

Evaluating Environmental Cleaning



- Objective Methods for Evaluating Environmental Hygiene
 - · Direct Practice Observation
 - Swab Cultures
 - · Agar Slide Cultures
 - · Fluorescent Markers
 - · ATP Bioluminesence

No matter which approach is chosen by the hospital, it is important that the monitoring be performed by hospital epidemiologists, infection preventionists or their designees who are not part of the actual ES cleaning program. Such an approach assures the validity of the information collected and provides an opportunity for the Infection Control to independently champion the value of well performed disinfection cleaning.

Source: CDC Toolkit Evaluating Environmental Cleaning

High Touch Areas in Patient Rooms



CDC Environmental Checklist for Monitoring Terminal Cleaning

High-touch Room Surfaces ³	Cleaned	Not Cleaned	Not Present in Room
Bed rails / controls			
Tray 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			

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			

Instructions for Evaluating the Cleaning of Objects in the Patient Zone



- Bed rails If the bed rail incorporates bed controls, evaluate the control area (on the patient side) slightly away from
 the control buttons. If the rails do not contain the new style control areas, the rails are best evaluated on the smooth
 inner surface in an area easily accessible to cleaning.
- Tray table The top of the tray table should be evaluated in one corner
- Call boxes Evaluation is done on the back mid portion of the call box in an area easily accessible to cleaning. If tiny call buttons are used, mark the separate TV control box instead if feasible.
- Telephones Evaluation is best done on the back side of the hand-held portion of the telephone near the top of the
 phone, away from the end that is attached to the phone wire.
- Bedside tables The drawer pull is evaluated
- Patient chair Evaluation is done in the center of the seat of the chair close to the rear of the cushion. If the cushion is covered in textured fabric, evaluate the arm of the chair.
- IV pole For hanging IV poles, the shaft of the pole just above the textured grab area should be evaluated. For standing IV poles, the chest-high portion where hand contact is most common should be evaluated.

Toilet Area

- Sinks If using a targeting system, the best place to mark the sink rim is towards the rear in order to avoid water splash interference with evaluation of the target. If direct evaluation is used, the faucet handle should be evaluated.
- Bathroom and patient room light switches When using a targeting method, a target is placed on the plate portion
 of the light switch. When using a direct evaluation system, the switch or plate should be evaluated because of its
 relatively large surface area.



Bed Control



Phone and Call Buttor

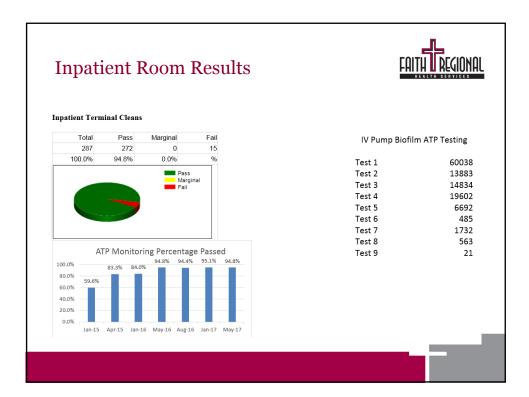


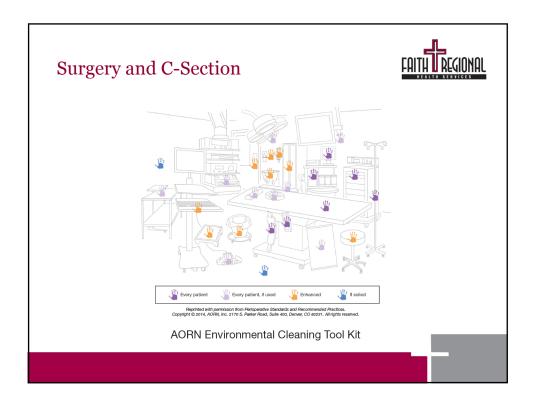
What is ATP Monitoring



- ATP monitoring is a rapid testing method used to quickly assess the cleanliness of surfaces. Adenosine Triphosphate (ATP) is present in all organic material and is the universal unit of energy used in all living cells.
- ATP swabs use bioluminescence to detect residual ATP as an indicator of surface cleanliness. The presence of ATP on a surface indicates improper cleaning and the presence of contamination, including food residue, allergens and/or bacteria. This implies a potential for the surface to harbor and support bacterial growth.

Source: Hygiena

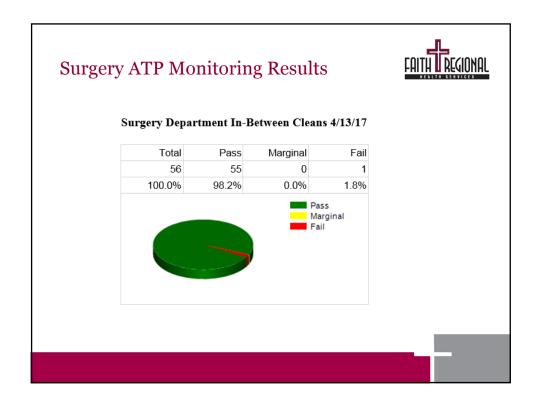




Surgery High Touch Areas



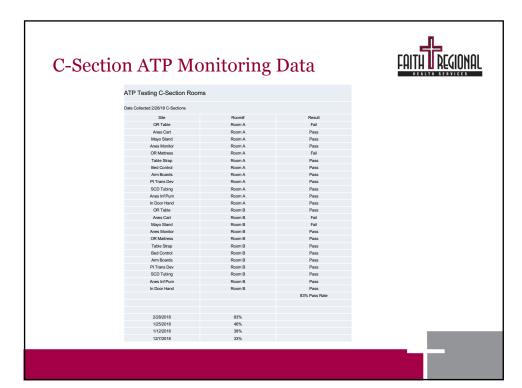
- Anesthesia Monitor
- Anesthesia Cart
- OR Mattress
- OR Table
- Table Strap
- Bed Control
- Arm Boards
- · Patient Transfer Device
- SCD Tubing
- May Stand
- Anesthesia Infusion Pump
- · Inside Door Handle



C-Section High Touch Areas



- OR Table
- Anesthesia Cart
- Mayo Stand
- · Anesthesia Monitor
- · OR Mattress
- Table Strap
- Bed Control
- Arm Boards
- · Patient Transfer Device
- Infant Warmer



Cause of Biofilm Investigation



- · Tested ES & OR chemical dispensers
- · Transitioned to one chemical
- · Retested many times
- Gap Analysis
- Observed processes with OR Staff
- Observed processes with ES Staff
- · Interviewed OB staff on processes
- · Tested cleaners and disinfectants
 - Vinegar Bleach WipesDawn Super Sani Wipes
 - · Enzymatic Wipes

Lessons Learned



- Develop a policy for staff to regularly test disinfectant
- ATP monitoring showed a biofilm that fluorescent marker would not have
- Both cleaning and disinfecting are important to prevent biofilm
- Replace equipment when integrity is compromised and surfaces are no longer cleanable