3.12 Environmental Cleaning and Disinfection and Equipment Cleaning and Disinfection in Rooms Where Patients with an Emerging Infectious Disease (EID) are Hospitalized or Have Been Hospitalized or Treated

Purpose

To remove secretions and excretions containing the microorganism of an EID from environmental surfaces and equipment surfaces where patients receive healthcare to prevent the transmission of the microorganism from patient to patient, from patients to healthcare workers (HCWs) and from patients to visitors.

Audience

HCWs including all personnel who work in patient care areas and personnel who work for Environmental Services (ES) and Clinical Equipment Services (CES).

Policy Statement:

I. Environmental and equipment decontamination

A. Environmental Services personnel and CES personnel will be selected by the ES and CES administrations, respectively and be trained for cleaning and disinfecting EID patient rooms/units and in cleaning and disinfecting equipment attached to patients or used for patient care.

B. ES and CES personnel will use All Barrier Precautions (ABP) when cleaning in rooms/units where surfaces may be contaminated with the microorganism that causes the EID.

1. **N-95 mask for SARS or avian influenza or a surgical mask for swine influenza**
2. Goggles
3. Gown
4. Gloves

C. ES and CES personnel will be trained in donning and removing Personal Protective Equipment (PPE).

D. Cleaning and disinfection in rooms occupied by EID patients

1. Cleaning will be done using an EPA – registered hospital detergent-disinfectant.
2. Cleaning rooms on medical/surgical nursing units

a. Cleaning of environmental surfaces will be done by ES and will be guided by a list of sites on a form that will be completed for each room cleaned. Sites cleaned will be those in the environment excluding surfaces of devices and equipment attached to the patient. All the sites cleaned will be checked off on the form and signed by the employee (See Appendix A).

b. Forms will be checked, approved and signed by the supervisor.

c. Clinical Equipment Services (CES) personnel will clean and decontaminate surfaces of devices and equipment attached to patients.

d. These CES personnel will be specially trained in this task and will use a check off list for each item to be decontaminated. The form with the check off list will be reviewed, approved and signed by their supervisor (Appendix B).

3. Cleaning rooms in intensive care units (ICUs)

a. Cleaning in ICUs by ES will be guided by a list of sites on a form. Sites cleaned will be those in the environment excluding surfaces of devices and equipment attached to the patient. Sites cleaned will be checked off on the form and signed by the employee (See Appendix C).

b. Forms will be checked, approved and signed by the supervisor.

c. CES personnel will clean and decontaminate surfaces of devices and equipment attached to patients.

d. These personnel will use a check off list for each item to be decontaminated. The form with the check off list will be reviewed, approved and signed by their supervisor (See Appendix D).

4. Cleaning patient rooms and procedure rooms (e.g. bronchoscopy suite) after performance of high risk aerosolization procedures

a. ES will be called to decontaminate environmental surfaces in rooms after a high risk procedure has been performed.

b. All Barrier Precautions (ABP) will be followed as for cleaning of patient rooms.

c. All horizontal surfaces and other surfaces in the room that may have become contaminated will be cleaned and disinfected.

E. Terminal cleaning of patient rooms

1. ABP will be used by personnel doing terminal cleaning.

a. N-95 mask for SARS and avian influenza or a surgical mask for swine influenza
b. Goggles
c. Gown
d. Gloves

2. All surfaces in the room should be cleaned with an EPA-registered detergent disinfectant following the list of sites on a check off form

(Appendix E).

a. Mattresses and headboards should be wiped down with an EPA-approved hospital disinfectant.
b. For rooms with privacy curtains, the curtains should be removed, placed in a plastic bag in the room and double bagged into a laundry bag with the assistance of another member of the ES staff standing at the door outside the room. The person outside the door should wear gloves. After completing the task this person should remove gloves, wash hands with an antimicrobial soap and water or apply an alcohol rub to their hands.
c. No cleaning of window curtains, ceiling or walls is necessary unless visibly soiled.

3. The check off form should be signed by the employee and by the supervisor.

F. Cleaning and removal of equipment from patient rooms after discharge of patients

1. Wearing ABP PPE including 2 gowns and 2 pair of gloves, CES personnel will clean and disinfect the surfaces of all clinical equipment to be removed from the room.
2. After cleaning and disinfection, the first pair of gloves will be removed and the equipment to be taken to CES will be pushed to the door of the room.
3. The second pair of gloves, the goggles and the top gown will be removed.
4. The equipment will be pushed from the room.
5. Hands will be washed with an antimicrobial soap and water or an alcohol hand rub will be applied.
6. The N-95 or surgical mask will then be removed.
7. Hands will again be washed or an alcohol hand rub applied.
8. A new set of gloves will be donned.
9. Equipment will then be taken to CES.

II. Cleaning and Decontamination in the Negative Pressure Zone in the Emergency Department (ED)

A. ES administration will select two persons for cleaning and disinfection of examination rooms in the negative pressure zone in the ED.

B. These ES personnel will be trained to work safely and effectively in the negative pressure zone.

C. Personnel working in the negative pressure zone will wear All Barrier Precautions (ABP) personal protective equipment (PPE).
   1. **N-95 mask for SARS or avian influenza or a surgical mask for swine influenza**
   2. Goggles
   3. Gown
   4. Gloves

D. A cleaning cart will be dedicated to the area. It will be kept in the hall.

E. Cleaning Protocol
   1. Cleaning materials will be taken from the cart into the room to be cleaned.
   2. The door will be kept closed while the room is being cleaned.
   3. The surfaces to be cleaned are listed on Appendix F. The surfaces cleaned must be checked off on the form and the form signed by the person doing the cleaning and by the supervisor.
   4. When cleaning of a room has been completed, the door will be closed and the cleaning materials returned to the carts.
   5. ES personnel must remain in the hall when waiting to clean the next vacant room. They must not enter the nursing station or other areas.
   6. ES personnel need only to change gloves between rooms. Gloves should be removed so as to avoid touching the outside of the gloves.
   7. Hands should be washed with an antimicrobial soap and water or an alcohol rub applied to the hands prior to donning a new set of gloves.

Appendix A
Emerging Infectious Diseases
Environmental Services
Checklist for Daily Cleaning of Patient Rooms

Medical/Surgical areas (Non-ICU)

Surface to be cleaned	= Complete or NA = Not Applicable	
1. Bedrails, bed frame		
2. Bedside tables		
3. Over bed tables		
4. TV Controller		
5. Call button		
6. Telephone		
7. Lavatory surfaces		
a. Safety – pull up bars		
b. Faucets		
c. Commodes		
d. Shower		
8. Fan(s)		
9. Sharps containers		
10. Waste receptacles		
11. Headboard		
12. Footboard		
13. Door/door knobs		
14. Light Switches		
15. Soiled areas of walls & windows		
16. Television		
17. Exterior surfaces of drawers & closets		
18. Over-bed light		
19. Laundry hamper		
20. Floors		
21. Shelves		

Employee Signature: _____ Date: _____

Supervisor Signature: _____ Date: _____

Appendix B

Emerging Infectious Diseases
Clinical Equipment Services
Checklist for Daily Cleaning of Patient Rooms

Medical/Surgical Rooms (Non – ICU)

Surface to be cleaned	= Complete or NA = Not Applicable
1. IV pole and pump	○
2. IV tubing	○
3. Suction devices and tubing	○
4. Foley tubing and collection bag	○
5. Telemetry equipment	○
6. Orthopedic devices attached to the patient	○
7. Neurosurgery devices attached to the patient	○
8. Waste receptacles	○

Employee Signature: _____ Date: _____

Supervisor Signature: _____ Date: _____

Appendix C
Emerging Infectious Diseases
Environmental Services Checklist for Daily Cleaning of Patient Rooms
ICUs

Surface to be cleaned	= Complete or NA = Not Applicable
1. Waste receptacles	○
2. Soiled areas on walls and windows	○
3. Bedside table	○
4. Over bed table	○
5. Bedrails, bed frame	○
6. Headboard	○
7. Footboard	○
8. Over bed light	○
9. Laundry Hamper	○
10. Doors/door handles	○
11. Lavatory a. Commode b. Safety bars c. Faucets d. Shower	 ○ ○ ○ ○
12. Fan(s)	○
13. Sharps Containers	○
14. Shelves	○
15. Telephone outside the room	○
16. Light Switches	○
17. Television	○
18. Floors	○
19. Exterior surfaces of drawers & closets	○
20. TV Controller	○
21. Code Call Button	○

Employee Signature: _____ Date: _____

Supervisor Signature: _____ Date: _____

Appendix D
Emerging Infectious Diseases
Clinical Equipment Services
Checklist for Daily Cleaning of Patient Rooms

ICUs

Surface to be cleaned	= Complete or NA = Not Applicable
1. IV pole and pump	○
2. IV tubing	○
3. Foley drainage tubing and bag	○
4. Pressure monitoring system	○
5. Ventilator and ventilator tubing	○
6. Monitor	○
7. Chest tubing and drainage bag	○
8. Abdominal drains and collection bags	○
9. Ventriculostomy tubing and collection bags	○
10. Monitor leads	○
11. Suction devices and collection containers	○

Employee Signature: _____ Date: _____

Supervisor Signature: _____ Date: _____

Appendix E

Emerging Infectious Diseases

Environmental Services Cleaning Checklist

Terminal Cleaning – All Rooms

Surface to be cleaned	= Complete or NA = Not Applicable
1. Chairs	○
2. Areas of soilage on walls and windows	○
3. Light switches	○
4. Over bed table including framework	○
5. Television	○
6. Pillow cover	○
7. Headboard of bed	○
8. Footboard of bed	○
9. Mattress cover	○
10. Bedrails	○
11. Bed frame	○
12. Casters on bed and over bed table	○
13. Telephone	○
14. Bedside Table	○
15. External surfaces of drawers and closets	○
16. Over bed light	○
17. Bathroom	○
a. Pull up bars	○
b. Commode	○
c. Shower	○
d. Faucets	○
18. Floors	○
19. Laundry hamper	○
20. Doors/door handles	○
21. Waste receptacles	○
22. Fan(s)	○
23. Sharps Container	○
24. Shelves	○
25. TV Controller	○
26. Code Call button	○

Employee Signature: _____ Date: _____

Supervisor Signature: _____ Date: _____

Appendix F
Emerging Infectious Diseases
Environmental Services Cleaning Checklist

Emergency Department

Surface to be cleaned	= Complete or NA = Not Applicable
1. Bedrails, bed frame	○
2. Examination tables	○
3. Desk	○
4. Sink	○
5. Sharps Container	○
6. Waste receptacles	○
7. Door	○
8. Floor	○
9. Soiled areas of walls	○

Employee Signature: _____ Date: _____

Supervisor Signature: _____ Date: _____