



THE BUG BEAT FAIR: AN INNOVATIVE INFECTION CONTROL EDUCATIONAL CAMPAIGN IN AN ORTHOPEDIC SPECIALTY HOSPITAL

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INTRODUCTION:

Infection control in orthopedic nursing is an important component of patient care. Postoperative surgical site infections in this patient population are devastating outcomes that may result in repeated surgeries, removal of prostheses, long-term intravenous antibiotic therapy, and increased emotional stress. A collaborative relationship between the Infection Control Practitioner and orthopedic staff nurses is crucial to disseminate information, implement control measures and monitor infection rates. An infection control (IC) liaison program in the hospital offers an effective paradigm for collaborative practice. A unique, fun, experiential fair was designed and presented by the orthopedic infection control liaisons in the spring of 2005, which reached over 300 other hospital staff and visitors.

METHODS:

In 2005, the liaison group met monthly to design and develop an educational campaign. Each IC liaison developed a poster and booth depicting the role that unit or service played in reducing healthcare-acquired infections. Participation in the campaign included the prescreening unit, the ambulatory care unit, each inpatient orthopedic nursing unit, preadmission surgical unit, post anesthesia unit, the microbiology laboratory, radiology and operating rooms. The liaisons gave a table in the hospital cafeteria for several days, offering small bottles of alcohol based hand rub, candies, pens, ladybug items, and educational material on hand hygiene. Each inpatient nursing unit and other patient care services received hand made flowerpots, which were decorated with foam cut outs of hands as flowers, tulips, ladybugs and a bottle of alcohol hand rub. They were bright and decorative and placed on counter areas where patients, visitors and staff could view them. The following week a day long "Bug Beat Fair" was held which included booths and games for staff and visitors. Booths included infection control jeopardy, bean bag toss, pick a ladybug, micro quiz, PowerPoint presentation, educational handouts, posters and raffles.

RESULTS:

Over 300 staff (~27% of hospital staff) participated in the fair, measured by the number of unique names submitted for raffle prizes. Staff was delighted with the "bugs as spring" flowerpots, the ladybugs and teddy bear gifts they won as game prizes. This campaign served as a way for staff to participate in the infection control program and educate others on the importance of hand hygiene.

CONCLUSION:

Fun, experiential educational projects can be developed and presented to staff and visitors for a marginal cost. The budget, product resources, posters, and flowerpots will be shared as an easy "turn-key" approach for other orthopedic hospitals or outpatient settings to use for infection control education.

EDUCATIONAL POSTERS PREPARED BY IC LIAISONS

PACU and Bond Center

Hand Hygiene Keeps You Safe In The PACU (Post Anesthesia Care Unit) and Bond Center





Activities

- IC Jeopardy
- Lady Bug Bean Toss
- Find The LadyBug
- Microbiology Lab - Identify the Organisms on Plates
- Prescreening Unit PowerPoint Presentation of IC Measures before surgery
- Raffles and Games Prizes:
 - LadyBug bears and gifts
 - Talking Toilets
 - Small Bottles of Cal Stat
 - Bug Clocks
 - Hibigebieb stuffed bugs

4 EAST

We Are The Experts In Precaution Techniques

If you see a Precaution sign at the door entrance, STOP and Check in with a nurse at the desk.




We will instruct you on what to do if your family member is placed on precautions.



5 West and 4 West

New Silver Dressings Will Prevent Contamination to the Incision - Used on 5 West and 4 West for Spinal Surgery



A new antimicrobial dressing is placed over the incision called AQUACEL® Ag - which contains ionic silver in the dressing.

- It provides immediate and sustained antimicrobial activity to the wound.
- It gels on contact with the wound fluid.
- It locks bacteria within the gelled AQUACEL® Ag fibers away from the incision.

The silver is continuously available in the dressing while in place and provides an effective barrier to prevent infection.

- Another dressing has been placed directly over the AQUACEL - it is transparent and waterproof.
- This further protects the incision from environmental and skin contamination.
- The patient may bathe and shower with the dressing in place since it is waterproof.

Aquaged Ag Dressing Absorbs up to 22 times its weight in fluid. It takes fluid away from the incision so good wound healing can occur

5 East

5 East Staff Prevent Infections with Good Hand Hygiene

CDIC Campaign For Hand Hygiene In Health Care Settings



Recent studies have demonstrated that antibiotic resistance in health care workers (HCW) can contribute to health care associated infections. The CDC Campaign on Hand Hygiene strongly recommends the frequent use of alcohol-based hand rubs and soap and water. Several well designed educational, clinical, and epidemiologic studies have demonstrated that hand rubs reduce antibiotic use.

"Evidence supports the belief that improved hand hygiene can reduce health-care associated infection rates. Failure to perform appropriate hand hygiene is considered the leading cause of health-care associated infections and spread of multidrug resistant organisms and has been recognized as a substantial contributor to outbreaks."

CDIC Campaign on Hand Hygiene

We recommend one use alcohol based hand rub that has the following characteristics:

1. If hands are not visibly soiled.
2. Before donning gloves prior to insertion of invasive devices, e.g. intravenous catheters.
3. Before direct patient contact
4. After contact with inanimate objects
5. After removing gloves
6. After direct patient contact

Alcohol based hand rubs are preferred to soap and water for hand hygiene. Hand hygiene is essential to prevent the spread of infections, such as influenza, tuberculosis, and other respiratory viruses, and other dangerous germs. Wash thoroughly under the nail. Observed from Microsites Center.

Jordan 4 Rehabilitation Unit

We Use a Lot of Equipment to Help You Recover and Heal

We have a lot of equipment to clean!



If you have knee surgery - you may be using a continuous passive motion machine to rehabilitate the knee - we change the padding between each patient use and clean the machine.

Rehabilitation requires many assistive devices that we keep clean and free of contamination.

Radiology

Infection Control Measures We Use In Radiology to Prevent Infection Transmission





Cal Stat for frequent hand hygiene

SoniCobts to wipe clean our telephones, key-boards, monitors, equipment, surfaces

Aseptic Technique and antiseptic solution for intravenous insertions and cardiac catheterizations - Chlorprep antiseptic solution is used to prepare the skin

PRECAUTION PATIENTS

Monitoring radiology requires measures to assure we maintain precaution techniques and infection control measures when a patient has a restraint organ (e.g., MBSA, VRL, CAFF)



Ambulatory Care Unit

We Must Always Be Prepared for an Undiagnosed Infection Coming Through the Doors

JOIN US IN ACU JEOPARDY!



The Operating Room

We Make It as Clean and Sterile as Possible

Behind the Scenes



got soap?

Surgical Skin Prep

Sterile Field and Dressings

Handwashing

Sterile Instruments

Surgical Atrium

Terminal Room

Clean-up



Intensive Care Unit

Making Sure NO Organisms Can Enter Your Body Through a Portal

CENTRAL LINE CARE

- We change the dressing frequently and clean the insertion site with antimicrobial solution
- We cover the insertion site with a transparent dressing to prevent Microorganisms from migrating into the insertion site
- We change the IV tubing every 96 hrs
- We change the IV flush bags every 24 hrs
- We flush the arterial lines often to keep them patent and prevent clotting.
- We clean the medication vials with alcohol before using



INDWELLING FOLEY CATHETER CARE

An indwelling urinary catheter is a flexible plastic tube that is inserted through the opening that carries urine from the bladder to outside of the body (urethra), into the bladder, to drain urine. The tube is kept in place by a small balloon that is inflated once the tube is secured in the bladder. Urine drains into a bag that is attached to the thigh. We use silicone catheters that are coated with silver to prevent organisms from migrating up the catheter and into the bladder.