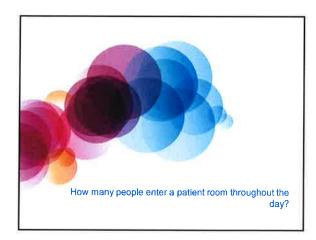
James Hernandez Objectives Describe the newest changes in the guidelines for disinfection in healthcare facilities, Describe the newest innovation and technology for cleaning in healthcare facilities. Describe some ways to validate the effectiveness of the cleaning procedures in healthcare facilities, Introduction Welcome to Healthcare December 26, 1989 Here we are today October 2017 What do we know Increasing evidence the role of environment has on infection rates · UV robotic technology New emerging technologies are proving to be effective · Better tools · Shrinking budgets







Potential Cross Contamination

Between 5 AM - 8 PM

- Number of room entries = 5.5/hour (28 max)
 Staff entering room = 3.5/hour (18 max)
 People in room during waking hours = 15 hrs, 5.5 /hr = 82.5 people
- Who came in room?

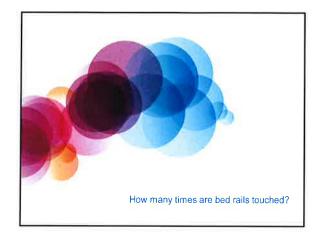
 45% = Nursing staff

 23% = Personal visitors

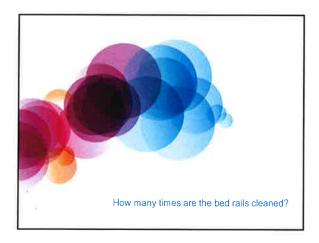
 17% = Medical staff

 8% = Nonclinical staff

 4% = Other clinical staff



	Potential Cross Contamination
Grand Central Station	
- 15 hrs. (5.5/hr.) = 82.5 people	
 68% nursing/medical staff 	
 32% visitors/nonclinical staff 	
Cross Contamination	
 Bedrail touches per day = 256 	







	Surface Contamination
Most Surfaces in Patients' Roo	ms are Contaminated
- Countertops	
- Cabinets	
 Bedrails 	
- Nurse call	
 Computer key boards 	
Cross Contamination	
 Once HCW touch surfaces 	their hands or gloves are contaminated
 Hand hygiene / glove comp 	pliance
The Joint Commission Journal on Quality and Pitterst Safety, January 15,	





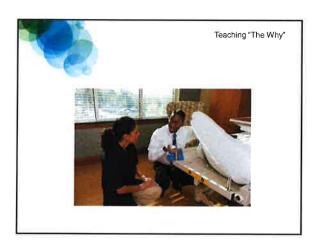
Soft Surface Cleaning

Can you disinfect curtains or fabrics?

- Fabrics can not be disinfected
- EPA has approved products with a sanitizing claim on soft surfaces
- Incorporate soft surface cleaning in key areas (Patient rooms, Recovery, ER, lobbies, waiting rooms)
- Use of disposable curtains is a growing trend





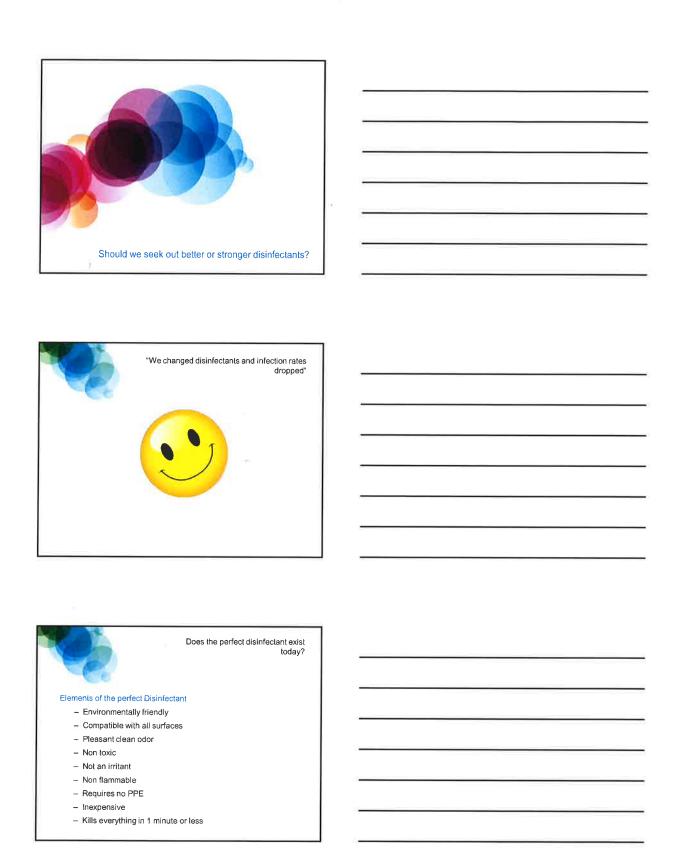




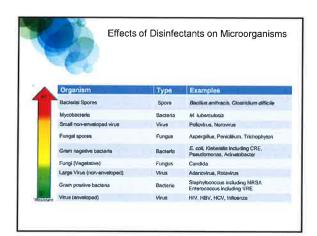
Making a Difference – One Team with Common Goals

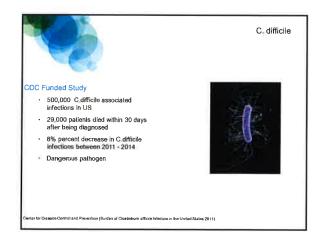
The Facts

- Proper disinfecting practices reduces microbial contamination and reduces risks
- Collaborative approach with key hospital leadership, IP's, Administration, Physicians, Nursing and EVS Leadership
- Zero HAI's by 2021

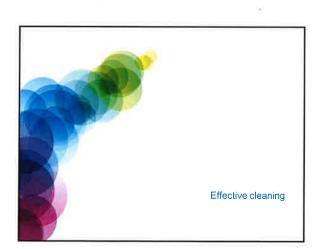






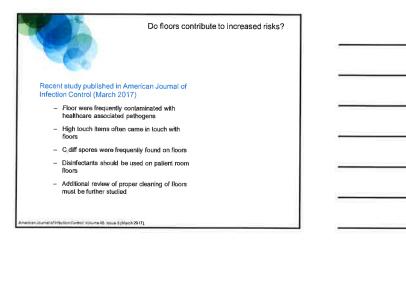


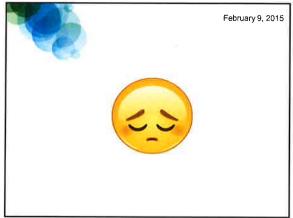
	Disinfectant lypes	
High-level		
 Kills all organisms, except high levels of bacterial spores 		
Intermediate-level		N
- Kills TB, most viruses, and bacteria		
Low-level		·
Kills some viruses and bacteria with a registered germicide hospital-grade disinfectant		
1		:
Cartier to Dames Common and Prevention (Infection Control Guidalines /		
	Surface Types	
Critical (High Risk / High-level)		
Surgical devices, invasive instruments, enters sterile body cavitles		
Semi-Critical (High-fevel)		
Contacts mucous membranes endoscopes, respiratory equipment		
Non-Critical (Low-level)		
Bed rails, bed pans, furniture, door knobs, light switches, floors		

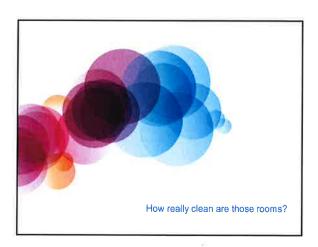


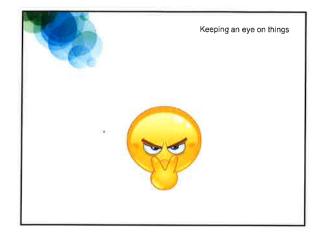
We need better and more frequent cleaning and disinfecting practices — Designed to reduce organic and inorganic material — Top to bottom / Clean to dirty — Utilize good friction — Microfiber / disposable wipes — P.O.C. (Point of Care) — Avoid aerosol products	
Our Primary Objective Get patient care areas hygienically clean (not sterile) free of pathogens in sufficient numbers to prevent human disease	
Use proper tools that enhance cleaning results Microfiber Benefits — Time & labor saving — Reduces chemical use — Prevents cross-contamination — Four times more effective than cotton regs	

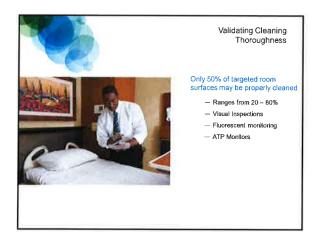








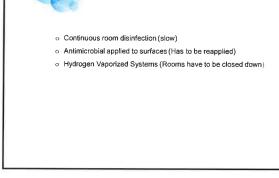






	Fluorescence Marking Devices	
		\$
User friendly / cost effective — Easily cleaned		
Environmentally stable Trending tool / statistics	The Real	2
—Applied by IP's		
	-	
	UV Technology Supplemental	1
	Procedures	-
	Does it work — Kills microorganisms left behind	-
	after surface disinfection — 3-4 log kills — Expensive (\$90-\$130k)	
	Drypensive (\$90-\$150k) Ongoing maintenance cost Utilize post_terminal cleaning	-
	— Data has shown to decrease HAI's	-
		_
	UV Technology Myths	
	Clarification Points - Doesn't replace surface cleaning & disinfection	
	 Rooms must be cleaned first to remove bioburden It does not kill everything 	
	 Distance of light impacts effectiveness 	
	 Increased time required to kill C.diff spores Does not reduce labor cost 	
		7

	New Technology	3
17	UV Disinfecting Device - Kills airborne contaminants 24 hours a day - Compatible with HVAC systems - Surgery, ICU, Isolations, ER - *Recent study showed statistically significant decrease in fungal and bacterial viable air particles (62% -78%) in an inpatient Pharmacy	
"Associated Perfessionalies Methor-Control and Egyletendi Control: Addininated July 2015	Published by Elfevier for. American Journal of Intection New Technology Advantages & Disadvantages	





Wrapping it up

We have some work to do

Combination of product, technology & practice results in proper disinfection and reduction of patient risks

Our ultimate goal is zero HAIs

