

Maintenance for Infection Prevention

Andrew Streifel, University of Minnesota

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Regulatory Resources to be Incorporated:
External Jurisdiction:
Includes all applicable building codes and:

- AIA Guidelines: 2006, AIA Guidelines for Design and Construction of Health Care Facilities. American Institute of Architects.
- CDC Guidelines for Environmental Infection Control
- MDH: Minnesota Department of Health also expects the facility to be aligned with current CDC and AIA standards.
- OSHA & NIOSH
- Association for the Advancement of Medical Instrumentation (AAMI)
- Association for Professionals in Infection Control and Epidemiology (APIC)
- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE): HVAC Design manual for Hospitals and Clinics
- Centers for Medicare and Medicaid Services (CMS)
- Health Care Resources Service Administration

Current Regulations and Guidelines

- Joint Commission on Accreditation of Healthcare Organizations
- Guidelines for the Design and Construction of Hospital and Health Care Facilities (mandated by state law)
- CDC -Guidelines on Environmental Infection Control
- State Licensure (in many states)
- HRSA - Healthcare Resource Services Administration
- NIOSH - Protecting Building Environments

The Joint Commission

- A Private Not-for-profit Organization
- Environment of Care Standards on Utilities Management EC.7.10
- Environment of Care Standards on Construction Risk Assessment EC8.30
- New in 2006, unannounced surveys
- Continued use of an engineering surveyor for all hospitals over 200 beds
- National Patient Safety Goal on Infection Control

The Joint Commission - EC.8.30

- Demolition, Construction, or Renovation
- Proactive Risk Assessment
- Identify hazards that could potentially compromise patient care
- Address impact on:
 - Air quality requirements
 - Infection control
 - Utility requirements
 - Noise and vibration
 - Emergency procedures

TJC-EC7.10

- Infection Control Systems
- Utilities
- Ventilation
- Plumbing
- Functionality

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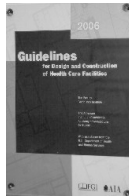
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AIA 2006 Guidelines for Design And Construction of Hospitals & Health Care Facilities

- Latest in a 60-year series of guidelines specific for design and construction of hospital and other health care facilities
 - Nursing Facilities; Outpatient Facilities
 - Rehabilitation Facilities; Psychiatric Hospitals
 - Mobile, Transportable, and Relocatable Units
 - Hospice Care; Assisted Living
 - Adult Day Care Facilities
 - Glossary Tables

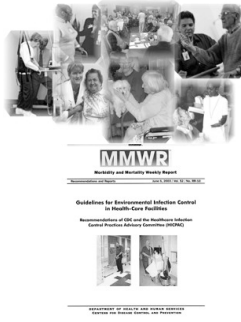


AIA 2006 Guidelines for Design and Construction of Hospital & Health Care Facilities

- Consensus document; developed by
 - Engineers, architects, clinicians
 - Representatives of professional organizations
 - e.g. AIA, ASHRAE, ASHE, APIC, JCAHO
 - 23 AHJs representatives [authorities having jurisdiction]
 - Dept Health and Human Services (HHS)
 - CDC and NIOSH
- Regulatory document
 - Over 40 states and local healthcare licensing agencies have adopted into their standards
 - JCAHO accreditation- references AIA
- 2006 version Infection Control Risk Mitigation Recommendation
 - 2010 comment period

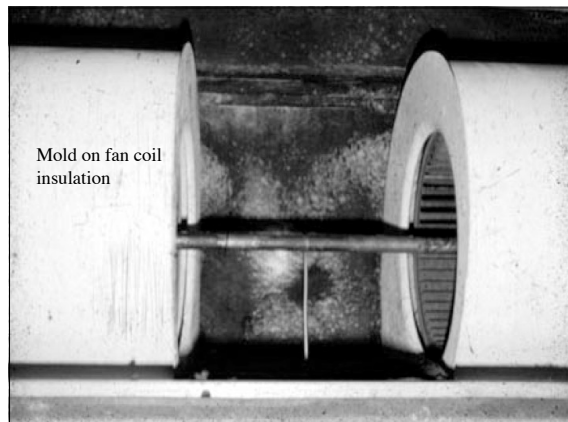
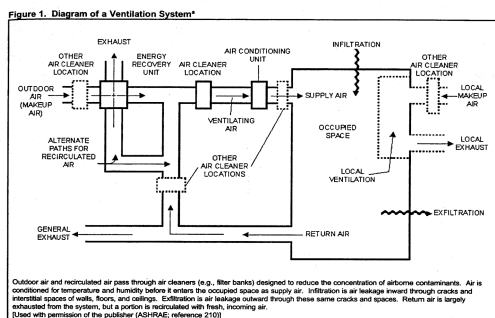
Guidelines for Environmental Infection Control in HCF

- Seven major areas covered:
 - Air
 - Water
 - Environmental Services
 - Environmental Sampling
 - Laundry and Bedding
 - Animals in Healthcare Facilities
 - Regulated Medical Waste
- MMWR 6-03 was partial document
- 249 pg. with >1400 citations
- Appendices A – F



Old fashioned way of isolating patients

Complex ventilation systems for healthcare facilities



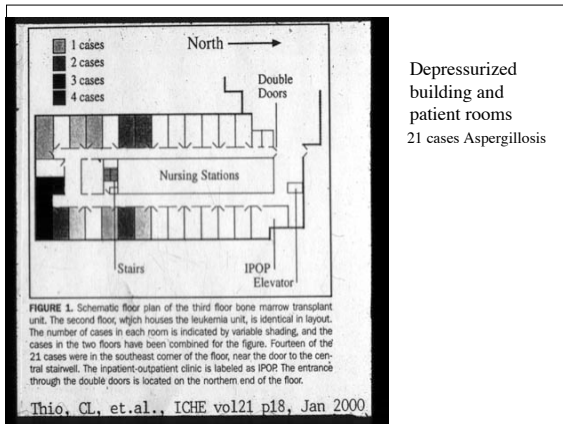
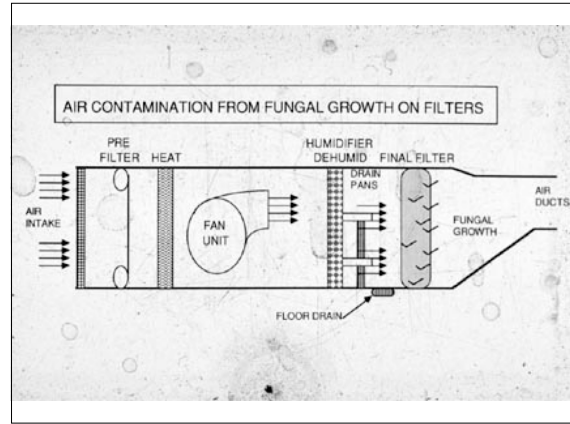
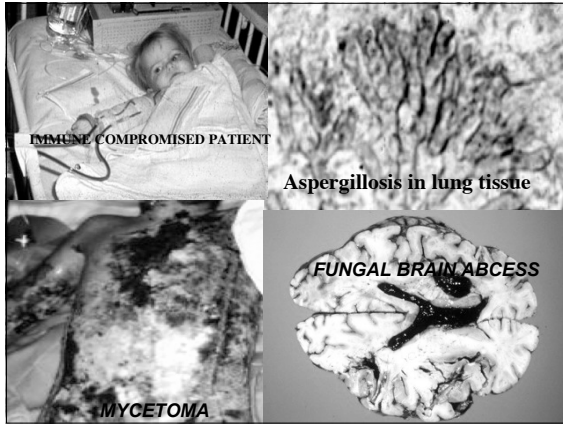
Mold on fan coil insulation

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- ### Summary of Outbreak Analysis
- Environmental disruption causes release of opportunistic microbes
 - Lack of adequate ventilation
 - Point source of microbial contamination
 - Minimal protective measures
 - Institution of protective measures reduces infection: construction management, masking, filtration, pressure control and procedural practice
 - Infection Control Risk Assessment is necessary for patient risk reduction

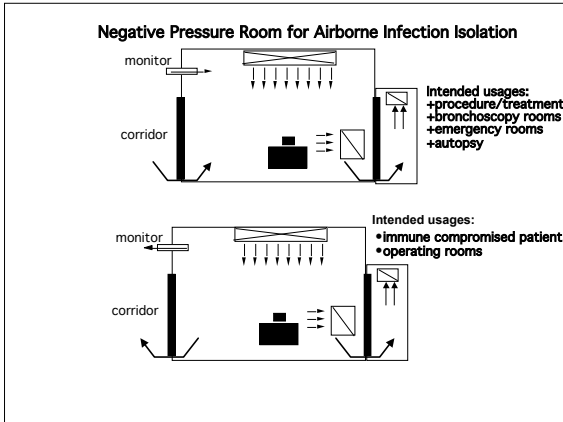
- ### Maintenance & Environmental Infection Control
- Air
 - Water
 - Hazardous items

- ### Healthcare Air Quality
- Fungi
 - Common with body temperature incubation
 - Bacteria
 - Human shed microbes
 - Virus
 - Embedded virus in sputum droplet nuclei
 - Particles
 - Surrogate real time measurement

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488 INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY September 2002

Editorial

In With the Good Air

Andrew J. Streifel, MPH

Validation of ventilation parameters:
 -air exchanges
 -pressure (airflow direction & intensity)
 -filtration

Verification of Special Ventilation Rooms

Commissioning Guidelines

Design Parameters	Airborne Infection	Protective Environment
•Air Changes per hour	>12	>12
•Filtration		
-supply	90% dust spot	99.97% @0.3um
-return	99.97% @0.3um or 100% exhaust	back through filter
-toilet	100% exhaust none	100% exhaust
•Supply vs exhaust offset	>125cfm	>125cfm
•Airflow direction	in	out
•Pressure differential	≥0.01" W.G.	≥0.01" W.G.
•Minimal room leakage	≤0.5sq.ft	≤0.5sq.ft.

Ventilation deficiencies can affect airflow direction

Flexible duct not properly installed caused condensation & mold

What is wrong with this picture??

Buildings age when the ventilation is turned on

Which duct moves more air?

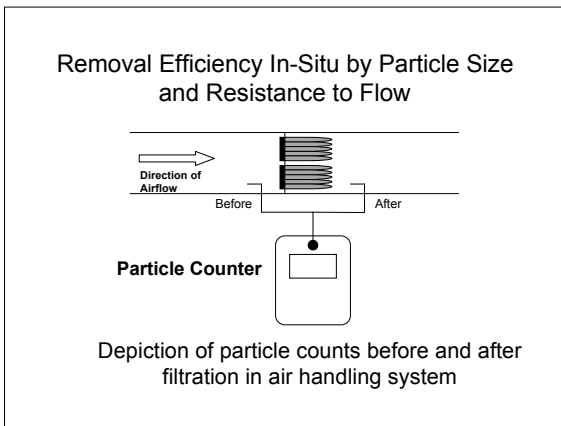
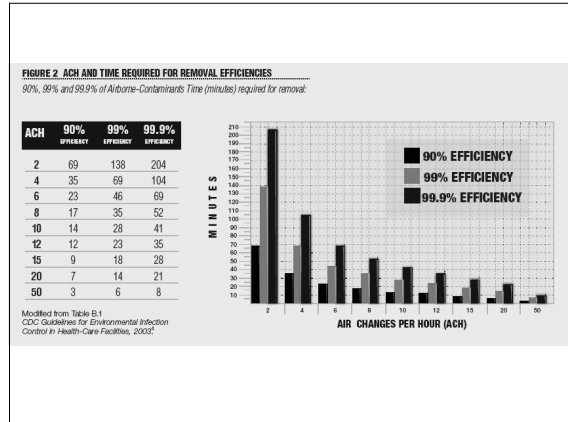
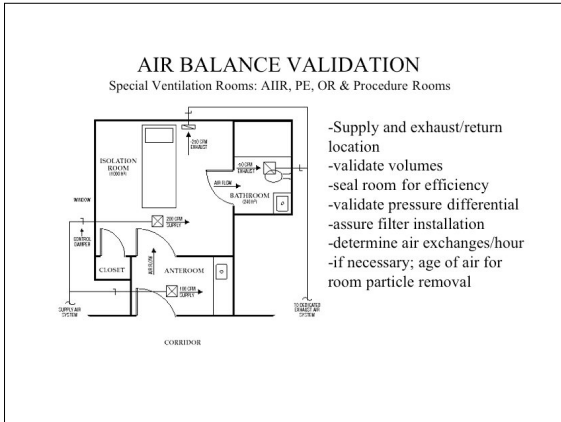
What ways do we have to monitor airflow and pressure?

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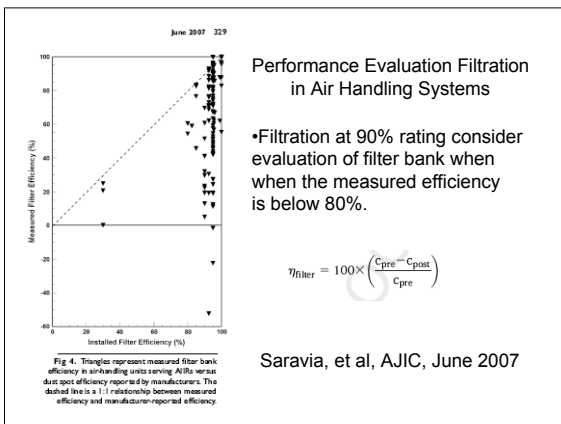
Examples of data interpretation for particle reduction in various filtered efficiencies:

Condensation PC* Outside PC	After filter PC	Percent reduction	
MERV** 12 filters	55000	11000	80
MERV 14 filters	55000	5500	90
MERV 16 filters	55000	50	99.97

Note Condensation Particle Counts Are Reported As Particles Per Cubic Centimeter.
*PC = particle counts
**MERV = minimum efficiency rating value (current ASHRAE rating system).

Optical PC* Outside PC	After filter PC	Percent reduction	
MERV** 12 filters	120000	24000	80
MERV 14 filters	120000	12000	90
MERV 16 filters	120000	36	99.97

Note Optical Particle Counts Are Report As Particles Per Cubic Foot.
* PC = particle counts
**MERV = minimum efficiency rating value (current ASHRAE rating system).



AIRR Maintenance Schedule

APPENDIX B

For each item, place an "X" in the appropriate box:
"Y" indicates "Yes, Room is in compliance"; "N" indicates "No, Room does not comply"; "NA" indicates "Not Applicable to this room"

DATE	ROOM	WINDOWS CLEAN/REAR	DOORS SELF-CLOSING OPERATIONAL	ALARMS ELECTRONIC FUNCTIONING	MECHANICAL SERVICE TAGS/WORK ORDER OPEN	PRESSURE READING* NONE/READ	ELECTRICAL	COMMENTS	
		Y	N	Y	N	NA	Y	NA	
		Y	N	Y	N	NA	Y	NA	
		Y	N	Y	N	NA	Y	NA	
		Y	N	Y	N	NA	Y	NA	
		Y	N	Y	N	NA	Y	NA	
		Y	N	Y	N	NA	Y	NA	
		Y	N	Y	N	NA	Y	NA	

Sample Log for Measuring Particle Counts

APPENDIX I

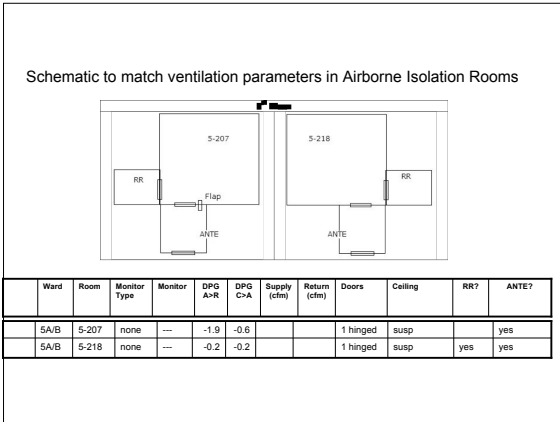
This log can be used for testing portable HEPA filters as well as whole building air filters.
*PC: MERV or FFC (MERV) refers to the total and high-pitch counts, respectively.
*Cleaning a HEPA filter (PC: FFC) refers to the particle count at the intake and FFC (MERV) refers to the particle count at the air supply of the AHU filter.
*When using a whole building air filtration system, PC (MERV) can refer to either the particle count inside or before the filter, and FFC (MERV) can refer to the particle count inside or after the filter.

DATE	FAN	PC INTAKE (MERV) (MERV)	PC SUPPLY (MERV) (MERV)	CONDUCTED SUBJECTIVE INSPECTION	ACTUAL SUBJECTIVE INSPECTION	COMMENTS
					PC: FFC + 10% PC: FFC	

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Airborne Infection Isolation Room Inventory UMMC-Fairview

Ward	Room	Monitor Type	Monitor	DPG A>R	DPG C>A	Supply (cfm)	Return (cfm)	Doors	Ceiling	RR?	ANTE?
2A	8										
3C	C-14										
4A	4-213									yes	yes
4B	4-227									yes	yes
4C	4-304	TSI		-0.1	-0.7 (A to C)			double hinged	susp. w/gaskets		
4C	4-305	TSI		-0.4	-0.3 (A to C)			1 sliding door + 1 hinged door	susp. w/gaskets		
4C	4-407										
4C	4-313										
4D	4-512	TSI		-0.3	-0.3	0		2 sliding doors + 1 hinged door	susp		
4E	4-501A	TSI		-3.1	-3.9 (A to C)			1 sliding door + 1 hinged door	susp		
5A/B	5-207	none	---	-1.9	-0.6			1 hinged	susp		yes
5A/B	5-219	none	---	-0.2	-0.2			1 hinged	susp	yes	yes
5A/B	5-219	none	---	-1.1	-0.5			1 hinged	susp	yes	yes
5A/B	5-230	none	---	1.8	-2.8			1 hinged	susp	yes	yes

APPENDIX C HVAC System Maintenance Schedule

Group 1 Periodic Maintenance Schedule for HVAC Systems

For each item, check "Y" if the appropriate task, "N" indicates "No task is completed", "N/A" indicates "No task can be completed"

FOR IDENTIFICATION: _____

INSPECTION DATE: _____

TASK	YES	NO	FOLLOW UP	COMMENTS
Inspect and clean exhaust grilles to prevent blockages & Larkov return ratio	Y	N	yes	
Visually inspect filter housing for holes and proper filter seal	Y	N	yes	
Clear outside air intake of debris	Y	N	yes	
Check return/exhaust dampers move freely	Y	N	yes	
Check filters for proper installation/spacers	Y	N	yes	
Check pressure and gauges	Y	N	yes	
Check return/OW lines have no leaks	Y	N	yes	
Check return/exhaust before use	Y	N	yes	
Check fan bearings/beliefs are lubricated	Y	N	yes	
Check handoff controls are in working order	Y	N	yes	
Check fan lights are in working order	Y	N	yes	
Check fan cleanliness	Y	N	yes	

Objective analysis of critical environments: pressure and particles

Validation of ventilation air from a BMT room

- Low particle counts
- High pressure

Validation of filters at the point of use

- Particle count scan
- Check filter installation

EXISTING CONDITIONS ASSURANCE

- ### Essential Surveillance Parameters
- Room air exchanges per hour**
 - each air exchange reduces particles about 66%
 - All and PE rooms at >12 ac/hr
 - Pressure control for All & PE rooms**
 - air velocity to create 0.01 inch w.g. (2.5 Pascals)
 - air velocity 0.001"wg=120 lfpm, 0.01"wg=400 lfpm, 0.1"wg= 1300 lfpm
 - design for >125 cfm offset for supply versus exhaust
 - minimal leakage < 0.5ft²
 - Filtration supply to PE rooms & exhaust from All rooms**
 - particle reduction to include both viable and nonviable particles
 - rank order reduction of particles from dirty to cleanest areas
 - non viable particles can be analyzed real time

Air Quality Surveillance

University of Minnesota Medical Center-Fairview

Airborne Fungi and Ventilation Parameters

Filtration local	cfu/m ³	Temp	% filtration
-U of MN 1962	706	35C	none
-U of MN 1982	82	35C	40
-U of MN 2002	3.6	35C	90

Infection Control Ventilation Parameters

- Air exchanges
- Pressure differential
- Airflow direction
- Particle management

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BIOSECURITY AND BIOTERRORISM BIODEFENSE STRATEGY, PRACTICE, AND SCIENCE
 Volume 4, Number 1, 2006
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Improving Performance of HVAC Systems to Reduce Exposure to Aerosolized Infectious Agents in Buildings; Recommendations to Reduce Risks Posed by Biological Attacks

PENNY J. HITCHCOCK, MICHAEL MAIR, THOMAS V. INGLESBY, JONATHAN GROSS, D. A. HENDERSON, TARA O'TOOLE, JOA AHERN-SERONDE, WILLIAM P. BAHNFLETH, TERRY BRENNAN, H. E. BARNEY BURROUGHS, CLIFF DAVIDSON, WILLIAM DELP, DAVID S. ENSOR, RALPH GOMORY, PAULA OLSZEWSKI, JONATHAN M. SAMET, WILLIAM M. SMITH, ANDREW J. STREIFEL, RONALD H. WHITE, and JAMES E. WOODS

If facilities can demonstrate control will employees have confidence to come to work during infectious disease event?

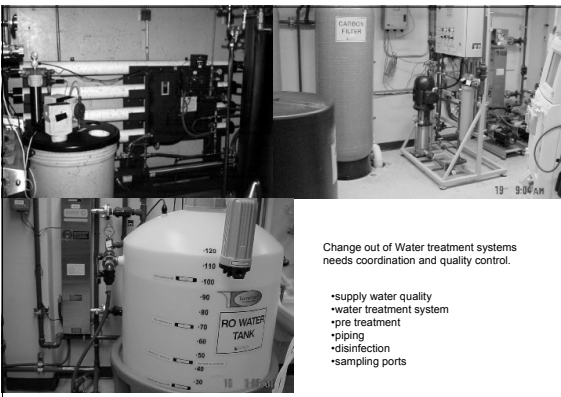
Water Systems in Healthcare

- Drinking water
- Kidney dialysis
- Laboratory
- Therapeutic
- Cooling
- Fire management



Municipal Water Quality

- Debris & color
- Bacteria
- Fungi
- Virus
- Water Usage
 - Drinking
 - Dialysis
 - Laboratory
 - Process



Change out of Water treatment systems needs coordination and quality control.

- *supply water quality
- *water treatment system
- *pre treatment
- *piping
- *disinfection
- *sampling ports

CDC Environmental Infection Control-6/6/2003

Table 18. Microbiologic limits for hemodialysis fluids*

Hemodialysis fluid	Maximum total heterotrophs (CFU/mL) [†]	Maximum endotoxin level (EU/mL) [§]
Present standard		
Product water [¶]		
Used to prepare dialysate	200	No standard
Used to reprocess dialyzers	200	5
Dialysate	2,000	No standard
Proposed standard**		
Product water	200	2
Dialysate	200	2

* The material in this table was compiled from references 789 and 791 (ANSI/AAMI standards RD 5-1992 and ANSI/AAMI RD 47-1993).
[†] Colony forming units per milliliter.
[§] Endotoxin in units per milliliter.
[¶] Product water presently includes water used to prepare dialysate and water used to reprocess dialyzers.
^{**} Dialysate for hemodialysis, RD 52, under development, American National Standards Institute, Association for the Advancement of Medical Instrumentation (AAMI).

Non-Tuberculous Mycobacteria: Infections or Colonization

Implicated Environmental Vehicle	<i>Mycobacterium</i> spp.
Inadequately sterilized medical instruments	<i>M. abscessus</i> , <i>M. chelonae</i> , <i>M. fortuitum</i>
Potable water, ice	<i>M. avium</i> complex (MAC), <i>M. fortuitum</i> , <i>M. ulcerans</i>
Hydrotherapy tanks and pools	<i>M. chelonae</i> , <i>M. fortuitum</i> , <i>M. marinum</i>
Reprocessed dialyzers	<i>M. chelonae</i>
Shower aerosols	<i>M. fortuitum</i>

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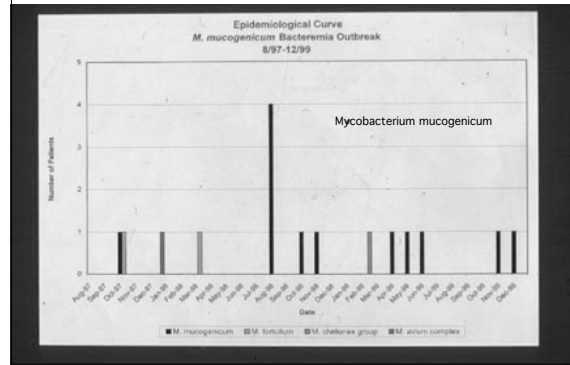
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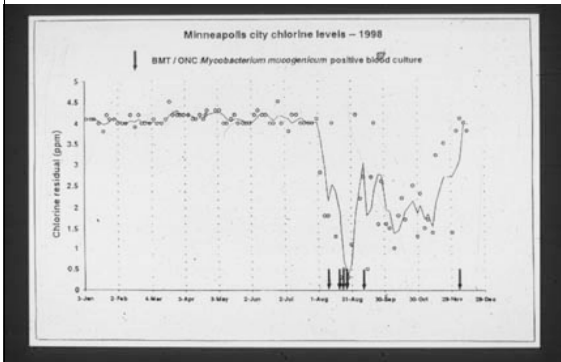
Non-Tuberculous Mycobacteria: Pseudo-Outbreaks

Implicated Environmental Vehicle	<i>Mycobacterium</i> Spp.
Potable water used during bronchoscopy, instrument reprocessing	<i>M. chelonae</i>
Potable water, ice	<i>M. fortuitum</i> , <i>M. gordonae</i> , <i>M. kansasii</i> , <i>M. terrae</i> , <i>M. xenopi</i>
Intrinsically-contaminated laboratory solution	<i>M. gordonae</i>

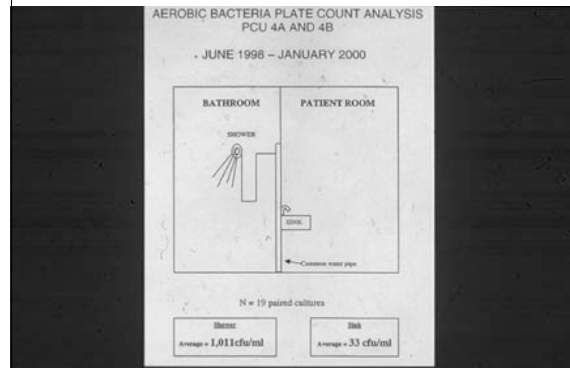
EPIDEMIOLOGICAL CURVE FOR BLOOD ISOLATES RECOVERED FROM BONE MARROW TRANSPLANTS



Chloramine levels in Minneapolis near the hospital



Paired water samples from patient rooms



Bio-film on the inside of plumbing fixtures



Showers can be sources of microbes
avoid stagnant water by draining
hoses and offering reminders.



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Healthcare-associated Outbreaks of Legionellosis

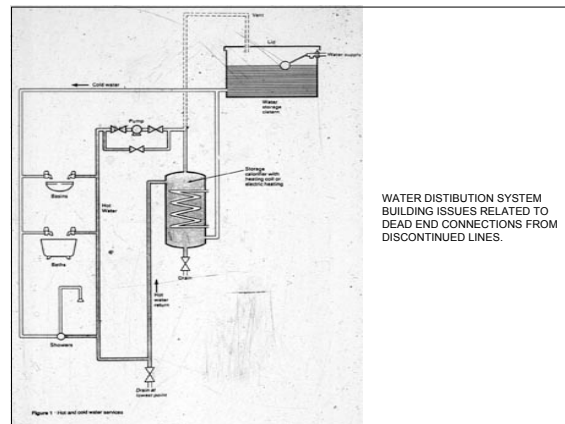
- Contaminated aerosols
- Exposure to aerosols produced from:
 - Cooling towers
 - Showers, aerators
 - Faucets
 - Respiratory therapy equipment
 - Room-air humidifiers
 - Decorative fountains

Colonization of Man-made Aqueous Environments

- Temperatures of 25° - 42° C (77° - 107.6° F)
- Stagnation; dead legs
- Scale and sediment
- Presence of certain free-living aquatic amoebae that can support intracellular growth of *Legionella*

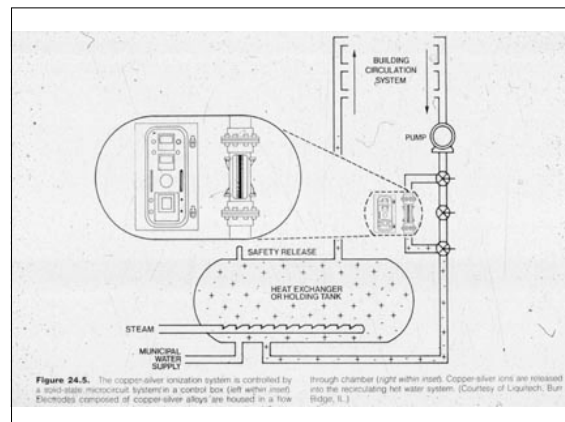
PREVENTION AND CONTROL

- **CULTURE WATER FOR LEGIONELLA**
 - IF FOUND CULTURE PATIENTS
 - RETROSPECTIVE EPIDEMIOLOGY
 - WATER SYSTEM DECONTAMINATION
- **FOLLOW HIGH RISK PATIENT**
 - IF FOUND IN PATIENT WITH NOSOCOMIAL PNEUMONIA
 - INITIATE SEARCH FOR WATER SOURCE
 - MAINTAIN COOLING TOWERS AND USE STERILE WATER FOR NEBULIZATION
- **MAINTAIN POTABLE WATER**
 - >50C OR <20C RECIRCULATION IDEAL
 - HEATED WATER AT 1-2MG/L FREE RESIDUAL CHLORINE



Drinking Water System Disinfection


- ▶ **superheat and flush**
 - 158F (70C)
- ▶ **hyperchlorination**
 - continuous 2-6ppm free chlorine residual
 - bolus intermittent 17ppm
- ▶ **Instantaneous steam heating**
 - flash heating 88C
 - blend water and recirculate
- ▶ **Ultraviolet light**
 - no residual
 - maintenance essential
- ▶ **Ozone**
 - effective microbicide
 - no residual
- ▶ **Metal ion**
 - silver & copper
 - electrostatic stresses affect cell death



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Chlorine dioxide is a stable water disinfectant that can be added to an existing water distribution system.

The methods of adding chemical to the water supply makes the hospital a secondary water treatment facility needing added sampling for residual and by product.




Legionella Control with Chlorination

- In 1990 - 23% of municipalities with >50,000 people used mono chloramine disinfection
- Advantages:
 - does not form trihalomethanes
 - heat stable
 - more effective at penetrating bio film
- Hospitals with outbreaks of Legionellosis predominately >200 beds
 - 73% of those hospitals have a transplant program
 - 31 outbreaks in hospitals with free available chlorine
 - only one outbreak with mono chloramine
- Chlorine dioxide
 - local production for legionella management (PCU area or whole hospital?)
 - long term disinfection Royal Infirmary Glasgow Scotland (10 years)


Cooling Tower Concerns

- Cooling towers provide ideal environments for *Legionella* spp. growth
- Locate cooling towers to minimize intake of drift aerosols into the ventilation system
- Perform maintenance cleaning and treatment as per manufacturer's instructions and other available guidance
- Clean and treat before seasonal start-up



Cooling Tower Consideration

- location of air intakes
- drift eliminators in place
- design to facilitate cleaning and disinfection
- corrosion and biomass treatment
- tower materials resistant to disinfection
- startup of tower greater risk for dispersal
- routine maintenance
- testing & record keeping

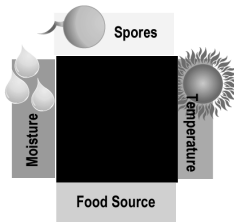



CONTINUOUS TREATMENT OF TOWER WATER WITH CHEMICALS

- optimize chemical usage
- control biofilm to control legionella
- enhance efficiency
- precautions when cleaning

Water Damage Management

- Reactive
 - respond to water incident
 - determine extent of water damage
 - cut out or dry
- Proactive
 - water resistant material
 - preservative application
 - proper installation

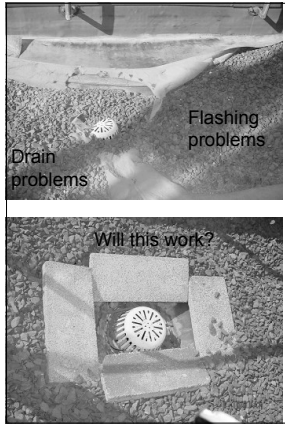



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Flashing on the roof protects from water buildup.

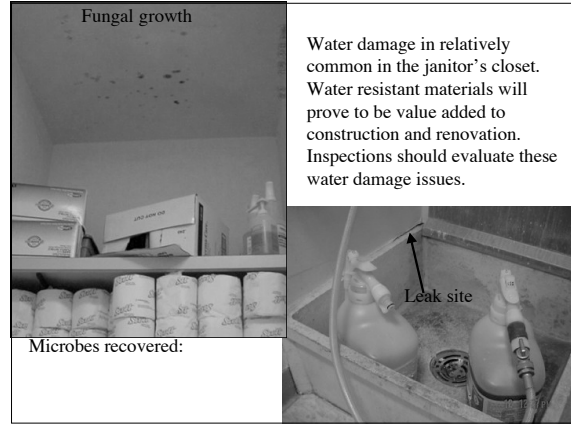
Drain problems

Flashing problems

Will this work?

Roof drain

Preventative Maintenance is Infection Control



Fungal growth

Water damage in relatively common in the janitor's closet. Water resistant materials will prove to be value added to construction and renovation. Inspections should evaluate these water damage issues.

Leak site

Microbes recovered:



Contaminated sink

MOLD SOURCES ARE COMMON CONTROL PREVENTS INFECTION & OTHER ISSUES

Water related incidences

At University of Minnesota Medical Center, Fairview from 11/21/06 to 11/20/07

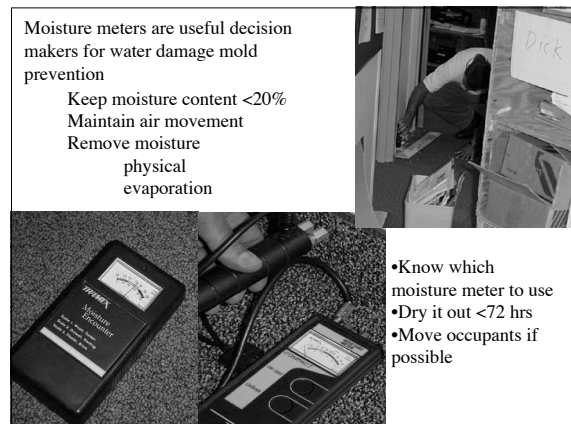
1364 total water events	71 water events in Bone Marrow Transplant (BMT)
<ul style="list-style-type: none"> • 612 toilet plugged • 47 showers plugged • 41 shower leaking • 32 sink leaking • 22 water leaks 	<ul style="list-style-type: none"> ➢ 20 toilet plugged ➢ 20 sink plugged

Mold Growth Management

- Mold growth
 - about 4 hours with ideal conditions
 - Mycelial growth
 - Sporulation about 72 to 96 hours
 - Dissemination of spores
- Mold Growth Conditions
 - About 25% water content
 - Approximately 95% relative humidity
- Interrupt growth
 - Reduce moisture
 - Resistant substrate

Moisture meters are useful decision makers for water damage mold prevention

- Keep moisture content <20%
- Maintain air movement
- Remove moisture
 - physical
 - evaporation



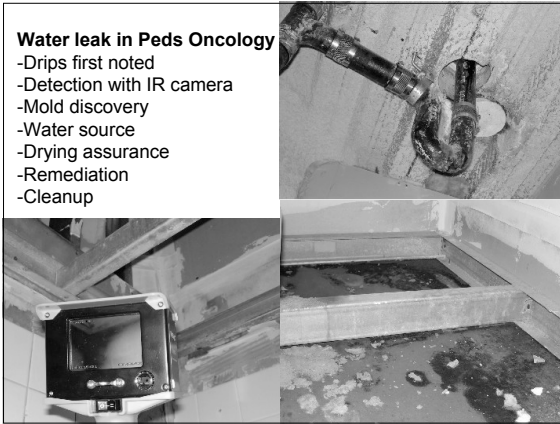
- Know which moisture meter to use
- Dry it out <72 hrs
- Move occupants if possible

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Water leak in Peds Oncology
 -Drips first noted
 -Detection with IR camera
 -Mold discovery
 -Water source
 -Drying assurance
 -Remediation
 -Cleanup

Process for Mold Remediation & Mitigation

- Recognize and identify mold by smell or sight
- Document the scope of the problem
- Find and eliminate source of moisture
- Dry and maintain an environment free of excess moisture
- Remove and replace saturated building materials
- Assess situation & evaluate if pesticide treatment is needed
- Wipe, scrape and clean visible mold from affected area
- Paint, coat or seal building material when conditions indicate
- Treat mold with labeled pesticide and/or
- Consult an expert for best practice

JCAHO ENVIRONMENT OF CARE UTILITY MANAGEMENT

- **EC.7.10.15 – Management of Water Systems**
 - LAB, DIALYSIS, MUNICIPAL, PROCESS, EMERGENCY
- **EC.7.10.16 – Management of Ventilation Systems**
 - SUPPLY, RETURN, EXHAUST, LOCAL
- **EC.7.30.4 - Testing of Infection Control Support Equipment**
 - METHODS, PARAMETERS, LIMITS, CORRECTION

Hospital Maintenance for Infection Prevention

- Maintenance essential to the sustainability of the HCF.
- Maintenance of ventilation, water fixtures and water damage will help assure control of critical patient care facilities.
- “Out of sight: Out of mind” bad indicator of potential problems.
- Infection Prevention & Control must team with facilities management for environmental safety priorities.

THE NEXT FEW TELECLASSES

30 Oct. 08	LTC – How Maryland Increased ICP Presence in Long Term Care Facilities Speaker: Dr. Brenda Roup, Maryland Department of Health and Mental Health
11 Nov. 08	(British Teleclass) Clostridium difficile - Prevention is Better Than Cure Speaker: Prof Mark Wilcox, University of Leeds
20 Nov. 08	Managing Indoor Air & Water Systems for Infection Control & Prevention Speaker: Andrew Streifel, University of Minnesota
4 Dec. 08	Halting the Spread of MRSA Between Acute Care Facilities and Long Term Care Facilities Speaker: TBA

2009 Teleclass Schedule ...

Watch This Space

www.webbertraining.com/schedulep1.php

Hosted by Paul Webber paul@webbertraining.com
www.webbertraining.com