Navigating through VRE Outbreaks... Lessons Learned



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Objectives

- 1. History of VRE cases and outbreaks at Woodstock Hospital
- 2. Review standard VRE outbreak measures
- 3. Discuss outbreak prevention initiatives and changes
- 4. Key lessons learned

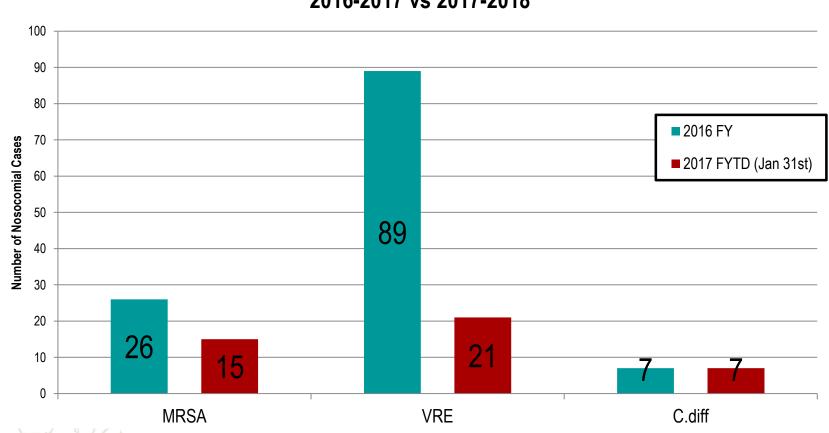






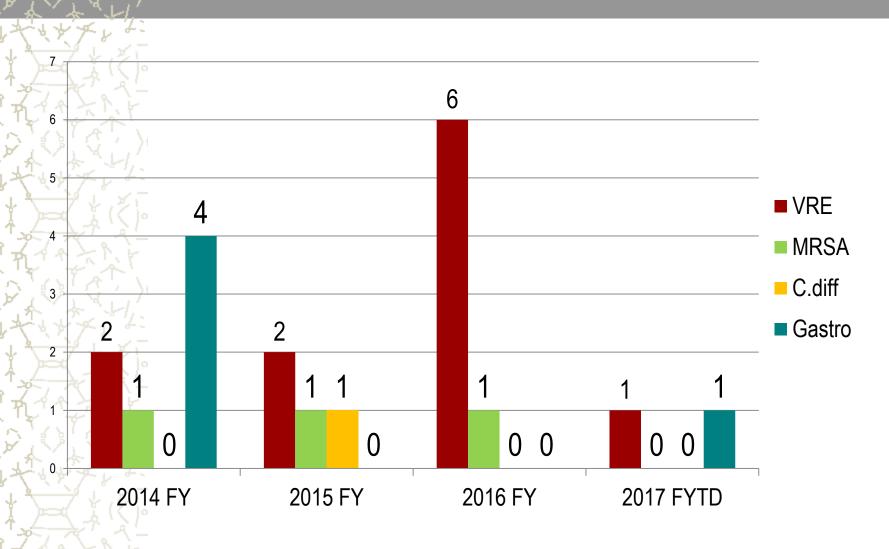
History: Nosocomial Cases

Nosocomial Cases at Woodstock Hospital 2016-2017 vs 2017-2018











Standard Outbreak Measures



Identify cases and contacts

Establish Communication and assemble MDT

Increase surveillance

Increase audits

Enhanced Environmental Cleaning

Enhanced patient care procedures

Limit Bed Move

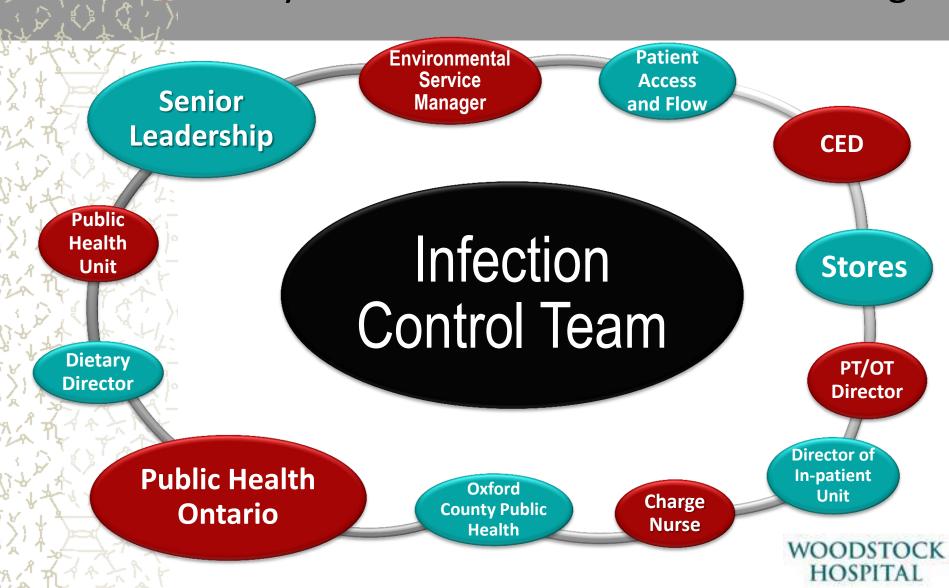


The single-biggest problem in communication is the illusion that it has taken place.

George Bernard Shaw



Key Stakeholders include the following...





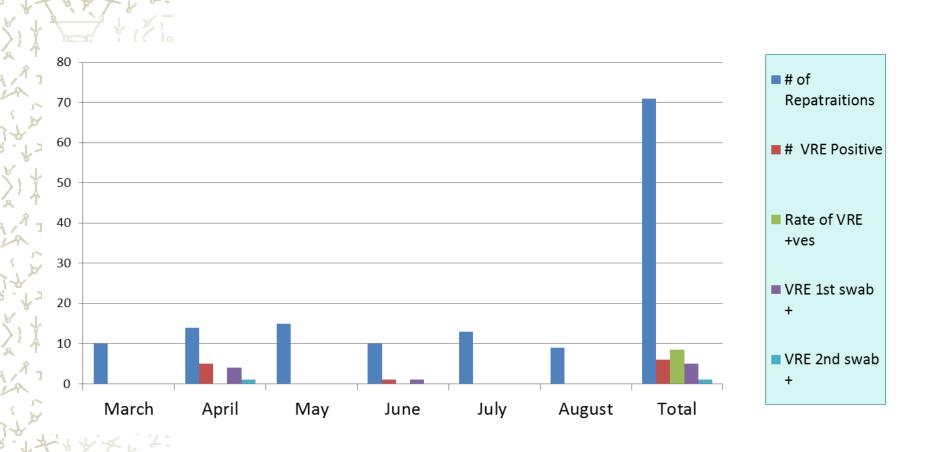
New Outbreak Initiatives: Public Health Support

May 2016 -PHO Suggestions:

- 1. Terminal clean all medical units
- Limit patient supplies in room
- Clean isolation carts
- 4. Commode cleaning process
- 5. Mattress assessment process
- 6. Curtain changing schedule
- 7. Dedicated VRE cleaning cart
- 8. Review of current cleaning products
- 9. Education of standard wiping protocol
- 10. Extend repatriation isolations (48 hr \rightarrow 7 days)









Commode Cleaning Process

TERMINALLY CLEAN COMMODE WITH CART WASHER:

- 1. Enteric & VRE outbreaks
- 2. Clostridium difficile (c. diff)
- 3. If the commode remains visibly soiled

cess

after first cleaning

Commode is cleaned with hospital grade disinfectant

COMMODES DAILY AND TERMINAL

CLEANING PROCESS

WOODSTOCK HOSPITAL

- Ensure to clean both the inside and outside of the commode lid and the underside of the seat and legs
 - Commode is stored in the patient room after the daily and terminal clean is completed

- Commode is wiped down with Sporicidal disinfectant (Clorox™)
- Commode is covered with a yellow gown
- Commode is placed into dirty utility room
- Housekeeping call 8000 and leave a message for portering to pick up Commode chair
 - ⇒ Indicate unit
 - ⇒ Soiled utility room number
 - ⇒ Instructions to send to CED dirty side for commode washing



- Portering identifies dirty commode by yellow
- Takes commode to dirty side of CED through door L738 and places in designated "dirty" area
- Washes hands upon leaving
- Enter the commode in sign in book in CED
 - CED will put commode through cart washer
 - Once commode is dry CED will place outside of CED on "clean" side
 - CED will contact portering at 8000 to return cart
- After 4pm, commodes that require cart washing remain in Soiled Utility Room until next morning. Housekeeping will then notify Portering (ext 8000) to take the commode chairs down to CED (as per the above process).
- On weekends and holidays, commodes that require cart washing remain in the Soiled Utility Room until Monday morning. On Monday morning, CED will call portering to take the commode down to CED.



Testing on Microfibre Cloths



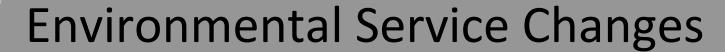
- Vendor for the Every day disinfectant (ED) contacted to determine if PPM level of disinfectant was being reduced by Quat-binding
- The test showed Quatbinding was occurring and suggestions were made to mitigate this challenge



Hydrogen Peroxide-Based Disinfectant



- Oxivir Plus for daily disinfecting effective on Non-Enveloped viruses like Norwalk, MRSA and VRE
- Not as harsh on surfaces
- Contact time is 5 minutes versus 10 minutes
- This product is Eco-certified



Cleaning Refresher Product Change Double clean VRE rooms. once in the morning and again in the afternoon **Mattress Check Protocols Commode Cleaning Process Terminal Cleaning Process Curtain Changing Process Regular Auditing**

Infection Control Prevention



- Additional Surveillance
- Additional Audits
 - PPE
 - Hand Hygiene
 - Environmental
- Daily huddles highlighting outbreak measures to all staff
- Daily e-mail memos highlighting outbreak measures and list of affected patients
- Reinforce outbreak measures with frontline staff
- Reinforce uniform policy in regards to artificial nails, chipped nail polish & jewelry

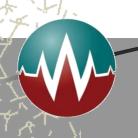
woodstock Hospit	Overvie This is no	otification th	outbreak.	Addition	al meas nfirme	Date out.	reak resol	lared		4	roak measures	S:
Outbreak Memo	In the suspe case: The	last two day ected C. diffi s and 2 prev total unit p utbreak patient Car	is, [UNIT] cile. Curre ciously con opulation Alert	has identicently [UNI firmed sy is [18] par Measur	mpt	MRSA Respirator Gastro suspected or	y utbreak	Organis	ism_	VRE	Outbreak Unit Additional Measures above what is outlined in the outbreak binder Declined measures not implemented from the outbreak binder Sheet1	
For questions of Priv Contact Infectio extension 2449 Friday from 08	ate and Confidential Patier Patier # Inhouse Posit # Total Noso posit	nts on Floor ive Patients						IPAC	eral Line : Manager : ge Nurse :	¢2448		
Afterhours cor switchboard	Patient Name	Room#	Admit Date	WH#	MRSA Review	VRE ving Cases:	ESBL 0	C.diff	Noso	Last Neg.	Comment	
250											7	
444												
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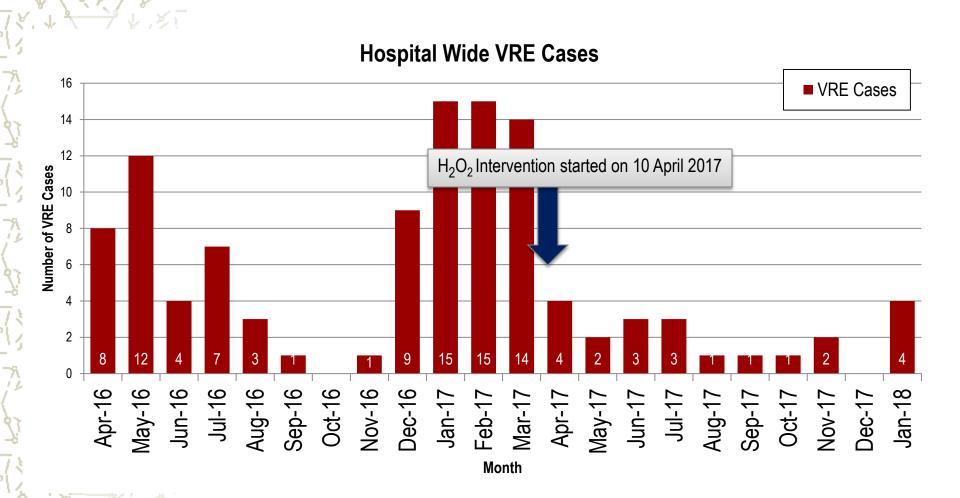
Nursing Prevention Strategies



- Reinforce use of dedicated equipment
- Support staff and families throughout Outbreak
- Listen to front line staff concerns of any outbreak measures
- Ensure staff have necessary equipment and supplies
- Bring in Vendors to educate staff on new products
- Celebrate success of outbreak resolution with outbreak highlights and lessons learned



Nosocomial VRE Cases Pre/Post Accel Trial





New Outbreak Initiatives: Corporate Supported

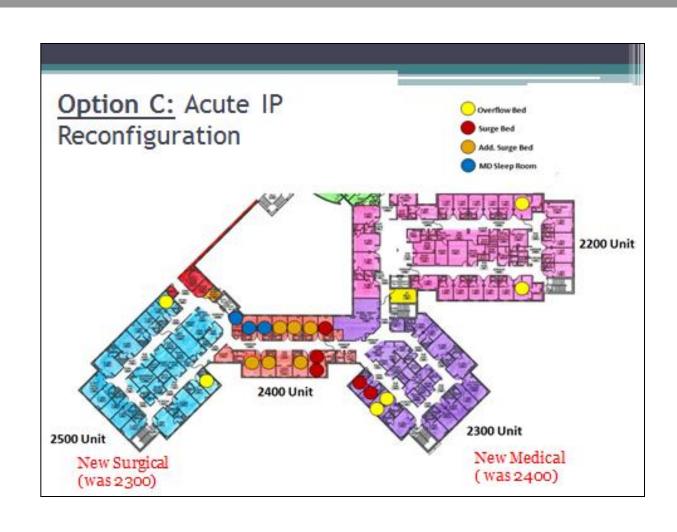
- 1. Changed ABHR product
- Trial of Accelerated Hydrogen Peroxide products

- 3. Isolation trial on repatriations
- 4. Patient bed realignment
- 5. Outbreak calculator

A leader is one who knows the way, goes the way, and shows the way.

John C. Maxwell

Acute Inpatient Changes

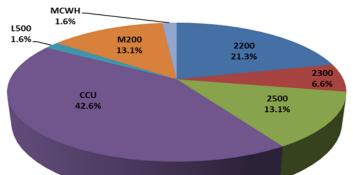


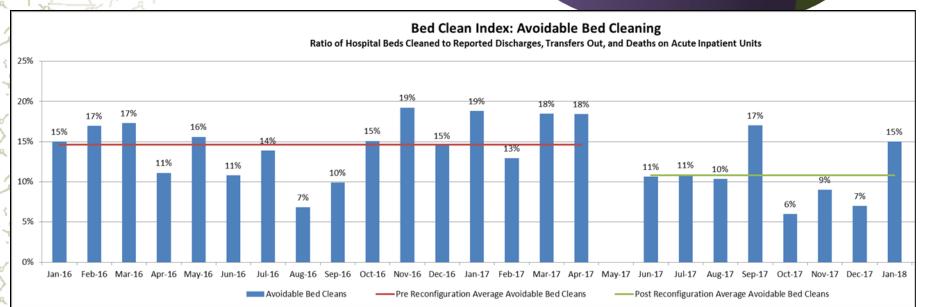


Pre and Post Acute Inpatient Reconfiguration

Pt Safety	Pre- reconfiguration	Post- reconfiguration
Outbreaks	4	0
Nosocomial	1-2/month	0

Delayed Bed Assignment and Bed Moves/Cleans TTIB Outliers by Unit (Post Reconfiguration)







Challenges Present During the VRE Outbreaks



- Staff engagement since VRE screening protocol is not consistent in region
- Errors in prevalence collection thus delaying results
- Outbreak exhaustion
- Artificial nail/excessive jewelry management of policy
- Lack of additional staffing to properly manage outbreak measures.



Take Home Messages



- Network with local and Regional resources
- Engage Senior Leadership for Support
- Never assume staff have Infection control knowledge
- Listen for feedback and suggestions from Front Line
- Use a multidisciplinary approach
- Celebrate the lessons learned



Thank You!

