

Using Expert Process to Combat Clostridium difficile Infections (CDI)

Isabelle Guerreiro, Program IPAC Specialist, Public Health Ontario Camille Achonu, Epidemiologist Lead, Public Health Ontario

> Hosted by David Ryding **Public Health Ontario**



www.webbertraining.com

February 23, 2017



Acknowledgements

PHO's Infection Prevention and Control (IPAC) Department



www.oahpp.ca

2



Objectives

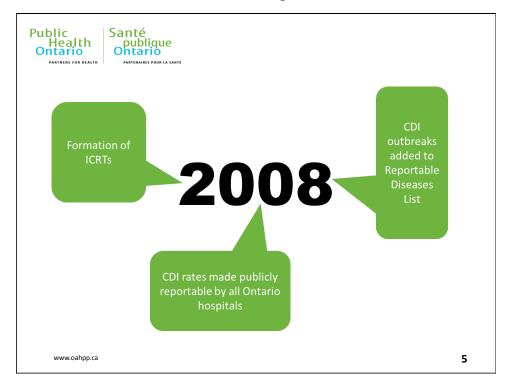
- At the end of the session, attendees will be able to:
 - Describe the Infection Control Resource Team (ICRT) process.
 - Discuss the collaborative role between all those involved in ICRT visit activities.
 - Summarize key areas of practice improvement that were most frequently identified by ICRT visits.

www.oahpp.ca

3



Hosted by David Ryding, Public Health Ontario www.webbertraining.com





Hosted by David Ryding, Public Health Ontario www.webbertraining.com



The ICRT... back then

- Two teams supporting different areas of the province.
- · First point of contact.
- Independently coordinated the ICRT visit process and managed CDI outbreaks.
- Teams included an infectious diseases (ID) physician, infection control professionals (ICPs) and others such as epidemiologist and other PHO staff.

www.oahpp.ca 7



The ICRT... Now

- ICRT visit may be requested in a number of ways.
- Information gathering by IPAC Specialist.
- PHO determines the level of support needed.



mage credit: Microsoft Clipart

www.oahpp.ca

8



ICRT Members

- Drawn from PHO's Infection Prevention and Control Team.
- · At a minimum:
 - · One PHO IPAC physician
 - One Program IPAC Specialist
 - One IPAC Manager
 - · Representative(s) of Regional Support Unit
- Additional PHO members.

www.oahpp.ca

9



Expectations

- PHO ICRT Members:
 - · Refer to best practices
 - Prepared and ready to support facility before, during and after visit.
- Requesting Facility:
 - Available and transparent
 - Senior Management Team Involvement.

www.oahpp.ca 10



ICRT Visit – The Overview and Interviews

- Overview Meeting.
- Interviews with relevant staff and/or teams.



Image credit: Microsoft Clipart

www.oahpp.ca

11



ICRT Visit – The Tour

Opportunity to:

- •See practices in action and validate what we heard and read.
- •Speak with staff, ask questions, clarify our understanding of issue(s).
- •Identify gaps in facility design; patient flow; equipment and supplies management, etc.

Image credit: Microsoft Clipart

12

www.oahpp.ca



ICRT Visit – The Debrief

- Held at the end of the visit.
- Provide preliminary recommendations.



www.oahpp.ca

13



ICRT Visit Report

- Final approved PDF report provided soon after.
- Facility is encouraged to share the report (e.g., local PHU).
- PHO will provide ongoing support through the Regional Support Unit as the facility implements the recommendations.



Image credit: Microsoft Clipa

www.oahpp.ca

14



Regional Support Unit

- · Core Function: Provide scientific and technical support.
- Have pre-existing relationship.
- Work with local PHU to support facility's outbreak management issue(s).



Image credit: Microsoft Clipart

www.oahpp.ca

15



Regional Support Role Before Visit

- Review results of pre-ICRT visit to discuss identified barriers with the team.
- Assist in identifying key issues to ensure appropriate review during the visit.



www.oahpp.ca

16



Regional Role During Visit

- Review of information.
- · Participation during interviews.
- · Gather and share information during the visit.



17

www.oahpp.ca

Public
Health
Ontario
PARTINERS FOR HEALTH

Santé
publique
Ontario
PARTINERS FOR HEALTH

Regional Role Following the Visit

- Provide ongoing support.
- May assist in developing a plan to address recommendations.
- Ongoing follow-up support with facility and local PHU.



Image credit: Microsoft Clipar

www.oahpp.ca 18



Role of Public Health Unit During an ICRT

- Provide PHO outbreak information prior to the visit where applicable.
- Participate during the ICRT visit
 - Overview and debrief meetings
 - Interviews.
- Support Facility
 - Hence importance of sharing report with PHU if not part of the request.

www.oahpp.ca 19



Hosted by David Ryding, Public Health Ontario www.webbertraining.com

Public Health Ontario PARTNERS FOR HEALTH Santé publique Ontario PARTNERS FOR HEALTH

Methods

- Reviewed PIDAC best practices documents and identified 49 high impact recommendations in 14 general categories
- Selected all CDI-related ICRT reports from 2008 to 2012
- For each recommendation, reviewed ICRT reports to identify if hospital did not meet or needed to improve
- Ranked categories in order of most frequently identified



www.oahpp.ca 21



What We Saw From 2008 to 2012...

- Between 2008 and 2012, 22 CDI-related ICRT visits to 19 facilities.
- 3 facilities had two ICRT visits over the five-year period.
- The majority (59%) of ICRT visits were at large community hospitals; the remainder were at acute teaching hospitals (27%) and small community hospitals (14%).



www.oahpp.ca

22

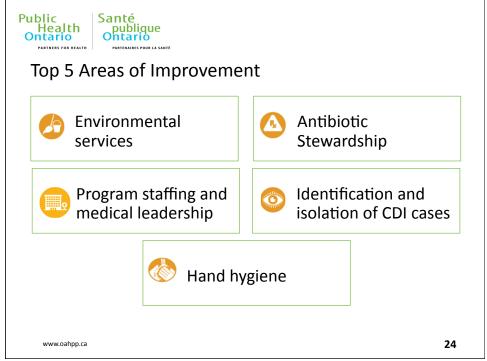


- 4. Identification and isolation of CDI cases (73%)
- 5. Hand hygiene (68%)
- 6. Human waste management (64%)
- IPAC education and training on Routine Practices/Additional Precautions (55%)

14 Areas of Concern

- 8. Audits of IPAC-related practices (55%)
- 9. Senior leadership support (32%)
- 10. Facility design (32%)
- 11. CDI outbreak management (32%)
- 12. Communication and partnerships (27%)
- 13. Access to appropriate and timely laboratory testing (23%)
- 14. Environmental cleaning services, policies and procedures for CDI (23%)

www.oahpp.ca 23





Environmental Services

- Most frequently identified IPAC issues were:
 - Clear processes for cleaning and disinfection of shared patient care equipment
 - · Clear identification of clean versus dirty shared patient care equipment
 - Adequate environmental services resources staffing.



Image credit: Microsoft Clipart

www.oahpp.ca

25



IPAC Program Staffing and Medical Leadership

- Difficulty staffing IPAC programs with ICPs as per minimum requirements.
- Lack of dedicated manager or identification of combined management role.
- Insufficient medical support.
- IPAC program responsible for roles outside their scope.

www.oahpp.ca 26



Antibiotic Stewardship or ASP

- Lack of ASPs with dedicated resources
 - Most in early stage of implementation
 - No dedicated pharmacist and/or physician.
- ASP activities are not sustainable due to limited resources.
- Inclusion of an ASP recommendation added to Annex C of PIDAC's RPAP document in 2012.

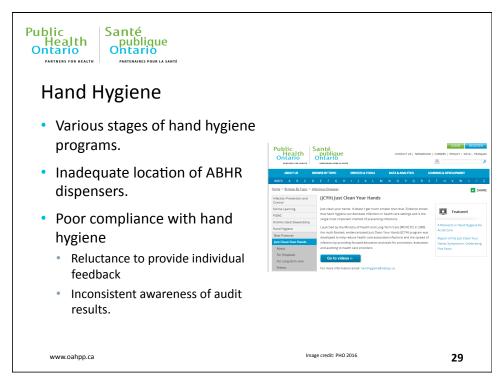
www.oahpp.ca 27



Identification and Isolation of CDI Cases

- Lack of immediate implementation of Contact Precautions when diarrhea was identified.
- Unnecessary movements/transfers of patients
 - · Impacted cleaning and disinfection
 - Created challenges for multiple departments
 - · Made containment of CDI difficult.
- Poor communication between units.

www.oahpp.ca 28





What Have We Learned?

- Identified key common issues where stakeholders require support
- Refer to 49 high-impact recommendations when carrying out ICRT visits
- Informed development of IPAC resources
- Continue evaluation of recommendation up-take to inform impact of ICRT visits

www.oahpp.ca 30



Overall...

- We have learned as much from those facilities experiencing outbreak management issues as they have learned from us
- Teamwork and collaboration has enabled PHO to improve ICRT visit process



www.oahpp.ca

31



Did You Know...

A summary of the ICRT findings has been published in the American Journal of

Infection Control (AJIC) and can be found at

http://www.ncbi.nlm.nih.gov/pubmed/27451312

www.oahpp.ca

32

For further information:

isabelle.guerreiro@oahpp.ca camille.achonu@oahpp.ca

www.oahpp.ca 33



Hosted by David Ryding, Public Health Ontario www.webbertraining.com

www.webbertraining.com/schedulep1.php	
February 28, 2017	(European Teleclass) THE ROLE OF DRY SURFACE CONTAMINATION IN HEALTHCARE INFECTION TRANSMISSION Speaker: Prof. Jon Otter, Imperial College Healthcare NHS Trust, London
March 9, 2017	EVALUATION OF INFECTION CONTROL TRAINING Speaker: Martin Kiernan, University of West London
March 16, 2017	(FREE Teleclass) HOW TO BECOME CIC CERTIFIED WITHOUT BECOMING CERTIFIABLE Speaker: Sue Cooper, Public Health Ontario, Canada
March 28, 2017	(European Teleclass) TREATMENT OF SEVERE MRSA INFECTIONS: CURRENT PRACTICE AND FURTHER DEVELOPMENT Speaker: Dr. Philippe Eggimann, Centre Hospitalier Universitaire Vaudois, Switzerland
March 30, 2017	SCREENING FOR STAPHYLOCOCCUS AUREUS BEFORE SURGERY WHY BOTHER Speaker: Dr. Hilary Humphreys, The Royal College of Surgeons in Ireland
April 6, 2017	TECHNOLOGIC INNOVATIONS TO PREVENT CATHETER-RELATED BLOODSTREAM INFECTIONS Speaker: Prof. Mark Rupp, University of Nebraska Medical Center

Thanks to Teleclass Education **PATRON SPONSORS**





