


Infection Control and Ambulatory Surgery Centers

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Objectives

- Understand the purpose of a risk assessment
- Describe the process of creating a risk assessment
- Define properties of a risk assessment

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Disclosure

- Nothing to disclose

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Risk Assessment

- What?
- Why?
- When?
- How?

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Risk Assessment

- "...a systematic examination of a task, job or process that you carry out at work for the purpose of identifying significant hazards, the risk of someone being harmed and deciding what further control measures you must take to reduce risk to an acceptable level."

* Dictionary.com

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What?

- Identify risks and hazards
- Identify process failure
- Identify effects of breakdown or failure
- Prioritize risks and hazards
- In a perfect world, proactive

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Why?

- Required by AHJ
- CMS has granted AAAHC, TJC, AAAASF, IMQ and HFAP the authority to determine if ASCs are in compliance with Medicare CFC
- Provide safest care possible
- Bottom line - \$\$\$

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Hepatitis-C Outbreak Nevada 2007-2008

- Endoscopy clinic
- 8 patients with clinic acquired HCV
- Transmission from contaminated single use vial used on multiple patients
- 63,000 patient exposures and notifications
- Estimated cost of outbreak \$16 million - \$21 million

<http://www.southernnevadahealthdistrict.org/download/outbreaks/final-hepc-investigation-report.pdf>ckto add text

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Setting	Year Investigated	Pathogen(s)	Infection(s)	Patient Notification Performed (# notified)	Infection Control Breaches
Primary Care Clinic	2009	Staphylococcus aureus	Joint Infection	No	1) Mishandling of multi-dose vials used for >1 patient (e.g., handling in the immediate patient treatment area and failure to store according to manufacturer instructions)2) Inadequate hand hygiene3) Incorrect cleaning and disinfection of medical equipment

IDSA. Methicillin-susceptible *Staphylococcus aureus* Infections After Intra-Articular Injections at a Primary Care Clinic

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Setting	Year Investigated	Pathogen(s)	Infection(s)	Patient Notification Performed (# notified)	Infection Control Breaches
Multiple Gastroenterology Clinics	2007	Hepatitis C Virus, Hepatitis B Virus	Hepatitis	Yes (4,490)	1) Syringe reuse (i.e., double dipping) 2) Contents from single-dose vials used for >1 patient

Gutelius B, Perz JF, Parker MM, et al. [Multiple Clusters of Hepatitis Virus Infections Associated with Anesthesia for Outpatient Endoscopy Procedures](#). *Gastroenterology* 2010;139(1):163-170.

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Setting	Year Investigated	Pathogen(s)	Infection(s)	Patient Notification Performed (# notified)	Infection Control Breaches
Outpatient Pain Clinic	2009	Staphylococcus aureus	Bloodstream Infection, Meningitis, Epidural/Presacral Abscess	Yes (110)	1) Syringe reuse (i.e., double dipping) 2) Contents from single-dose vials used for >1 patient 3) Healthcare providers did not wear facemasks when performing spinal injection procedures

Radcliffe R, Meites E, Briscoe J et al. [Severe methicillin-susceptible Staphylococcus aureus infections associated with epidural injections at an outpatient pain clinic](#). *AJIC* 2011; Jul 20

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When?

- As part of the paperwork necessary to open ASC
- To establish goals
- When breach occurs
- Annually

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How?



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Identify Risks and Rank Them

- AAAHC standard – risk assessment becomes the basis for infection control program
- TJC requires written infection control plan based on the risk assessment

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CMS 416.51 Condition for Coverage

- The ASC must maintain an infection control program that seeks to minimize infections and communicable diseases

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ASC Infection Control Program

- Based on nationally recognized guidelines
- Be directed by designated HWC with IP training
- Part of the Quality Improvement program
- Be ongoing
- Include actions to prevent, identify and manage infections and communicable diseases

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Risk Assessment

- Fluid document
- Based on patient population
- Geographic location
- Socioeconomic factors
- Community conditions

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Risk Assessment

- Basically four answers
 - What can go wrong?
 - How bad?
 - How often?
 - Is there a need for action?

* National Patient Safety Agency, March 2007

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Risk Assessment

- Team project – members affected by the process
- Clearly define the process
- Limit the scope
- Changes and recommendations must be addressed

* infectioncontroldaily.com/risk-management/two-new-aaahc-institute-tools-help-protect-patients-avoid-risk

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Risk Assessment

- Not all subjects apply to all facilities
- Using a "tool" can be very helpful
- Many organizations and websites have tools
- Follow the same logic

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Program Components	Probability of Performance- <i>Failure</i>				Impact (Clinical/Financial/Resources)			Infection Prevention Systems				Score	Goal
	High	Med	Low	Never	High	Moderate	Minimal	Poor	Fair	Good	Excellent		
Potential Risks/Problems	3	2	1	0	3	2	1	3	2	1	0		
Mandatory (no opting out) Local, State and Federal Regulation (add 7 to all items in this column)													
Procedures HAI's													
Surgical Site Infections													
SSI-Ortho Joint Replacement													
SSI-plastic surgery													
SSI-ophthalmology													
SSI-													
SSI-													
SSI-													

Premiersafetyinstitute.org

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Potential Risks/Problems	Probability					Risk/Impact (Health, Financial, Legal, Regulatory)					Current Systems/Preparedness					Score	
	Expected a	Likely	Maybe	Rare	Never	Catastrophic Loss (Life/limb/ financial)	Serious Loss (Function/ financial/ Legal)	Prolonged Length of Stay	Moderate Clinical/ Financial	Minimal Clinical/ Financial	None	Poor	Fair	Good	Solid		
	4	3	2	1	0	5	4	3	2	1	0	5	4	3	2	1	
ABX Resistant organisms MRSA C Diff VRE ESBL/Other Gram Negative bacteria Failure of Prevention Activities Lack of Hand Hygiene Lack of Respiratory Hygiene/ Cough Etiquette Lack of Patient Influenza Immunization Lack of Patient Pneumovax immunization	Isolation Activities Lack of Standard Precautions Lack of Airborne Precautions Lack of Droplet Precautions Precautions					Preparedness Exposure to Bio- terrorism Agents Exposure to SARS/Pandemic Influenza/Other Respiratory Infections					Environment Contaminated dialysis water system Infection From Inadequate Sterilization Legionella Disease Infection From Inadequate Air Handling						
	Policy and Procedure Lack of current policies or procedures - (specify) Failure to follow established policy or procedure (specify)					Source: National Surgical Hospitals											
	Risk Assessment Completed on: 12/2/09																
	Present (list names): ID, MD, ICC Chair Pharmacy IP EH RN MD Quality Lab Administration CS OR Housekeeping Engineering																

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Risk Assessment Completed

- IP Program developed
- Working towards completing goals
- Something happens

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Issue	Probability of Occurrence (1-5)	Severity of Consequences (1-5)	Ability to Detect/Prevent (1-5)	Control Measures (1-5)	Residual Probability (1-5)	Monitoring Frequency	Comments
Hand hygiene breaches	3	3	2	3	11	Monthly	
Contact Precaution Breaches	3	2	3	3	11	Monthly	
*Heater-Cooler associated SSI	1	4	2	2	9	Monthly, As necessary	
Total hip and knee replacement SSI	2	4	1	2	9	Weekly	
CABG SSI	3	4	1	2	10	Weekly	
Sharps Injuries/BBP Exp.	3	2	2	3	10	Monthly	
Spinal Fusion SSI (Neuro)	3	4	1	2	10	Weekly	
Construction breaches	3	3	2	1	9	Weekly	
HLD Sterilization	2	3	2	2	9	Monthly	
Hysterectomy SSI	2	3	1	3	9	Monthly	
Cranotomy SSI	1	4	3	1	9	Weekly	
Spinal Fusion SSI (Ortho)	1	4	1	2	8	Weekly	
Colon SSI	2	3	1	2	8	Weekly	
CNE and other emerging MDROs	2	3	1	2	8	As necessary	Include KPC and NDMs

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Prioritize and Develop Goals

Team Goals 11.2.18

Transmission based precautions:

- Interest in expanding observations to floor staff and ancillary services, trial

Education:

- OR education per POD- IP standard education, collaborate with POD educators
- Increase involvement with RNFA group, share SSI data
- Consider education rounds with areas- specific topic of interest, provide education
- Did you know Q&A- education PSG liaisons, maybe electronic dissemination
- Review OR observation tool for necessary edits

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Prioritize and Develop Goals

Hand hygiene:

- Vitrics dressing care with hand hygiene updates
- Family and visitor hand hygiene observation trial

- Create proposal
 - Identify trial areas
 - Reconvene small HH team
 - Plan to trial by end of Q1
- Complete behavior modification placards
- HH super-users observers- help get unbiased data
- HH education blitz- similar to initial roll out

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Prioritize and Develop Goals

EVs:

- Revisit roles and responsibilities in ORs that have changed (W&I, POD 1, new areas in PVT)
 - Pre and post roles and responsibilities glow germ assessment

HLD/Reprocessing:

- HLD education on SABA
- Involve end users in pre-cleaning audits

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Prioritize and Develop Goals

SSI:

- Reduction of HYST SSI, capture process
- Incorporate pieces from COLO study (HB), normo-thermia and glucose
- Site prep-annual vendor training
- Internal IP SSI team- around

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Goals

Unit/Issue	Team members	Goal	Current state	Desired state	Steps identified	Action plan	Progress	Priority (H/M/L)
*Transition band procedures	Goal		>95% housewide compliance 50%	Improved compliance rates	Wegmans not aware, or not used			
	Unit		Dependent observation areas: ID, OR, Preoperative areas, Endoscopy		Resources to conduct observations	New IP position		
	New IP position		Only IP conducts observations	Report observation quantities	Small number of observers	Weekly observation perform after band hygiene audits		
			One site isolation gloves	Appropriate use given available for all ORs	Gloves not used to accommodate all cases	High new OR isolation gloves		
Environmental Services	Goal		Complete and roll out rules and responsibilities to all isolation areas		Complete and roll out rules and responsibilities to all isolation areas	Complete compliance nursing rules and responsibilities document for areas without HST MR document		
	Unit	Unit times	Not capturing real time compliance	Charterist EOI reports	Responsibilities			

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Goals

Prevention of SB	Single, Peter, John	• CMEG SB PPS rate 4.25 • CMEG SB PPS rate 4.2 • CMEG SB PPS rate 4.2 • New SB PPS 3.1			• While lag time from procedure code to SB observation • Antibiotic order and administration changes • Surgical site prep machine education			
	Robert, Angela, Corey, Lisa	• All of documentation for non-mandatory reporting procedures (i.e. SBMS, TST, TNA, V/SIS)			• Billing system challenges post SB observation and documentation • Non-compliance education to surgical teams for machine maintenance, cleaning and disinfection of common impact of non-reportable procedures			
	Casey, Angela, John	Current tool does not capture all necessary data points		Revised SB observation tool				
	Tina, Robert, Angela, Casey, John, Kyle, Ashley, Kristin, etc.	SB performance that includes and landing needs to support, standardize with internal support resources		Automate post SB compliance communication to surgical groups	• inconsistent surgeon response to post SB observation • increased ability for PPS to conduct post SB observation • consistent education to surgical groups for staffing and contributing work (high effort/low yield)	• build SB team to develop standard • small communication for post SB care to appropriate surgical groups • consistent training on SB observation process to distribute work to respective surgeons and to PPS		

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[illegible][illegible][illegible]

Department: Pharmacy and Ophthalmology 9/29/2018

Event: Due to a change in practice of eye drops being taken in an exam bag, throughout the house for consultations, pharmacy asked for a review of the procedure for aseptic administration of eye drops.

1. Description of potential hazard and population impacted:	The potential hazard is the contamination of the eye medication tip.
2. Individuals participating in the risk assessment:	
3. Standard and/or References:	American Society of Ophthalmic Registered Nurses. Recommended Practice for Registered Nurses – Use of Multi-dose Medications. San Francisco, CA: American Society of Ophthalmic Registered Nurses; 2013. Available at: www.asorn.org. Infection Prevention in Eye Care Services and Operating Areas and Operating Rooms - 2012. AAO Quality of Care Secretariat, Haskins Center for Quality Eye Care
4. What safeguards are currently in place to prevent harm:	Protocol in place based on above reference on proper way to instill eye drops and directions to throw away bottle if tip become contaminated by any means. Dedicated single patient bottles are to be used if isolation precautions are in place or patient has eye infection.
5. Assess the likelihood of harm occurring from the potential hazard and the possible severity of the consequences using the scales below. Mark the box identifying the assessed level of risk after the effectiveness of existing safeguard are considered.	

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Qualitative assessment of breach	Decision regarding patient notification and testing
<input type="checkbox"/> Category A involves a gross error or demonstrated high-risk practices, includes obvious or likely blood/body fluid exposure	Patient notification and testing is warranted
<input type="checkbox"/> Category B involves a breach with lower likelihood of blood exposure	Consider the following factors in the decision regarding patient notification and testing: <ul style="list-style-type: none"> • Potential risk of transmission • Public concern • Duty to warn vs. harm of notification • Quantified risk Based on above considerations the following will occur: <input type="checkbox"/> Testing and notification <input type="checkbox"/> Testing; notification performed as needed <input type="checkbox"/> No testing or notification required
<input checked="" type="checkbox"/> Less than minimal risk	Patient notification and testing not required

6. Conclusions: This assessment was not conducted because of an actual exposure, but to prevent any future harm

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Risk Assessment

- Mandated by AHJ
- Must be multi-disciplinary evaluations
- Influences direction of IP program
- Establishes goals
- Reviewed on regular basis
- Fluid document

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Questions?

Thank you!

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