Info-RN: a Newsletter for Nurses
Fall 2013

Meeting the Information Needs of Winnipeg’s Nurses

From the Editor

This month is full of infection prevention awareness. October 15 is Global Hand Washing Day, October 22 is HSC’s 17th Annual Bug Day, October 21 - 25 is National Infection Control Week, and all of October is dedicated to Influenza Immunization Awareness (Get the Shot! Not the Flu!). In this issue of Info-RN you will find online education resources, books, dvds, and journal articles, all on the topic of infection control practices. Find YouTube videos to make your infection control presentation/inservice more dynamic. (E.g. You’ll Like Clean Hands” (with apologies to Dr. Seuss), YouTube video where the University of Manitoba’s Dr. John Embil reads a book about hand-cleaning featuring the character Soapy!) Learn how you can now borrow iPads from the Neil John Maclean Library and how to keep your smart devices clean in the healthcare environment. Also, we highlight Clinical Key, a new online resource available from the Health Sciences Libraries, and provide you with information on how scholarly productivity or research impact is measured.

News

Online Infection Control Education Resources
The following list provides links to online education resources available for free from a selection of Canadian and international sources.

YouTube Videos on Hand Hygiene & Infection Control
Want to make your education/presentation on hand hygiene & infection control more dynamic? Check-out these YouTube videos.

iPads now available at the Neil John Maclean Library!
Beginning October 1st, the NJM Library on the Bannatyne Campus has five 2nd-generation iPads available for one-week loans. Also provided are tips on how to disinfect your mobile device for use in a healthcare environment.

How is scholarly productivity or research impact measured?
Bibliometrics are used to measure the impact or uptake of scholarly communication or research.

ClinicalKey – a comprehensive ‘clinical insight’ search engine
Learn about the Libraries’ newest online resource, ClinicalKey.

Books for Infection Control

Infection Control in Healthcare

eResources

Infection Control Articles

For Your Patient

E-bug

5 Moments of Hand Hygiene

Clean your hands:

1. Before touching a patient.
2. Before clean/aseptic procedures.
3. After body fluid exposure/risk.
4. After touching a patient.
5. After touching patient surroundings.

Subscribe!

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The Health Sciences Libraries support the teaching, research, and patient care activities of the staff and students of the Faculties of Dentistry, Medicine, and the Schools of Dental Hygiene and Medical Rehabilitation.

The Elizabeth Dafoe Library supports the research, study, and teaching requirements of the staff and students of the Faculty of Nursing. Other faculties served by the Elizabeth Dafoe Library include the Faculties of Art, Education, Human Ecology, Physical Education and Recreational Studies, and Social Work.

Working with the Winnipeg Regional Health Authority, the University of Manitoba provides library services to Winnipeg hospitals and long-term care centres. The Health Sciences Libraries now include the Neil John Maclean Health Sciences Library (Health Sciences Centre), and the libraries of Concordia, Grace, Seven Oaks, St. Boniface, Victoria, Deer Lodge Centre, Misericordia Health Centre and the virtual library at Riverview Health Centre.

The Health Sciences Libraries and the Elizabeth Dafoe Library offer a wide range of services — including document delivery, literature searches, and training — and provide access to an extensive collection of monographs, journals, videos, and health databases.

**Publication Information**

*Info-RN* is an electronic newsletter of the University of Manitoba Libraries dedicated to informing nurses in Winnipeg of services or resources that will help them access quality health information. *Info-RN* is published three times a year by the University of Manitoba Health Sciences Libraries. Comments, questions, or letters to the editor should be addressed to: njm_ref@umanitoba.ca

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Online Infection Control Education Resources

Education modules, videos and other training materials are part of the array of approaches used to improve compliance in hand hygiene and other infection control procedures for healthcare workers. The following list provides links to online education resources available for free from a selection of Canadian and international sources.

**CHICA – Canada Education Links**
Community and Hospital Infection Control Association – Canada (CHICA – Canada) provides an extensive list of free education and training aids for healthcare. It includes several programs developed in Canada and internationally, with videos, tools, interactive modules, slides, and posters for the various programs. Also available is a separate list of hand hygiene training videos developed by the World Health Organization, CDC, and the New England Journal of Medicine.

**PICNET Provincial Infection Control Network of British Columbia - C Infection Control and Hand Hygiene Module**
Several online training courses are available from the BC Provincial Health Services Authority Learning Hub. These modules are open to anyone after a quick and free registration. Titles include: Infection Control Basics, Hand Hygiene Module, Protect Patti: Practicing Personal Protection, Prevention of Surgical Site Infections, Workplace Audit Training for Infection Control Practitioners, Central Venous Catheter Care & Maintenance, and Central Venous Catheter Insertion.

**Canadian Patient Safety Institute**
Free access to Canada’s Hand Hygiene Challenge online learning module, created by the Canadian Patient Safety Institute in partnership with Discovery Campus. The module includes a quiz and provides a certificate upon completion.

**Public Health Ontario, Just Clean Your Hands**
This list of resources from Public Health Ontario includes powerpoint training slides, promotional materials, and online handwash and handrub training videos.

**Centers for Disease Control and Prevention - Hand Hygiene in Healthcare Settings - Training**
CDC education and training resources for hand hygiene includes a course and promotional material, educational slide sets and speaker notes, and links to resources from other providers. The CDC has also created an online course “Hand Hygiene and other Standard Precautions to Prevent Healthcare Associated Infections.” It can be accessed at [http://www.cdc.gov/handhygiene/training/interactiveeducation/](http://www.cdc.gov/handhygiene/training/interactiveeducation/).

**World Health Organization, Clean Care is Safer Care - Tools for Training and Education**
Training slides, manuals, and implementation tools have been created by the WHO on the importance of hand hygiene as part of their Clean Care is Safer Care campaign. This webpage from the WHO, also provides a link to videos and podcasts for recent hand hygiene advocacy videos.

Submitted by,
Lisa Demczuk, Nursing Librarian, Elizabeth Dafoe Library
YouTube Videos on Hand Hygiene & Infection Control

Want to spice-up your education/presentation on hand hygiene and infection control? Try incorporating one of these videos found on YouTube. Your sure to find at least one that will capture the attention of your audience, and perhaps a catchy tune that will help reinforce the importance of proper infection control practices.

You'll Like Clean Hands (with apologies to Dr. Seuss)
Nov 17, 2010: “The University of Manitoba's Dr. John Embil reads “You'll Like Clean Hands”, a book about hand-cleaning featuring the character Soapy!”
Running Time: 2:43 min

Healthcare worker hand hygiene educational training video
Dec 2, 2010: “In support of their hand hygiene compliance strategy, the Infection Control team at Penn State Hershey Medical Center created this clip which demonstrates how easy it is for healthcare workers to spread bacteria and viruses among other healthcare workers, patients, and the patient care environment.”
Running time: 3:51 min

Infection control: break the chain
May 26, 2010: “The "break the chain" video shows how easy it is for hospital-acquired infections like MRSA and Clostridium difficile to be spread.”
Runnint time: 4:29 min

ECRMC - "Gotta Be Clean" - Hand Hygiene Music Video
Oct 25, 2011: “Join Sir-Wash-A-Lot and ECRMC in their mission to keep all hands clean and healthy, with this witty remake of the 90's hit "Baby Got Back".”
Running time: 4:41 min

Hand hygiene: It's Safety and I Know it
Jan 31, 2012: “Though this video is a parody, we take patient safety seriously in the Eastern Wisconsin Division of the Hospital Sisters Health System. Hand Hygiene is one of the most important aspects of infection prevention.”
Running time: 3:20 min

Wash 'Em - Hand Hygiene Music Video
Jan 31, 2011: “At Jefferson University Hospitals, we take preventing infections seriously. Our latest effort to boost our hand washing is a video we created called "Wash 'Em." Watch our staff dance around the Hospital while showing the importance of hand washing. You'll be singing our song all day!” (to the tune of Michael Jackson's song "Beat It")
Running time: 5:46 min

INFECTION. Don't be the one to pass it on
Feb 23, 2009: “From the Infection Control Team of the UCLH." If you like the blues, this video is for you.
Running time: 3:26 min
Dawn of the Diff: The C. difficile Zombie Apocalypse
Running time: 2:02 min

One Injection | One Direction Flu Shot Parody
Aug 19, 2012: "Flu shots are safe and effective. They DO NOT cause flu. Vaccinate yourself even if you think you never get sick, because people can carry influenza and spread it to vulnerable people (children and the elderly) without ever having any symptoms themselves. It's about Community Immunity folks, so get your vax on!" From http://ZDoggMD.com
Running time: 2:16 min

The WHO 5 Hand Hygiene Rap
Jun 27, 2011: "Designed to be used as an innovative, contemporary and dynamic training tool to educate hospital staff and other healthcare workers about the WHO five essential hand hygiene "moments" or opportunities, the rap highlights Deb Group's commitment to help prevent healthcare-associated infections (HAIs) through better and more consistent hand hygiene."
Running time: 3:24 min

Submitted by,
Melissa Raynard, Concordia Hospital Librarian
iPads now available at the Neil John Maclean Library!

Interested in checking out an iPad and seeing if they are for you? 71% of nurses are using some form of mobile devices on the job\(^1\) and now you can be one of them! Beginning October 1\(^{st}\), the NJM Library on the Bannatyne Campus has five 2\(^{nd}\)-generation iPads available for one-week loans. The iPads come preloaded with a set of healthcare related apps, which allows you to take a closer look and see which might be helpful for work or study. Many of these apps are downloaded onto your device and do not require an internet connection to work. You can also download any other apps you might be interested in – whether they are for work or fun. When you return the iPads they are completely cleared of any personal information.

Your librarian would be happy to discuss app recommendations with you.

**How-To: Disinfect your mobile device for use in a healthcare environment**

Now that more mobile devices, such as iPads and iPhones, are being used in the healthcare environment it is important to follow proper disinfection procedures. It has been shown the 9-25% of mobile devices may be contaminated with pathogenic bacteria.\(^2\)

There are a variety of ways to ensure your mobile device does not become contaminated with bacteria.

1. Cleaning solution or wipes: In a study of 10 iPads used by nursing staff in clinical wards a four-week period, it was found that the use of a daily disinfection routine with isopropanol wipes led to a 2.7 fold reduction in bacterial load.\(^3\) However, at this time Apple manufacturer guidelines only recommend using a dry fleece for cleaning; use of any other methods may void the warranty if liquid seeps into the device.
2. Proper handwashing procedure: If concerns about voiding the warranty are an issue, users should ensure that they follow correct handwashing procedures both before and after using the device to ensure that cross contamination is minimized.
3. Plastic bags: Students in anatomy labs have found that placing their devices in Ziplock bags ensures easy disinfection while still allowing for use, even by users wearing latex gloves.\(^4\)
4. Disposable tablet sleeves: Packages of 100 disposable touch-sensitive sleeves can be purchased that are discarded after each use.\(^5\)

**References**


Submitted by,
Mê-Linh Lê, Librarian, Health Sciences Centre, Neil John Maclean Health Sciences Library
How is scholarly productivity or research impact measured?

Bibliometrics are used to measure the impact or uptake of scholarly communication or research. Traditional methods include times cited, journal impact factor, and h-index. Newer measures called altmetrics, demonstrate impact at an article-level. Bibliometrics can help you answer questions like:

- How many times is my article read online?
- Is my article cited in another publication?
- Are people talking about my research?
- Over several publications can I determine an impact within my scholarly community?

Altmetrics take advantage of emerging technologies particularly social media. These measures can inform you of the number of times your publication was tweeted, appears in peoples online reading lists, and the number of times it was downloaded. Altmetrics can also capture usage from non-traditional forms of scholarly communication such as PowerPoint slides, institutional repository, and open access journals. Used together traditional and alternative metrics scores creates a more detailed and holistic view of your research impact.

Definitions

Traditional metrics

*Times Cited* is the number of times a particular article is cited by other publications. Times cited counts can be found in Scopus, Web of Science, or Google Scholar. This measure is probably the most commonly used bibliometric measurement.

*Journal Impact Factor* tries to identify the most important journals in a field of study. The impact factor is the average number of citations received per paper published in a journal during the last two year. Used to compare journals within the same field or discipline, Journal Impact Factors can be found in the JCR Journal Citation Reports.

*H-index* is a formula based on a researchers number of publications and times cited. Its purpose is to show the broad impact of an individual’s work. A researcher with an h-index of 10 has at least 10 publications that have been cited 10 times. H-index scores can be found in Scopus or Web of Science.

Alternative metrics or Altmetrics

With more publishing occurring online and communication of research happening in the online environment the opportunity exist to track the usage of information in the digital world. While times cited tell us how many times a paper was references by other papers, altmetric measurements can show how many times a paper was read, discussed, or viewed. Altmetrics offer an immediate picture of new research uptake. Instead of waiting for a paper to be cited, which can take years, the reading, discussing, or tweeting of a paper can happen minutes after its publication. Altmetrics can help determine the uptake of research by diverse groups not just other researches but by practitioners, clinicians, educators, or the public. People who may read and use the information but do not participate in the formal research scholarly publication cycle.

Sources of Altmetric Tools

*Altmetrics.com*

Installing the Altmetric bookmarklet into your web browser will allow you to find out how many times a publication was tweeted, mentioned on Facebook, appeared on a blog site, or used by readers on Mendeley or CiteULike. Simply retrieve your publication click on the Altmetric bookmarklet and the Altmetrics.com donut appears. The Altmetric.com donut can also be seen in the full view of citations found in Scopus.
ImpactStory
ImpactStory.org allows you to create a profile and collect altmetrics on yourself. Add in your publications, slide presentations, or data sets and any altmetrics related to your publications will show.

References:


Submitted by:
Christine Shaw-Daigle, Librarian, Carolyn-Sifton Helen-Fuld Library, St. Boniface Hospital
Starting October 1st, the University of Manitoba Health Sciences Libraries is providing access to ClinicalKey, a full-text search engine that produces rapid and relevant results. While designed to support clinicians with patient care decisions, ClinicalKey is still valuable for nurses, especially advanced practice nurses.

ClinicalKey allows you to quickly access large collections of clinical resources covering every medical and surgical specialty, and includes 15,000+ patient education handouts, 13,000+ videos, 2,000+ clinical practice guidelines, as well as journals, clinics, point-of-care and drug monographs. ClinicalKey offers clinically-relevant answers while drawing on trusted content.

In addition, with ClinicalKey you can:

- Access all content from First Consult, MD Consult, and Procedures Consult in one place.
- Store search terms for fast, easy access.
- Use natural language to search.
- Select copyright safe images to be directly exported to Powerpoint.
- Earn CME credits for searches via the Cleveland Clinic Center for Continuing Education.

Take a closer look at ClinicalKey.

Submitted by,
Mê-Linh Lê, Librarian, Health Sciences Centre, Neil John Maclean Health Sciences Library
Featured Books on Infection Control


A Practical Guide to Decontamination in Healthcare is intended as a training manual and key reference source for those interested in the science, technology and practice of decontaminating devices. The book provides practical advice, in great detail, on all aspects of decontamination including: microbiology and infection control; regulations and standards; containment, transportation, handling, cleaning, disinfection and sterilization of patient used devices; surgical instrumentation; endoscopes; and quality management systems.

Written by experienced professionals, A Practical Guide to Decontamination in Healthcare includes a systematic review of decontamination methods, with uses and advantages outlined for each. Up-to-date regulations, standards and guidelines are incorporated throughout, to better equip healthcare professionals with the information they need to meet the technical and operational challenges of medical decontamination. (Available as eBook)


This new edition is designed to help infection preventionists and environment of care (EC) professionals to collaborate on issues surrounding the EC to develop programs that will protect patients, employees, visitors, and other staff from HAIs. This edition explores various issues and concerns in EC with infection control (lethal and otherwise) that can be prevented through proper management of the EC in the following areas:

- Construction and renovation
- Emergency management
- Environmental services
- Hand hygiene
- Infectious materials and waste
- Medical equipment
- Utilities

*(from Introduction)*


It has been estimated that in developed countries up to 10% of hospitalized patients develop infections every year. Not only is there a substantial cost to healthcare systems, but some health care-associated infections (HCAIs) can be fatal. Since the majority of HCAIs are preventable, reducing HCIAs is now considered to be an integral part of patient safety and quality of care provided by all healthcare institutions worldwide. Unlike other books on infection control, the main strength of this book is to provide practical guidance in infection control in a format which can act as a quick source of reference on all aspects of HCAIs. *(Publisher’s Abstract)*

This book examines the nurse's role in ensuring that patients, their families, other staff, and the public are protected from infections and includes:

- Infection prevention and control education and training methods for nurses in Hospitals, Ambulatory Care, Office-Based Surgery, Long Term Care, Behavioral Health Care, and Home Care
- Successful techniques and tools for incorporating, implementing, and sustaining infection control practices
- Approaches for collaborating with other disciplines to ensure proper infection prevention and control practices
- Strategies for educating patients and their families Practices for monitoring and reporting incidents at the staff and clinical levels
- Effective methods for infection prevention and control practices in critical areas and settings

*(from Publisher’s Website)*


This text offers a comprehensive and practical look at airborne nosocomial infections and includes chapters on outbreak management, isolation precautions, hand hygiene, protective equipment, and control of multi-resistant organisms. Intended as a point of reference for nurses and physicians, this practical book can be used by any healthcare professional working directly with patients or those in administrative positions working on infection prevention and control. [Also available in electronic format]


This book is intended for student nurses and practicing nurses. It educates the reader on effective infection control measures and includes information pertaining to infection control issues and practices in various specialties or areas of health, including labour and delivery, critical care, and dialysis. Chapter titles include bloodborne pathogen standards, immunizations, health care-associated infections, infection control in critical care, medical waste disposal, spills, and antibiotic-resistant infections.

Submitted by:
Laurie Blanchard, Librarian, Sister St. Odilon Library, Misericordia Health Centre
Kerry Macdonald, Librarian, Seven Oaks General Hospital
Infection Control in Healthcare. Toronto, ON: Kinetic Video, 2011. (15 min.)
Call Number: WX 167 I43i 2011 AV

The basic assumption of infection control is that everyone has the potential to be infectious and that anyone can be infected. So begins the film, *Infection Control in Healthcare*, directed by Michael Boland. Over the course of 15-minutes, this video highlights the basic and more advanced principles and responsibilities of nurses to control infection. The film also addresses organizational responsibilities, such as creating infection prevention committees and regular screening of staff.

After watching this video, nurses will be able to:

1. Understand the basic principles of infection control.
2. Perform basic and additional precautions to control infection rates.
3. Protect themselves and patients between the 3 different ways infections are spread: contact, airborne and droplet.
4. Understand the ways to entrench an infection control culture in a healthcare facility.

This video demonstrates proper techniques through examples and highlights the simple actions that healthcare professionals can do daily to ensure infection control.

*Infection Control in Healthcare* is available through the Bill Larson Library at Grace Hospital. To reserve a hold on this DVD please contact your hospital librarian.

Submitted by,
Caroline Monnin, Librarian, Riverview Health Centre
Featured eResource: Infection Control Articles

Below is a selection of recent journal articles on the topic of infection control, available online.


Infection control is the discipline responsible for preventing nosocomial infections. There has been an increasing focus on prevention rather than control of hospital-acquired infections. Individuals working in infection control have seen their titles change from infection control practitioner to infection control professional and most recently to infection preventionist (IP), emphasizing their critical role in protecting patients. The responsibilities of IPs span multiple disciplines including medicine, surgery, nursing, occupational health, microbiology, pharmacy, sterilization and disinfection, emergency medicine, and information technology. This article discusses the structure and responsibilities of an infection control program and the regulatory pressures and opportunities the program faces.


Infection control practices in Europe and the USA have been influenced and shaped over the last 50 years by various technological developments, historical experiences and research schools that have led to different approaches to the control and prevention of healthcare-associated infections. This narrative review attempts to answer the question: Which are the most useful lessons to be learned from this historical experience, as well as methods and measures advocated on both sides of the Atlantic, in order to determine best practices to control and prevent healthcare-associated infections and antimicrobial resistance? The review is intended neither as an expansion of ongoing debates on controversial scientific issues, nor as a complete historical review of modern hospital epidemiology, but should be considered rather a personal viewpoint that tries to bridge the gap between US-influenced hospital epidemiology and traditional microbiology-based hygiene in Europe.


Hand hygiene has been recognized as the most important means of preventing the transmission of infection, and great emphasis has been placed on ways to improve hand hygiene compliance by health care workers (HCWs). Despite increasing evidence that patients’ flora and the hospital environment are the primary source of many infections, little effort has been directed toward involving patients in their own hand hygiene. Most previous work involving patients has included patients as monitors or auditors of hand hygiene practices by their HCWs. This article reviews the evidence on the benefits of including patients more directly in hand hygiene initiatives, and uses the framework of patient-centered safety initiatives to provide recommendations for the timing and implementation of patient hand hygiene protocols. It also addresses key areas for further research, practice guideline development, and implications for training of HCWs.


Aim: To report a study of an intermediary programme in infection control practice in one hospital in the UK. Background Promoting best evidence in everyday practice is a constant problem in infection control. Intermediaries can influence the transfer and use of evidence in health care, but there remains a lack of evidence and theory about the specific actions and change processes, which can be successful in improving infection control practices. Design: An in-depth mixed methods
case study. Methods: The study was undertaken in 2011. Participants were recruited through purposive sampling and included frontline staff, managers and nurses in intermediary roles in infection control. Results: For frontline staff, intermediary presence triggered a modification in behaviour. Different reactions were noted from the intermediaries' high level of physical presence in clinical areas, the facilitative approaches they used to give feedback and the specific teaching strategies they employed to meet frontline staff needs. The specific intermediary actions uncovered in this study were contingent on the prevailing systems for performance management, organisational commitment and efforts in clinical areas to foster a collegiate environment. Conclusions: The study provides theoretical threads of how intermediaries can be successful in promoting evidence use under certain contextual conditions. Further testing of the specific intermediary mechanisms uncovered in this study will contribute to understanding different approaches that work in infection control in embedding evidence in practice.

Submitted by:
Kerry Macdonald, Librarian, Seven Oaks General Hospital

For Your Patient: e-Bug

The kids are back in school and are already bringing home assignments, homework and . . . bugs! With Global Handwashing Day approaching on October 15 this is a good time to highlight a wonderful resource that helps students (and their teachers) learn more about infectious diseases.

e-Bug is a fun and interactive site operated by Public Health England’s Primary Care Unit. With sections for young students, senior students and teachers, this educational resource presents information on the spread, prevention and treatment of infections with the aim to reduce the incidence of antibiotic resistance.

Students will love this site as it includes online games, videos, and worksheets. Topics include microbes, hand hygiene, food hygiene, vaccines and antibiotic use. The senior students page also includes a section on sexual transmission. With bright colours and interesting activities students of all ages will enjoy this site.

For the teacher this site provides lesson plans, student worksheets, activities and PowerPoint presentations. All of the information on the student pages compliments the teacher resources.

Submitted by,
Lori Giles-Smith, Librarian, Grace Hospital Library