on the outcome measure over time
 - Run charts, control charts
- When people see that they can effect change, results will become more of a personal goal

Central line catheter maintenance bundle

- Minimise skin bioburden -Chlorhexidine wash (ICU patients)
- Device selection Impregnated catheters
- Aseptic manipulation of catheter connectors - <u>Scrub the hub!</u>
- CHG impregnates sponge dressings
- Antimicrobial/antiseptic locks

Prevention possibility 70-100%

Participate in hospital improvement teams

Performance improvement teams

- Improvement teams set attainable goals and get constant feedback
- The improvement goal, or aim, is:
 - Strategic
 - Relevant
 - Compelling
 - Important
 - A stretch (i.e., challenging but not unattainable)
 - Achievable
 - Unambiguous

Central line catheter insertion bundle

- Catheter checklist
- Hand hygiene
- Selection of correct catheter and insertion in optimal site
- Catheter insertion cart or kit
- Maximal barrier precautions
- Chlorhexidine (CHG)/alcohol skin antisepsis (prep)

Prevention possibility 70-100%

Successful measurement for improvement. www.ihi.org

Participating in performance improvement teams

Institute of Healthcare Improvement - Project Joints





A new federally-funded program is trying to prevent one of the most persistent problems for those procedures: surgical site infections. Laura Landro joins Lunch Break. Photo: AP.

It was more than two weeks before David Dwyer was scheduled for a hip replacement, but already he was at the hospital, prepping. First he had his nose Susan S. Huang et al. Targeted versus Universal Decolonization to Prevent ICU Infection. May 29, 2013 NEJM



Funded by the Agency for Healthcare Research and the Centers for Disease Control and Prevention; RÉDUCE MRSA

HH compliance program - what are the challenges?

- Resource intensive
 - Requires direct observations
- Not always able to observe all 5 moments
 - Some only observing in and out of the room
- Hawthorn effect
 - People altering there behaviour because they are being observed
- High KPIs
 - Selected as an outcome indictor



HH compliance program - how accurate is compliance data?

- Recent HH compliance publications
- Kingston L et al. Hand hygiene-related clinical trials reported since 2010: a systematic review. Journal of Hospital Infection 92 (2016) 309-320
 - Systematic search for peer-reviewed, published studies
 - "We concluded that adopting a multimodal approach to hand hygiene improvement intervention strategies, whether guided by the WHO framework or by another tested multimodal framework, results in moderate improvements in hand hygiene compliance".
- Hand hygiene compliance: are we kidding ourselves? Editorial, Journal of Hospital Infection 92 (2016) 307-308
 - "It is clear that monitoring hand hygiene compliance using direct observation is flawed and that electronic devices/methods in combination with smaller observational audits using appropriately trained staff would enable a better assessment......
 - Hence, in an era of multi-resistant Gram-negative bacteria, it is now time to take stock and consider that we have spent a number of years performing research on hand hygiene with little evidence that any particular strategy works. Perhaps future research should be focused not on campaigns to improve hand hygiene at all costs, but on understanding when hand hygiene is most beneficial, setting reasonable, achievable targets, and then monitoring using validated, reproducible methods".
- Scheithauer S et al. Workload even affects hand hygiene in a highly trained and well-staffed setting: a prospective 365/7/24 observational study. Journal of Hospital Infection 97 (2017) 11-16
 - "Calculated compliance was inversely associated with nurses' workload. Hand-rub activities (HRA)/patient-day (PD), observer-determined compliance and amount of disinfectant dispensed were used as surrogates for compliance, but did not correlate with actual compliance and thus should be used with caution".

HH compliance program - how accurate is compliance data?

- Yen Lee Angela Kwok et al. Automated hand hygiene auditing with and without an intervention. American Journal of Infection Control 44 (2016) 1475-80
- "HHA rates (Hand Hygiene Australia human audits) for June 2014 were 85% and 87% on the medical and surgical wards, respectively.
- These rates were 55 percentage points (PPs) and 38 PPs higher than covert automation rates for June 2014 on the medical and surgical ward at 30% and 49%, respectively.
- During the intervention phase, average compliance did not change on the medical ward from their covert rate, whereas the surgical ward improved compared with the covert phase by 11 PPs to 60%.
- On average, compliance during the intervention without being refreshed did not change on the medical ward, whereas the average rate on the surgical ward declined by 9 PPs".

American journal of Infection Control 44 (2016) 1475-80



Major Article

Automated hand hygiene auditing with and without an intervention

() GrossMark

Yen Lee Angela Kwok MBBS, MPH, MHM, PhD^a, Craig P. Juergens MBBS, DMedSc, FRACP^b, Mary-Louise McLaws DipTropPubHlth, MPHlth, PhDMed^{a,*}

^a School of Public Health and Community Medicine, UNSW Medicine, UNSW Australia, Sydney, NSW, Australia ^b Southwestern Sydney Clinical School, UNSW Medicine, UNSW Australia, Sydney, NSW, Australia

Key Words: Intervention Technology Hawthorne effect Compliance

Behavior

Background: Daily feedback from continuous automated auditing with a peer reminder intervention was used to improve compliance. Compliance rates from covert and overt automated auditing phases with and without intervention were compared with human mandatory audits.

Methods: An automated system was installed to covertly detect hand hygiene events with each depression of the alcohol-based handrub dispenser for 5 months. The overt phase included key clinicians trained to share daily rates with clinicians, set compliance goals, and nudge each other to comply for 6 months. During a further 6 months, the intervention continued without being refreshed. Hand Hygiene Australia (HHA) human audits were performed quarterly during the intervention in accordance with the World Health Organization guidelines. Percentage point (PP) differences between compliance rates were used to determine change.

HH compliance program - the way forward?

- Education and training
 - Online learning modules and competency based training
 - Use of florescent markers for HH training
 - Just-in-time peer review
- Monitoring compliance
 - Electronic devices/methods in combination with smaller observational audits using appropriately trained staff would enable a better assessment
 - Observations without the Hawthorne effect
 - These technologies are rapidly developing and improving



HH compliance program - the way forward?

- **Key performance indicator (KPI)**
 - Rather that an outcome indicator consider HH as a process indicator
 - Audit program in place as a KPI rather than a compliance target/benchmark
 - Setting reasonable, achievable targets
 - Less frequent auditing
 - Fewer number of observations

Research

- Encourage further research
 - Understanding when hand hygiene is most beneficial
 - Monitoring using validated, reproducible methods

Hand Hygiene Compliance Monitoring Systems Automated, Reliable, Results.

Home > Solutions > intection Prevention > Compliance Monitoring



Fromse Products

¥1

Halyard takes a human-centered approach when evaluating healthcare solutions, considering clinic outcomes and clinician workflow needs.

We understand how to design for human behaviors with hygiene solutions and brands that interact with more than one billion people every day.

Watch the video to learn more about automated compliance monitoring



Automated: Replaces "Secret Shoppers"

Using Secret Shopper sampling methods, hospitals may overestimate their actual hand hygiene compliance rates, in fact, hand washing compliance is closer to 40% according to the CDC^[1].

Reliable: Active 24/7/365

Education and training - be innovative!



Education and training programs

- Organise an education and training program
 - Policies and procedures
 - New scientific innovations
 - Technological innovations
 - Safety devices
 - New skills
 - Isolation procedures
 - Donning and removing PPE
 - Aseptic technique practices
 - Prevention of blood and body fluid exposures
 - Problems occurring in your facility



Education and training programs

- Organise an education and training program
 - Assess the effectiveness of education interventions
 - Proxies for compliance
 - Isolation room set up
 - Random knowledge quiz
 - Review/audit of practices
 - CVC insertion practises
 - Urinary catheter policy



Training techniques

- Adult learning styles that will stimulate behaviours change
 - Simulated exercises
 - Video/computer technology
- Must meet the needs of varying educational background and work responsibilities



Education and training Translating the evidence and science of infection prevention and control



Education and training -Training and compliance in aseptic technique

Accreditation requirement -100% compliance

- 3.10 Developing and implementing protocols for aseptic technique
- 3.10.1 The clinical workforce is trained in aseptic technique
- Meeting the requirement
 - Online PowerPoint training
 - Simulated Training and Ongoing Annual Credentialing in Aseptic Technique
 - Annual just-in-time peer review



Education and training - Training and compliance in aseptic technique

BACK TO BASICS – a fresh look at aseptic technique

Education and training - Improving compliance with transmission based precautions

Accreditation requirement - monitoring program

Checklist

- Monitoring room set up for contact, droplet and airborne precautions
- Immediate feedback
- Just-in-time
- Report % compliance
 - Governance oversight

INFECTION	CONTROL	QUALITY	IMPROVEMENT	INITIATIVE

INFECTION CONTROL ISOLATION SET-UP - CHECKLIST WITH FEEDBACK

APPENDIX 1 - CHECKLIST TO ME PROVIDED TO WARD NUM

DATE	
WARD	
ROOM	
DISEASE/ORGANISM	
TYPE OF ISOLATION REQUIRED	
STANDARD	-
CONTACT	
AIRBORNE	

EQUIPMENT/SUPPLIES	YES	NO	N/A
Trolley outside room for PPE			
Alcohol hand rub available		_	
Door closed			
Gowns available		1	
Gloves available			
Mask available			
N95 mask available			
Isolation sign in place			
Correct isolation sign for disease/microorganism			

Checked by:.....

Education and training - Improving compliance with transmission based precautions

Results - 2mths (8 weeks) between 02/04/2014 – 28/05/2014

TOTAL NUMBER OF ROOMS AUDITED	TOTAL COMPLIANT WITH TRANSMISSION BASED PRECAUTIONS	% COMPLIANT WITH CONTACT PRECAUTIONS	% COMPLIANT WITH CONTACT & AIRBOURNE PRECAUTIONS	% COMPLIANT WITH DROPLET PRECAUTIONS	% COMPLIANT WITH AIRBORNE PRECAUTIONS
47 ROOMS	27/47 (57%)	23/42 (55%) Patients were in Contact Precautions for the following organisms: C.difficile MRSA VRE VIral gastroenteritis Localized shingles	1/2 (50%) Patients were in Airborne/Contac t precautions for the following infectious disease: *Disseminated Shingles	 1/1 (100%) Patients were in Droplet precautions for the following infectious disease: RSV 	2/2 (100%) Patients were in Airborne precautions for the following infectious disease: • Query TB

Education and training - be innovative!

Storytelling videos Glen's Story

How Hospital Associated Infections Can Impact on a Person's Life and Family

Produced by The Victorian Infection Control Professionals Association (VICPA)

The video is now available on YouTube



glenys story

Annotations

Enhancements

You Tube

Edit info

Glen's Story

Uploaded by VICPAoz on 14 Dec 2011

66

Managing outbreaks, adverse events and critical incidents

- **Critical Incident**
 - Sterilizer failure
 - Legionella in hospital cooling tower/water system
 - A case of measles
 - Influenza season
 - Middle East Respiratory Syndrome Coronavirus, knows as **MERS-CoV**
- **Critical Incident Team**
 - Focal point for flow of information
 - Coordination of investigations
 - Develop
 - Intervention strategies
 - Communicate strategies
 - Determine the costs
 - Maintain a log of events
 - Prepare a final report



General Manager

Notify Executive

Director Medical

Services or

Director of

Appoint

Manager

Project Team

delegate

Nursing

(Immediate Notification)

(Notification

within 24 hours

HIGH

Policies/procedure development and maintenance

- Policies and procedures
 - Scientifically valid
 - Appropriate literature review
 - Surveillance data
 - MDROs
 - Institutions experience
 - Professional practice guidelines
 - Regulatory requirements
 - Occupational health and safety requirements
- Should lead to improved prevention or improved patient outcomes



AUSTRALIAN GUIDELINES FOR THE Prevention and Control of Infection in Healthcare



Policies/procedure development and maintenance

- Policies and procedures
 - Scientifically valid
 - Appropriate literature review
 - Surveillance data
 - MDROs
 - Institutions experience
 - Professional practice guidelines
 - Regulatory requirements
 - Occupational health and safety requirements
- Should lead to improved prevention or improved patient outcomes



Compliment policies with infection control quick reference factsheets

Insert hospital name – Infection Control Factsheet

Viral Gastroenteritis (i.e. Norovirus, Rotavirus)

Viral gastroenteritis is a common illness and outbreaks are often encourtered in hospital settings.

A number of different viruses can cause the symptoms of gastroenteritis and these include the Norovirus and Rotavirus. Noroviruses are the most common cause of gastroenteritis in the community and healthcare setting.

Signs and symptoms

Acute onset of diarthoes (non-bloody loose or watery bowel actions: 6 or 7 on the Bristol stool scale), with or without vomiting is the most common symptom of viral gastipeertentis. Those affected may also have nausea, abdominal cramps and low grade fever. Symptoms usually last 24-72 hours.

30% of those infeded may be asymptomatic.

Communicability

Excretion of the virus begins a few hours before the onset of symptoms and can continue for up to 2 weeks or more after recovery. Maximum shedding of the virus occurs 24 – 72 hours after exposure.

Incubation period

The incubation for viral gastroententis is short – usually 24 – 48 hours but can occur within 12 hours of exposure.

How infection spreads

The illness is spread by the faecal or al route either by consumption of contaminated food or water or direct person to person spread.

Norovinuses are highly contagious and only 10 viral particles are needed to infect someone. Typically, an infected person with symptoms spreads the interest by direct contact with others or by contamination of surfaces e.g. door handles, furniture, bed linen.

Control of infection

Infection Prevention and Control measures are focused on minimising the spread of the virus within and between wards and departments.

Ensuring heightened sensitivity to 'cases' with similar symptoms in the same geographical location over a similar time period and implementing outbreak control measures as soon as possible is imperative to successfully containing an outbreak.

Avoid moving 'cases' as those sharing rooms will already have been exposed and are likely to be incubating the virus. Noving cases and cohoring may inable tently lead to extending an outbreak by exposing more patients to the virus. Notify Infection Control as soon as possible so they can assist with continning and managing the outbreak. Notify Environmental Services to advise heightened

cleaning and disinfection of affected rooms/ward.

Hand Hygiene

Practicing good hand hygiene and keeping hands away from your face and mouth will reduce the risk of acquiring the virus and spreading gastroentertils between staff, potents and visitors.

Contact Precautions -

- · Place a "Contact Precautions" sign on the patients door
- Gloves and gowns are to be worn when entering the patient's room
 Gowns and gloves are to be single use only and
- must be renoved on leaving the room
- Wash or disinfect hands immediately after removing gloves and gown
- Staff and visitors should avoid hand mouth face contact
- All shared equipment should be cleaned and disinfected before removal from the room and use on another patient.

Exclusion

Staff with symptoms of viral gastroententis must be symptom free for 48 hours before returning to work. Sick staff presenting with symptoms at work should go home as soon as possible.

Visitors with symptoms within the previous 48 hours should be discouraged.

For further information contact:

insert local contact details or leave this section out

Reference – Afred Health, Infection Control & Hospital Epidemiology Unit Insert hospital name – Infection Control Factsheet

Tuberculosis (TB)

What is Tuberculosis? Tuberculosis (TB) is an acute or chronic infection caused by Mycobackerium tuberculosis that usually affects the lungs but may also affect other parts of the body. Tuberculosis is an uncommon disease in Australia. The most infectious persons are those with open pulmonary or laryngeal tuberculosis. Laryngeal tuberculosis is very uncommon. Patients with extra-pulmonary tuberculosis are not infectious (e. nenal TB).

How is Tuberculosis spread? TB may be spread via the air when a person with open pulmonary TB of the lungscoughs, sneezes, laughs or shouts. These organisms can stay in the air for long periods of time, depending on the environmental circumstances. People who breathe in the air containing these organisms can become infected.

What is the difference between active and latent Tuberculosis? People with latent Tuberculosis have nonactive organisms in their lungs or other tissues and most of these people never develop Tuberculosis disease. They do not have symptoms and cannot spread the organisms to others. However some of these people may develop Tuberculosis disease (reactivation) in the future.

People with active Tuberculosis disease generally are unwell and show signs and symptoms. People with active disease of the lungs or throat are capable of spreading the organisms to others.

What are the symptoms? The general symptoms of TB disease include:

- Cough
- Tiredness
- Night sweats
- Weight loss
 Fever
- Coughing up bloody sputum

Who is at risk of contracting Tuberculosis? Everyone is at risk of infection however some groups are more susceptible to infection and progression to active disease (readivation) than others.

- Groups at risk include:
- Migrants and refugees
- Those in close contact with a person with active Tuberculosis disease

- Aboriginals and Torres Strait Islanders
- Immunosuppressed persons
 People living with HIV infection and
- AIDS
- The elderly Diabetics
- People who are drug and alcohol dependant
- People living in substandard,
- vercrowded conditions
 Health professionals

What is the period of communicability? The infected person can spread Tuberculosis

for as long as there are active organisms in their sputum. The risk of transmission is significantly reduced within two weeks after commencing appropriate treatment.

How do you get tested for Tuberculosis? If your doctor suspects that you have active TB or have been infected with the Tuberculosis organism, a skintest can be done, a chest x-ray may be taken or sputum can be tested.

How is Tuberculosis treated? Active Tuberculosis disease can be treated with medication. It may take up to six months to oure Tuberculosis disease, sometimes longer.

Patient Management

Whilst in hospital and infectious, patients with open pulmonary or langues ITE need to be transferred to a hospital with a negatively, ventilated room until no longer infectious, All staff and visitors must comply with Standard and Airborne precautions including the wearing of an N95 mask.

For further information contact:

Insert local contact details or leave this section out

Image obtained from Centers for Disease Control and Prevention web site

References Alfred Health, Infection Control & Hospital Epidemiology Unit. www.odc.gov www.betterhealth.vic.gov.au www.dhs.vic.gov.au



Education and training programs - Teleclass Education

Webber					
Training TELECLA		CLASS CATION	Processing Medical Dev Resources	vices in Settings With Limi	ted Dr. Nisam Damani,
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			Pneumonia Prevention	- The Vent and Beyond	Kathleen M. Voliman,
			Sponsored by Sage Products	(www.sageproducts.com)	
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			Economic Impact of Hei and Middle-Income Cou	althcare-Associated Infect Intries	Prof. Dr. Ata Nav
			Sponsored by World Health Or	ganization Patient Safety Challen	ge - Clean Care is Safer Care

Teleclass Handout (PDF)

On-line Recording

Infections Due to Multi-Drug Resistant (MDR) Gram-Negative

Pathogens Across the Continuum of Care

On-line Recording (old version)

Prof. Ke

"And you didn't clean your hands why?"



Teleclass Education for Infection Prevention and Control

http://www.webbertraining.com

Keeping up-to-date - journal reading



Keeping up-to-date - office text book

Prevention

and Control

Infortions

FOURTH EDITION

Richard P. Wenzel

of Nosocomial

CLIFFFACOTT WELLAME & WEARAS

FOURTH EDITION

HOSPITAL EPIDEMIOLOGY AND INFECTION CONTROL

C. Glen Mayhall

Wolters Kluwer Lippincott Williams & Wilkins

BENNETT & BRACHMAN'S HOSPITAL INFECTIONS

I Master Ia

William R. Jarvis

5TH

Wolters Kluwer Lippincott Williams & Wilkins Copyrighted Material Self efficacy

Is the belief in ones capabilities to organise and execute the sources of action required to manage prospective situations"

Albert Bandura



Self efficacy

- Your team needs people with a strong sense of self efficacy......
 - View challenging problem's as tasks to be mastered
 - Develop deeper interests in the activities in which they participate
 - Form a strong sense of commitment to their interests and activities
 - Recover quickly from set backs and disappointments



Team member skills

- Good communicators
 - Say what you mean, and mean what you say
 - ▶ Keep it simple
 - Say what you mean in as few words as possible
 - Find your voice
 - Focus on being distinct and real
 - Customizing your language for individual groups
 - Face to face communications



Team member skills

- Do a "calendar test" to make sure you're allocating time regularly to be out on the wards/units
- Show staff that you're engaged and care about them and their work
- Listen with your eyes and ears
 - Listen and hear what is coming back at you
 - Look for the nonverbal cues
 - You need to read between the lines



"The most important thing in communication is hearing what isn't said"

Team member skills

- Good writing skills
 - Turing technical data into plain language
 - 1-2 pages only
 - Pictures tell a story
- Good time management skill
- Not easily distracted
- Task orientated
- Good organisation skills



Team work

- Performance goals
 - Set achievable goals
 - Self directed
 - Realistic time frames for completion
 - Support from other team members to assist with achieving the goals
 - Encouragement and positive feedback



Reward your team for their achievements

Academic reward

- Sponsorship to a conference
- Linked to a surveillance portfolio abstract submission
- Ask for hospital executive support -\$\$\$\$
- Payback periods for academic preparation
- Acknowledging achievements
 - Public relations support -News articles
- Medical industry support
 - Unencumbered/transparent /educational grants
 - Scholarships



WHO Guidelines on Core Components of Infection Prevention and Control Programmes at the National and Acute Health Care Facility Level



Guidelines on Core Components of Infection Prevention and Control Programmes at the National and Acute Health Care Facility Level



WHO: What are the core components for effective infection prevention and control?

3,654 views

💼 38 🐠 0 🏕 SHARE 🔤

World Health Organization Published on Jul 20, 2017

SUBSCRIBE 55k

This instructional video from the World Health Organization explains the evidence-based core components of infection prevention and control programmes, critical at both the national and acute health care facility level for patient safety and for health systems to provide quality care. This video SHDW MORE

http://www.who.int/gpsc/ipc-components/en/

https://www.youtube.com/watch?v=LZapz2L6J1Q&t=2s&list=FLyvJPvg_hyg_nicjUddV6A&index=1

Thank you

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