Infection Prevention and

- Environmental Service Department -



Teaming up Against Health Care Associated Infections (HAI)

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Objectives

- Describe EVS Education Programs
- Collaboration with EVS and Clinicians
- EVS role in preventing HAIs



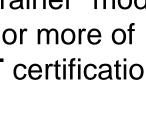
Plan and Commitment

- Implemented Best Practices
 - AHA and AHE C.H.E.S.T Program
- Education and Certification
 - Simulation Room
- Enhancement to Cleaning/Disinfection
 - Implemented UV Technology
- Monitor effectiveness of cleaning/disinfecting

- ATP testing
- Collaborations with IP and Clinicians

About CHEST

- The Certified Healthcare Environmental Services Technician (CHEST) program offers a new certification for Environmental Services frontline workers.
- It is a comprehensive, healthcare specific, **best practice** referenced training program for supervisors and the frontline staff
- CHEST is built on an innovative "Train-the-Trainer" model. Healthcare facilities can choose to train one or more of their staff through AHE to deliver the **CHEST** certification program directly in their hospitals.





Train the Trainer Model:





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M-Ts teach Trainers (T-CHEST) through a 3 day/24 hour AHE CHEST training program

AHE identified

(SMEs)



SMEs train Master Trainers (M-Ts)

T-CHEST then go back to their facility to train their frontline environmental services staff using AHE's certification materials.





Frontline environmental service staff become certified after passing a written exam.



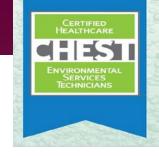
CERTIFIED HEALTHCARE

Environmentai SERVICES TECHNICIANS

Why CHEST?

- Achieve quality outcomes
 - ✓ Reduce HAIs
 - ✓ Higher HCAHPS rating
 - ✓ Improve medical reimbursements
- CHEST program validates competency of Environmental Services Technicians
- Technicians not only learn the proper way to perform their duties, they also learn <u>"why"</u> they perform it.





CHEST Training Methods:

Utilizes a variety of media:

- Video
- PowerPoint presentations
- Class activities and participation:
 - Study guides
 - Q & A / Chapter reviews
 - Real-world scenarios and examples
 - Games

All designed to help engage participants, help them retain information, improve on-the-job performance and heighten awareness.





Program/Certification Aspects:

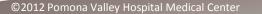
- The program covers all aspects of a frontline worker's typical tasks and accountabilities.
- Environmental Service Technicians must complete the required training hours.
- Environmental services technicians <u>must</u> pass a written assessment (Exam) to earn the CHEST title.





PVHMC Plan and Phased Approach

- 1. First Phase:
 - ✓ EVS Management T-CHEST, certified Trainers
- 2. Second Phase:
 - ✓ EVS Leads
- 3. Third Phase:
 - ✓ All Relief Leads
- 4. Final Phase:
 - ✓ Key EVS Associates
 - ✓ Continued Education (CEU's)





CHEST Program Sections:

- Infection Prevention
- Cleaning and Disinfection of all areas
- Environmental Services Equipment and Supplies
- Working Safely and Responsibly
- Basic Floor Care and Maintenance
- Environmental Monitoring and Quality Control
- Waste Removal
- Linen/Laundry Handling
- Multi-cultural Differences/Ethical Decision-Making
- Effective Communication and the Patient Experience of Care





Program Components:

The program covers seven domains.

CONTENT

- 20% Cleaning and Disinfection
- 10% Waste Handling
- 5% Floor Care
- 10% Linen Handling
- 20% Infection Prevention
- 15% Safety
- 20% Communication

Domains are taught in 10 modules.

MODULES

Infection Prevention and Control	4.0 hours
Assignments with Supervisor and Other Staff	1.5 hours
Cart Set-up and Handling Chemicals	2.5 hours
Occupied Room #1	2.0 hours
Unoccupied Discharge or Transfer Room	1.5 hours
Isolation Room	2.0 hours
Occupied Patient Room #2	1.75 hours
Common Area	2.0 hours
Specialty Areas, Uncommon Situations	2.0 hours
Wrap up and Review	2.0 hours
Additional Practice	1.5 - 2 hours



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Certified Healthcare Environmental Services Technician

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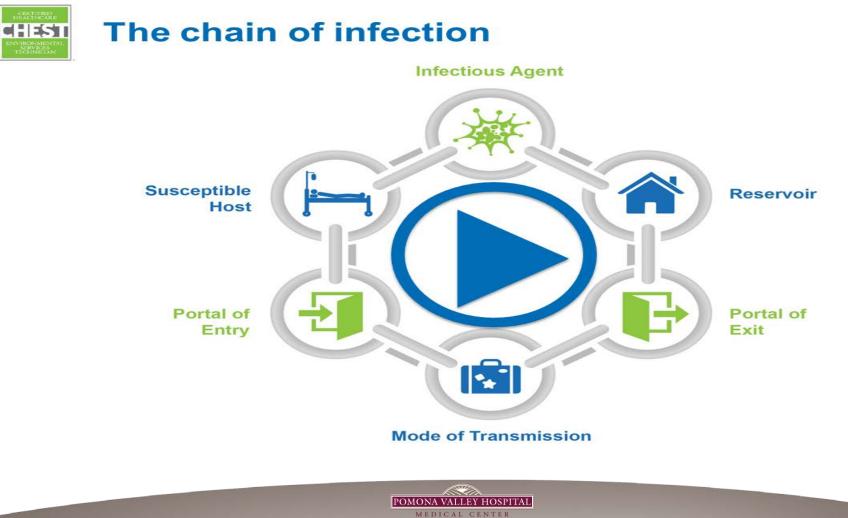
Program Focus: Infection Prevention & Control

- 1. Chain of infection/breaking chain
 - 6 links
- 2. Behaviors to control/prevent infection
 - Know pathogen
 - Proper cleaning/chemical/tool/ disinfection process-dwell time
 - Proper PPE
 - Sneeze/Cough etiquette
 - Hand Hygiene
- 3. Cleaning vs. Disinfecting
 - Disinfection classifications

- 4. Standardized cleaning process:
 - Clean clock/counterclock
 - Clean to dirty
 - Clean top to bottom
 - Unidirectional wiping
- 5. PPEs:
 - Donning & Doffing
- 6. Standard precautions
- 7. Transmission based precautions









Cleaning vs. disinfecting

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Cleaning

- The removal of material like dust, soil, blood, and bodily fluid.
- Physically removes rather than kills microorganisms. Accomplished with water, detergents, and mechanical action.
- Always essential prior to disinfection or sterilization.
- A surface that has not been cleaned effectively cannot be properly disinfected or sterilized.

Disinfecting

- The inactivation of pathogens.
- Usually involves chemicals, heat, or ultraviolet light.
- Sterilization destroys microbial life including bacteria, viruses, spores, and fungi and is not performed by environmental services.
- The most common disinfectants used are quaternary ammonium compound products, hydrogen peroxide-based products, and sodium hypochlorite (bleach).

Certified Healthcare Environmental Services Technician



Putting on PPE

0 6 000

Certified Healthcare Environmental Services Technician





Taking off PPE

Rub 000

Certified Healthcare Environmental Services Technician

Benefits:

Frontline Environmental Services Staff

Increased professionalism Engaged environmental services staff Improved Department morale and respect

Department/Facility

Improved interdepartmental communication Earned credential recognized by the American Hospital Association Ability to perform and compete at the highest level for environmental services jobs

Patients

Greater satisfaction Better experience of care Improved outcomes





In Summary:

- Healthcare Environmental Services Technicians are an **instrumental** part of the patient care team.
- Meticulously trained frontline workers in healthcare are critical to positive outcomes.
- CHEST program incorporates a systematic process for cleaning practices.
- Certification empowers frontline staff Certified Staff are proud and confident.
 - ✤ 1300 certified in the U.S.
 - ✤ > 90 certified at PVHMC







Enhancement to Terminal Disinfection:

Added UV disinfecting technology

** In addition to routine discharge cleaning/disinfecting**

- Effective against C. difficile spores
 - All ICU rooms
 - All isolation rooms



Measuring Effectiveness

- ATP Testing
 - ✓ Patient care areas
 - ✓ Public areas and restrooms







Measuring Effectiveness

ATP testing of HTS	1:	st Qtr 201	17	2 nd Qtr 2017		3 rd Qtr 2017			4 th Qtr 2017			YTD		
Results	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TID	
Goal: ≥ 90%	97.1%	97.9%	97.5%	96.3%	95.5%	96.4%	95.2%	93.9%	97.6%	97.8%	96.4%	98.4%	96.8%	
Goal. 2 9070													50.070	
Numerator	1291	1600	2230	1672	1757	1914	475	1514	1426	2404	1830	2224	20337	
Denominator	1330	1635	2288	1737	1840	1986	499	1612	1461	2458	1899	2261	21006	
situation? Goal met or not met? Common causes of	goal with t were over	he highest bed table a /transfer cl	quarterly p and blood p ean a total	bass rate o pressure cu of 599 for	f ATP testi iff. These	ng for 2018 were also l	3. Decemb high fails in	er analyse Oct. and I	s showed Nov. EVS ι	that the top used the U	o 2 items th V light in is	nat failed th olation roo tion rooms,	ms post	



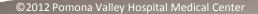
• Module 1

Module 1: Basic Principles of Infection Control for EVS Technicians

This module defines what an infection is, reviews the chain of infection, and discusses how important environmental cleaning is to break the chain of infection.

Tools and Resources In English and Spanish

- · A ready-to-use presentation for trainers English | Spanish
- · Learners' version in PowerPoint format English | Spanish
- · Presentation facilitator notes and guidelines for trainers, for use in live sessions English
- Narrated audio version of the presentation English | Spanish
- · Flashcards English | Spanish
- · Infographics English | Spanish
- · Checklists for discharge and daily cleaning inspection processes
 - Discharge Inspection English | Spanish
 - Daily Cleaning Inspection English | Spanish





• Module 2

Module 2: PPE and EVS: Keeping EVS Team Members, Patients, and Caregivers Safe

This module provides information on what basic personal protective equipment (PPE) is, how to don and doff it, and when and how to use it during routine EVS activities.

Tools and Resources In English and Spanish

- · A ready-to-use presentation in PowerPoint format English | Spanish
- Narrated audio version of the presentation English | Spanish
- · Flashcards English | Spanish
- · Infographics depicting "Do's and Don'ts" of glove use English | Spanish
- Checklist for donning and doffing PPE and fit-checking respirator English | Spanish



• Module 3

Module 3: Chemical Safety for EVS

This module covers safety practices EVS personnel should follow to protect themselves, other staff, patients, and visitors when using chemical disinfectants.

Tools and Resources In English and Spanish

- A ready-to-use presentation in PowerPoint format English | Spanish
- · Narrated audio version of the presentation English | Spanish
- · Flashcards English | Spanish
- · Short PowerPoint on hazard symbols English | Spanish
- Checklist for setting up an EVS cart to support best safety practices English | Spanish



• Module 4

Module 4: Surface Cleaning and Disinfection Procedures and Techniques in EVS

This module covers best practices for cleaning and low-level disinfection of environmental surfaces in occupied patients rooms and at the time of patient discharge or transfer, as well as how to evaluate adequate cleaning.

Tools and Resources In English and Spanish

- · A ready-to-use presentation in PowerPoint format English | Spanish
- Narrated audio version of the presentation English | Spanish
- Flashcards English | Spanish
- · Infographic on cleaning occupied rooms English | Spanish
- · Checklists for monitoring room cleanliness using ATP technology and UV light inspection
 - ATP Technology English | Spanish
 - UV Light Inspection English | Spanish



Sample Monitoring Tool

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Date:	
Unit:	
Room Number:	
Initials of ES staff (optional): ²	

Evaluate the following priority sites for each patient room: High-touch Room Surfaces Cleaned Not Cleaned Not Present in Room Bed rails / controls Trav table IV pole (grab area) Call box / button Telephone Bedside table handle Chair Room sink Room light switch Room inner door knob Bathroom inner door knob / plate Bathroom light switch Bathroom handrails by toilet Bathroom sink Toilet seat Toilet flush handle Toilet bedpan cleaner

Evaluate the following additional sites if these equipment are present in the room:

High-touch Room Surfaces ³	Cleaned	Not Cleaned	Not Present in Room
IV pump control			
Multi-module monitor controls			
Multi-module monitor touch screen			
Multi-module monitor cables			
Ventilator control panel			

Mark the monitoring method used: Direct observation

Direct	t o	bse	$\mathbf{r}_{\mathbf{v}}$
Swab	cu	ltu	res

| Fluorescent gel | ATP system

Agar slide cultures

CDC

¹Selection of detergents and disinfectants should be according to institutional policies and procedures ²Hospitals may choose to include identifiers of individual environmental services staff for feedback purposes.

³Sites most frequently contaminated and touched by patients and/or healthcare workers

National Center for Emerging and Zoonotic Infectious Diseases

https://www.cdc.gov/hai/pdfs/toolkits/environmental-cleaning-checklist-10-6-2010.pdf



Collaborations with IP and Clinicians:

- IP & EVS Task Force
 - Strategize and work closely to implement HAI reduction plans.
 - Cleaning and Disinfectant Product Evaluation
 - Updates EVS policies
 - Participate in Hand Hygiene Taskforce
 - Cubicle curtain cleaning initiatives.
 - Infection Prevention advocate for future project planning.

Collaborations with IP and Clinicians:

- ✓ Revise Policies
- ✓ Develop & Implement updated standardized processes e.g ARON
- ✓ Training & Education
- ✓ Future consideration to implement
 UV light technology in OR Suites



Guidelines for Cleaning & Disinfecting Procedure Areas

WE CLEAN & DISINFECT TO PROTECT

This section describes the OR Quick Guide Cleaning Procedures, which is the standard method for cleaning all Surgical and Procedural areas zones (Between Case Cleaning, Terminal Cleaning, Total Cleaning and Sub-Sterile Room Cleaning).

Methodology to any cleaning proces

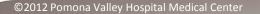
a) Clean block or counterblockwise (ensures items do not get missed

b) Clean to dirty (reduces change of spreading contaminants & increases efficiency).

Ciean from top to bottom (Dirodust fails from righ surfaces onto lower surfaces). When in one direction called unidirectional wining its provent wining and re-contaminating areas just clean & ensures solution is and

e suface).

Unrectricted Are	a Semi-Rectr	loted Area	Res	trioted Area	Operating or Procedu Room	Coperating or Procedure Room
Street clothes an ermitted in this a a: Offices, staff sunge, & recover	ar- mitted: Associa on gowns and	ates must put hair/facial	mitted: As on gown,	thes are <u>not</u> per- sociates must put all hair including must be covered	Between Cases (after the patient has i the area)	eft Terminal Cleaning
room (PACU) loc ed before the red line on the floor.	at- nal corridors, s	sub-sterile in Main OR uites), clean rooms, the areas behind ne, but <u>not</u>	and mask sterile sup ment are j used: OR:	s are worn if open piles and equip- present or being s or Procedure	1. Perform hand hygiene 2. Don personal protective equipment 3. Collect linen 4. Remove solied linen 5. Remove large debris fro floor	Terminal Cleaning includes everything performed with between cases cleaning fror column 1, to include the following: 1. All floors-wet vacuum or 1. All floors-wet vacuum or
Between Case Cleaning	Daily Terminal Cleanings	Weekly Cleani		Sub-Sterlie Room Cleaning	 Remove trash Clean and disinfect Anesthesia cart & equi 	2. Storage cabinets, supply carts, and furniture
surgical p procedure, a a safe, clean s environment te will be re- d established by c between case, h tumover p cleanings. d	The surgical rocedure rooms and the sturgical ulte should be eminally cleaned ally after last ase or every 24 ours and shall be roperty iooumented in leaning log.	es l'applicab addition to te cleanings ani property doo in cleaning i "Floor scrub damp-duster	floors and ing surfac- le in minal d shall be ourmented og. ber and extension extension extension extension extension include loom ht weekly total	Cleanings will be done daily and throughout the day as needed. Associates assigned to total cleaning the surgical sulfes are also responsible for applying the same total cleaning procedures to the adjoining sub-sterile rooms.	ment (IV Poles & pumy "asso, Inside cart) b. Anesthese Machine (c. Patient Monitors d. OR beds e. Reusable table straps f. Bed attachments g. Positioning devices h. Patient transfer device l. Overhead procedure II j. Tables Mayo stands K. Mobile & These equipment i. Saction Equipment	4. Door handles and push plates 5. Telephones & mobile communications device: 6. Computer accessories 7. Chars, stools, and step stools 8. Trash linen receptacies ** Please refer to be Vieekit total Cleaning** eref
Dpenating or Pro 1.) Remov 2.) Damp (a.Over b.All m L.Fi I. E II. E	Ilict — Befors First coordure Room (f re unnecessary eq dust from top to bo thead lights eachable flat surfla umiture Booms Equipment Countertops	USER) ulpment. ottom:	e Day		Neptune L. Imagin monitors : I. Radiology equipm (user) II. Electrosurgical un (user) N. Robots (user) V. Lasers (user) 8. Fioors and walls if solet potentially soled (splast splater or spray) 9. Dof PPE (both) 10. Perform Mand Trademe	nt ts lor





Sample Policy

	Appendix A		Ionitoring Tool
EQUIPMENT	FREQUENCY		RESPONSIBILITY
Patient Care Room Furniture (Includes but is not limited to)			
Bed - All	After discharge		EVS
Bed - Rails/footboards	Daily when in use		EVS
Bed - Specialty -owned by PVHMC	After each use		EVS
Bed - Specialty (KCI and Magnum-owned by PVHMC)	Daily when in use/After eac	h use	Cleaned by vendor through Storage and Distribution
Crib	Daily when in use/+After ea	ich use	Occupied - User Discharge - EVS
Bassinet	Daily when in use/ After each use		Occupied - User Discharge - EVS
Gurney	After each use		Occupied - User Discharge - EVS
Overbed Table	Daily when in use/After each use		Occupied - User Discharge - EVS
Bedside Table/Cabinet	Daily		EVS
Chair(s)	Daily		EVS
Telephone/Call Light/TV/Door Knobs	Daily		EVS
Patient Care Cubicles (ED/PACU)			
Bed	After each use		Occupied - User
Gurney	After each use		Occupied - User
Baby Warmer	After each use		Occupied - User
Bassinet	After each use		Occupied - User
Patient Care Cubicles (NICU)			- · · ·
. ,	1		Occupied - User
Isolette	Daily when in use/After eac	h use	Discharge - NICU Storeroom
			Occupied - User
Baby Warmer	Daily when in use/After eac	n use	Discharge - NICU Storeroom
Bassinet	Daily when in use/After eac	h use	Occupied - User Discharge - NICU Storeroom
Auto Syringe Pumps	Daily when in use/After each use		Occupied - User Discharge - EVS
Bed - Occupied	Daily and as needed		Occupied - User
Bedside Commodes (Portable)	At time of discharge		EVS
Bedside Commodes (Portable) - Seat	After each use		Nursing
Blanket Warmer - Inside	Daily		User
Blanket Warmer - Outside	Daily		EVS
Blood Pressure Cuffs/Meters	After each use		User
BP Machine (Portable)	After each use		Nursing
BP Machine (Portable) - Pole/wheels	Weekly		EVS

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In Closing:

- Healthcare Environmental Services Technicians are a vital part of the healthcare team and their work impacts many components of the daily operations of a facility including infection prevention, patient satisfaction, improved outcomes, and reimbursement.
- With so much at stake for healthcare facilities, training and certifying Environmental Services Technicians in critical areas of competency needs to be an essential aspect of the facility's training program.



Questions?



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