

# 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 compliant 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> to 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	<ul style="list-style-type: none"> <li>1) Mishandling of multi-dose vials used for &gt;1 patient (e.g., handling in the immediate patient treatment area and failure to store according to manufacturer instructions);2) Inadequate hand hygiene</li> <li>3) Incorrect cleaning and disinfection of medical</li> </ul>

IDSa. Methicillin-susceptible *Staphylococcus aureus* Infections After Intra-Articular Injections at a Primary Care Clinic Excellentia | University Infection Prevention Conference

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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

Gutierrez 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/Perimedullar 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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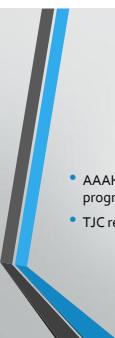
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### Identify Risks and Rank Them

- 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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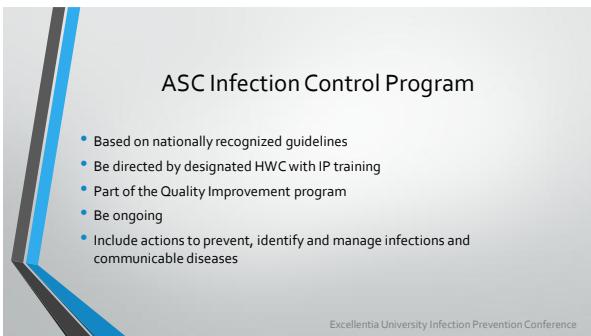
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## ASC Infection Control Program

- 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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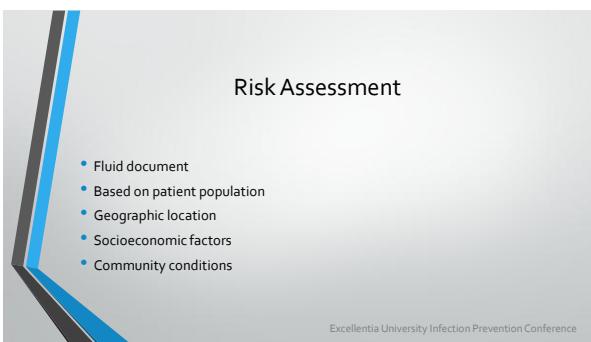


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## Risk Assessment

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

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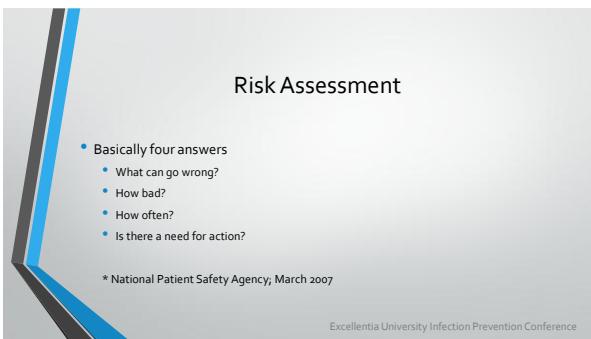
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## Risk Assessment

- 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

\* [infectioncontroltoday.com/risk-management/two-new-aaahc-institute-tools-help-protect-patients-avoid-risk](http://infectioncontroltoday.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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Premiersafetyinstitute.org

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Prevention Activities									
Hand Hygiene program	High	Med	Low	Never	High	Moderate	Minimal	Poor	Fair
Standard Precautions	High	Med	Low	Never	High	Moderate	Minimal	Poor	Fair
Transmission of agents	High	Med	Low	Never	High	Moderate	Minimal	Poor	Fair
Appropriate prophylactic antibiotic	High	Med	Low	Never	High	Moderate	Minimal	Poor	Fair
Appropriate OR attire	High	Med	Low	Never	High	Moderate	Minimal	Poor	Fair

Environment									
Medication Refrigerator Temp logs	High	Med	Low	Never	High	Moderate	Minimal	Poor	Fair
Sterilization monitors	High	Med	Low	Never	High	Moderate	Minimal	Poor	Fair
Microbiological/Air Quality air handling	High	Med	Low	Never	High	Moderate	Minimal	Poor	Fair
Positive Pressure room monitoring	High	Med	Low	Never	High	Moderate	Minimal	Poor	Fair
Cleaning/high level disinfection process	High	Med	Low	Never	High	Moderate	Minimal	Poor	Fair
Construction/Renovation Program (ICRA's)	High	Med	Low	Never	High	Moderate	Minimal	Poor	Fair
Regulated Waste Management Program	High	Med	Low	Never	High	Moderate	Minimal	Poor	Fair

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Program Components	Probability of Performance Failure				Impact (Clinical/Financial/Resources)			Infection Prevention Systems			Score	Goal
	High	Med	Low	Never	High	Moderate	Minimal	Poor	Fair	Good		
Potential Risks/Problems	3	2	1	0	3	2	1	3	2	1	0	27
<b>Policy Procedures</b>												
Current policies or procedures related to infection control and prevention												
Established policy or procedures-safe												
Infection prevention policies												
<b>Preparedness</b>												
Bioterrorism Agents												
Norovirus/Influenza/Other Respiratory Illness												
Outbreak												
Community ID Risk-Lice/scabies/bed bugs												
<b>Employee Health</b>												
Annual TB screening (TST/QFT)												
Annual Fit Testing												
TB/Respiratory Infection program												
Bloodborne Pathogens Plan												
ATD/Tuberculosis Plan												
<b>Multi-Drug Resistance Organisms</b>												
Methicillin Resistant Staph aureus												
C diff (Clostridium difficile)												
VRE (Vancomycin Resistant Enterococcus)												
ESBL/CRE (Extended Spectrum Beta Lactamase/Carbenicillinase Resistant Enterobacteriaceae)												

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The Infection Control (IC) Risk Assessment grid is a visual tool to develop IC program priorities and stratify infection risks based on our geography, location in the community, and our patient population. The annual IC Plan is developed based on these risks. The Risk Assessment is an ongoing, continual process. If an outbreak should occur it will take precedence over the IC Plan.

Zero-Process has been going well low 0-Processes are initiated and being followed. Med or 2-The processes in place are working well and the outcomes are improving and sustaining. High or 3-Training or education sessions may need to be scheduled.

Risk Assessment Completed on: Date \_\_\_\_\_ Name \_\_\_\_\_

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Event	Probability of Occurrence (High/Moderate/Low)	Severity of Infection (mild/severe)	Ability to Detect Infection (Yes/No)	Control Measures (Yes/No)	New Risk Priority	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	
Craniotomy 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	
CRE 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 PSO liaisons, maybe electronic dissemination
- Review OR observation tool for necessary edits

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## Prioritize and Develop Goals

#### Hand hygiene:

- Vitricks 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:

- Revise 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

**Issue/Topic**

*Shareholder based processes	sell	> 10% household completion 67%	Improved consumer outcomes Consumer protection areas: - Data protection - Retail - Banking	Requires new laws, or modified existing laws	None
	buy	Only evaluated within impact areas	Resource to conduct observations	None	New IP position
	New IP position	Only IP conduct observations	Observe consumer realities Small number of observers	Market observation platform after final regulation analysis	None
	see	see relevance genes	Appropriate risk genes Appropriate risk for all firms	None	None to accommodate all firms The 2025, relevant genes
Environmental Services	sell	Make an environmental improvement and prevent environmental harm	Complete the sell-out strategy and focus on divestments	Confirms on divestments and completes the sell-out strategy	Optimize temporary insurance rates and implement insurance for areas with high environmental risk
	buy	Meet laws, rules, and regulations and live compliance	Quarterly ESG reports	None	None
	see	None	None	None	None

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## Goals

Presentation of SE	COLLEGE LEVEL 4.2		• Involvement in the development of the SE, has 10 yrs exp.	• Involvement in the development and administration of plans, policies, and procedures for the SE, has 10 yrs exp.
	Signs, Symptoms, and Behaviors	Diagnosis		
Robert, Angie, Carter, Lisa	• Lack of motivation for non- timely/mandatory procedures (e.g., EHR, CPT, ICD, DSM)	• Billing and revenue enhancement and EPIC (Invoicer and Revenue)		• Increased attention to process owned by the organization, planning and implementation
				• Unknown impact of non-reportable processes
Craig, Angie, Laken	• Current task does not capture all necessary data points.	• Revised DR observation tool.		
Todd, Robert, Angie, Carter, Laken (sys 40+ yrs; overhead)	• DR performing that reviews and sends back to subject, sometimes with minor errors	• Automate and DR surveillance group communication to target groups	• Increased cognitive response to patient DR suicidal events • Increased attention to DR procedures • Increased attention to process owned by the organization, planning and implementation	• Initial 100 team to develop standard mental communication for DR care • DR surveillance group • DR surveillance group to be developed • Process to distribute analysis to respective analysts to DR

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## Situational Risk Assessment

- Evaluate hazard
- Compare to standards or references
- What safeguards currently in place
- Likelihood of harm

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## Situational Risk Assessment

- Department involved
- Describe potential hazard and impacted population
- List participants in risk assessment
- Any standard or reference involving the situation
- Current safeguards

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## Situational Risk Assessment

- Likelihood of harm
- Conclusions
- Review/approval
- Action plan

Qualitative assessment of breach	Decision regarding patient notification and testing
<input checked="" type="checkbox"/> Category A involves a gross error or demonstrated high-risk practice, includes obvious or likely blood/body fluid exposure	Patient notification and testing is warranted
<input checked="" 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: - Potential risk of transmission - Public concern - Duration of harm of notification - Quarantine
<input checked="" type="checkbox"/> Category C involves a breach with minimal risk	Consider the following factors in the decision regarding the following will occur: <input checked="" type="checkbox"/> Testing and notification <input checked="" type="checkbox"/> Testing, notification performed as needed <input checked="" type="checkbox"/> No testing or notification required
<input checked="" type="checkbox"/> Less than minimal risk	Patient notification and testing not required

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Department: Pharmacy and Ophthalmology      9/29/2016

**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 Medication. San Francisco: American Society of Ophthalmic Registered Nurses; 2013. Available at: [www.asorn.org](http://www.asorn.org). *Infection Prevention in Eye Care Services and Operating Areas and Operating Rooms - 2012*. AAO-Quality Eye Care, Hopkins 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:**

Category A involves a gross error or demonstrated high-risk practice, includes obvious or likely blood/body fluid exposure

Category B involves a breach with lower likelihood of blood exposure

Less than minimal risk

**Decision regarding patient notification and testing:**

Patient notification and testing is warranted

Consider the following factors in the decision regarding patient notification and testing:

- Potential risk of transmission
- Public concern
- Duty to warn vs. harm of notification
- Quarantined risk

Based on these considerations the following will occur:

Testing and notification

Testing: notification performed as needed

No testing or notification required

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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