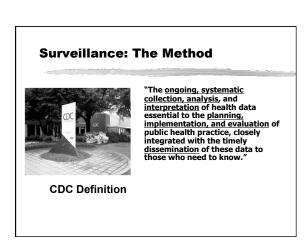


Infection Prevention Activities Surveillance Education Consultation Performance Improvement

Policies and ProceduresCommittee ManagementOutbreak Investigation





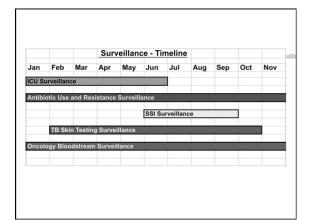
Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com

Types of Surveillance

- Traditional, total house surveillance
 - I Finding ALL healthcare associated infections ALL of the time
 - I Useful to establish endemic rates
 - Rarely used by hospitals; may be required for LTCFs
 - I Time consuming

Types of Surveillance

- Limited, periodic surveillance
 - I Surveillance of specific healthcare associated infections for a specific time period
 - A good method to use in rotating infections to be monitored and when time is limited



Types of Surveillance

- Targeted Surveillance
 - Geographic locations or types of healthcare associated infections may be targeted for review
 - I May consider:
 - l High risk
 - I High volume
 - I Problem prone

What's Recommended for Healthcare Associated Infection Surveillance?

- Active
- Prospective
- Patient-based
- Incidence
- Priority-directed
- Risk-adjusted



Changes in Surveillance due to Setting

- General surveillance methods
- Definitions used
- Reporting of data



Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com

Healthcare Associated Infection **Definition**

- A localized or systemic condition that resulted from adverse reaction to the presence of an infectious agent or its toxin
- Not present or incubating on admission to the healthcare facility

Two surveillance questions

- 1. Is infection present?
 - I Use definitions of infection to determine
- 2. Is it healthcare associated?
 - I Determine by the incubation period of the organism
 - I Previously facilities used 48 or 72 hour rule (bacteria) LTCFs and others often still use that. Acute care follows National Healthcare Safety Network (NHSN) criteria.
 - I Viruses individual incubation periods
 - I Exceptions: SSI 30 days
 - I With implant: 1 year

Definitions of Infections for Acute Care

- CDC definitions
- http://www.cdc.gov/nhsn/psc.html

Definitions of Infections for LTC

- McGeer definitions
- American Journal of Infection Control, 1991; 19:1-7.
- www.apic.org

Final Definitions of Infections for Home Care

- American Journal of Infection Control, 2008
- Developed by APIC
- www.apic.org

Definitions of Infections for Behavioral Health, Correctional Facilities, Drug Treatment Facilities, Rehab, LTACs

- Standardized definitions have not yet been published
- Must adapt existing definitions
- Long Term Acute Care facilities (LTACs) may consider acute care definitions

Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com

An Introduction to Infection Prevention for the Novice Gail Bennett, ICP Associates Inc.

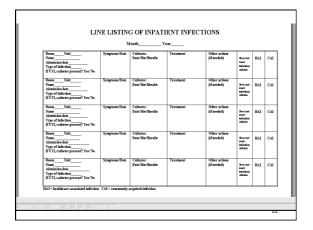
A Webber Training Teleclass

Low numbers or low risk for development of HAIs?

- Outcome surveillance:
 - Patient/client infections
- Process surveillance:
 - Monitoring hand hygiene
 - I Monitoring process for exposure work-ups
 - I Monitoring timing of doses of hepatitis B immunization given



Methods of Presentation of Data (if using a manual system) Line listing Resistant organism line listing Monthly summaries Tables, graphs, charts Maintain in surveillance notebook Methods of Presentation of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Data (if using a manual system) But the listing a manual system of Da



	1	Month	/ear				
RoomUnit Name Start of care date Type of Infection If UTI, catheter present? Yes/ No	Symptoms/Date	Cultures: Date/Site/Results	Treatment	Other actions (if needed)	Don net met inferien criteria	HAI	(
RoomUnit	Symptoms Date	Cultures: Date/Site/Results	Treatment	Other actions (if needed)	Does not meet infection criteria	HAI	C.
RoomUnit	Symptoms Date	Cultures: Date/Site/Results	Treatment	Other actions (if needed)	Doe not meet infection criteria	HAI	CA
Roam Unit Name Start of care date Type of Infection If UTI, catheter present? Yes/ No	Symptoms/Date	Cultures: Date/Site/Results	Treatment	Other actions (if needed)	Descriptions of the control of the c	HAI	C.f
RoomUnit	Symptoms/Date	Cultures: Date/Site/Results	Treatment	Other actions (if needed)	Descriptions of the control of the c	HAI	CA

SCHWART REI	POI	RT I	3Y]	INP	ATIENT	DAYS
	N	Iontl	ı/Yea	ur		
	UNIT			Infections/1000		
	1	2	3	4	TOTAL	Patient Days
Urinary Tract						
With Foley						
Without Foley	П					
Respiratory						
Upper						
Lower (pneumonia or bronchitis)						
Wound						
Surgical		-	-			
Decubitus	+	+	-			
Other (skin)	+	+	\vdash	+		
Conjunctivitis	T	T	T	Ť		1
Sepsis (Bloodstream)	t	t	t	Ť	1	
Other	T	T	T	Ť		
TOTAL BY FLOOR OR UNIT			+	+	+	+

Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com

Urinary Tract With Foley	UNIT 2 3		T	
Urinary Tract	2 3			Infections/100
		4	TOTAL	Patient Days
With Foley				
		Т		
Without Foley				
Respiratory				
Upper				
Lower (pneumonia or bronchitis)		\top		
Wound		Ť		
Surgical				
Decubitus	_	+		
Other (skin)		+		
Conjunctivitis	$\overline{}$	t		
Sepsis (Bloodstream)	$\overline{}$	+	1	1
Other	+	+		

Surveillance notebook

- Large enough to hold 1-2 year's data
- Divided by month (Jan. Dec. tab dividers)
- Behind the month's tab:
 - I Monthly summary
 - I Line listing
 - I Outbreak forms
 - I Compliance monitoring
 - I Lab results (if you choose to keep them)

26

Two surveillance questions

- 1. Is infection present?
 - I Use definitions of infection to determine
- 2. Is it healthcare associated?
 - I Determine by time
 - I Bacteria frequently may incubate in 48 hours
 - I Viruses incubation period
 - I Exceptions: SSI 30 days
 - I With implant: 1 year
 - I Acute care facilities generally use the NHSN criteria

Healthcare Associated Infection Rates using Device Days

X 1000 = New cases of CAUTI Total indwelling catheter days # CAUTI per 1000 indwelling catheter days

Calculation: 10 patients with an indwelling catheter were identified as CAUTI. Total indwelling catheter days for all patients (580) = $10/580 = .01724 \times 1000 = 17.4 \text{ CAUTI per } 1000 \text{ indwelling } \text{ catheter}$

Statistics (example LTC)

New infections for the month

X 1000 = __ Total resident days

inf/1000

resident days

Example: 11 inf./3100 days = .00354 X 1000 = 3.5 infections per 1000 resident days

New infections for the month

outpatient visits)

 $X 1000 = _{-}$

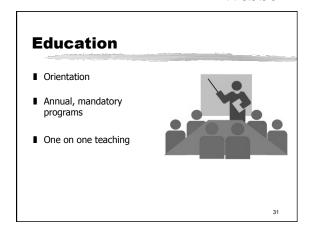
inf/1000 Total outpatient visits

outpatient

Example: 1 inf./210 outpatient visits = .0047 X 1000 = 4.7 infections per 1000 outpatient visits

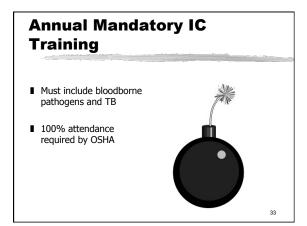
Statistics (example

Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com

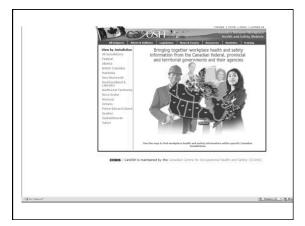


Orientation (Examples) Pamphlets TB Fact Sheet Hepatitis B Vaccine Fact Sheet General IP information, e.g., hand hygiene, PPE BBP training: May use a variety of methods Training must be done BEFORE we offer vaccine Qualified person must be available to answer questions

32







■ CCOHS walks in your facility in 2010 and starts requesting documents ■ "I need your documentation of all employees (FT and PT) for 2008 and proof that they all completed the 2008 mandatory bloodborne pathogens training program." ■ "How quickly can you have that ready?"

Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com

Documenting 100% attendance at annual, mandatory IC program

- Recommendation: if no software program to monitor attendance, print a list of all associates working with the facility at the time of the training.
- Have each associate sign in beside their name
- Review list for those associates who have not signed beside their names to know who needs to attend a make-up course.
- Maintain the records in a safe place.

37

One on One Teaching

- May provide during compliance or surveillance rounds
- Anytime non-optimal technique is observed
- Provide privacy for staff when counseling is done
- Document in your records

38

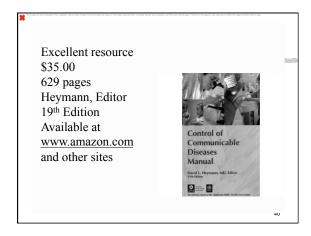
Consultation – You're the Consultant

Use resources to get answers!

- Web sites
- Professional Guidelines
- Textbooks
- Guidelines/policy manuals
- CHICA or APIC chapter
- Other



39



Centers for Disease Control and Prevention
(www.cdc.gov)
NHSN (www.cdc.gov/nhsn)
CHICA-Canada (www.chica.org)
Association for Professionals in Infection Control and Epidemiology (www.apic.org)
Infection Control certification (www.cbic.org)
Webber Training (www.webbertraining.com)
ICP Associates (www.icpassociates.com)



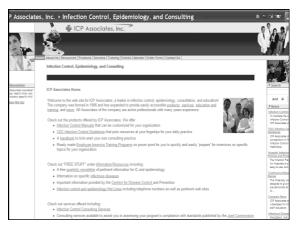
Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com





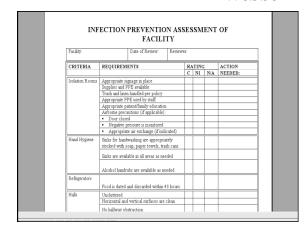


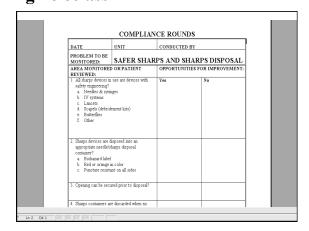


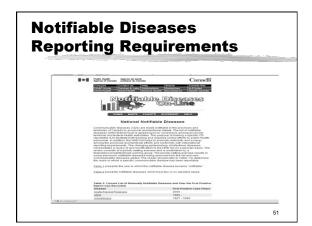


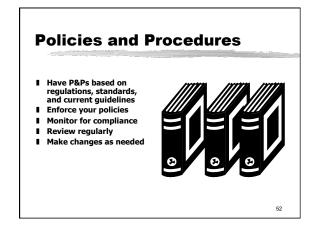


Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com









Committee Management: Infection Control

- Meet on a regular schedule
- Make the meeting convenient
- Have a well prepared written agenda
- Prepare concise, accurate minutes that show problem-solving for IC

Outbreaks

I Outbreak (excess cases over normal)

I Inpatient facilities will usually recognize their outbreaks

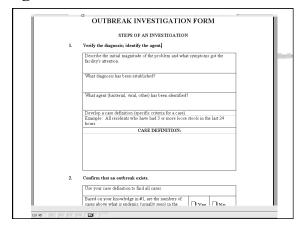
I May be more difficult with outpatient facilities

Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com

An Introduction to Infection Prevention for the Novice Gail Bennett, ICP Associates Inc.

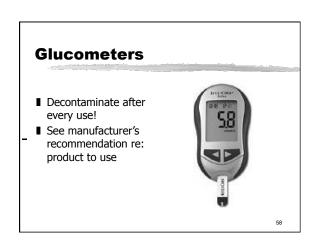
A Webber Training Teleclass

Outbreak Investigation ■ Know when and where to get help! ■ Clearly document your investigation. ■ See outbreak investigation form.



Recent outbreaks relating to Ambulatory Careand an important message to all healthcare organizations! ■ Failure to adhere to basic principles of aseptic parenteral medications ■ Unsafe practices I Syringe reuse between patients during parenteral med administration to multiple patients I Contamination of medication vials or IV bags by accessing them with a used syringe and/or needle

technique for the preparation and administration of I Failure to follow basic injection safety practices when preparing and administering parenteral meds to multiple patients I Inappropriate use of fingerstick devices and glucometer equipment between patients ■ APIC Position Paper: Safe Injection, Infusion, and Medication Vial Practices in Healthcare, 2009 www.apic.org



Problem-solving for Infection Prevention Assessing ■ Planning ■ Implementing ■ Evaluating



Hosted by Paul Webber paul@webbertraining.com www.webbertraining.com

THE	NEXT FEW TELECLASSES
11 Mar. 10	(Novice Teleclass) MRSA Prevention Basics Speaker: Dr. Bill Jarvis, Jason & Jarvis Associates
18 Mar. 10	(Novice Teleclass) How to Prepare for CIC Certification Without Becoming Certifiable Speaker: Susan Cooper, Southeastern Ontario Infection Control Network
23 Mar. 10	(Free Teleclass) Voices of CHICA Speaker: Directors & Guests of the Community & Hospital Infection Control Association of Canada
25 Mar. 10	(Novice Teleclass) Infections in the Elderly Speaker: Christine Nutty, Infection Advice Inc.
01 Apr. 10	Microbial Control of Electronic Medical Equipment Speaker: Dr. Charles John Palenik, Indiana University School of Dentistry
08 Apr. 10	Simple Precautions – Simplifying Infection Control Speaker: Dr. Jim Hutchinson, Health Care Corporation of St. John's
13 Apr. 10	(Free Teleclass) Improvement in Healthcare Settings Around the World
W	ww.webbertraining.com.schedulep1.php