CT School Indoor Environment Resource Team

Advanced
TfS for
Custodians/
Facilities
Workshop



Welcome!

EPA's Indoor Air Quality Tools for Schools

4/2011

AGENDA



- Overview of IAQ
- > Review of TfS Program
- > Virtual Walkthrough
- ➢ Green Cleaning BREAK
- Cleaning & Disinfecting

Addressing school IAQ issues is a very important public health issue:

Asthma epidemic – High rate of asthma in Hartford

Asthma – biggest health reason for absenteeism

Important staff health issue – educators have have highest rate of IAQ related occupational disease

- -We have a program that really works Hartford has made much headway, still needs work
- -Hartford received a Good Start Award from EPA last year
- -State Law

Why is This Important?



- Children's Asthma Epidemic & Absenteeism
- >Staff Health Issues
- >EPA'S TfS Program Works
- State Law Requires All CT Schools Have IAQ Program, Green Cleaning

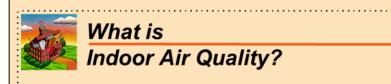
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in-door (in'dor') adj. air (er,ar) n. quality (kwo'i'te) n.

1. the temperature, humidity, ventilation, and chemical or biological contaminants of the air inside a building.



Read the definition, say main focus of problem is contaminants, ventilation issues and temp/humidity

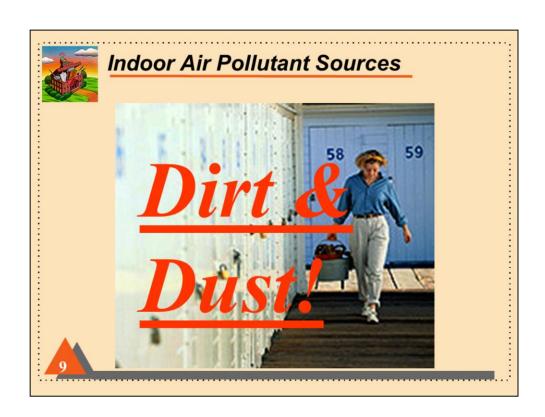


EXPLAIN the following points:

- □ As a result of poor IAQ, health problems can include coughing, asthma episodes, bronchitis, headaches, allergic reactions, toxic poisoning, and the spread of infectious diseases.
- □ Students don't learn as well and teachers don't teach as well when they are suffering health effects of poor IAQ.
- When schools aren't aware of IAQ problems, and don't act to prevent them, the eventual costs may be much higher than would have been the case otherwise. Identifying and fixing a problem early, or taking preventive measures, may save many dollars in the long run. For example, if schools must be closed for repair, if substitute teachers must be hired to replace sick ones, or if equipment must be replaced rather than maintained, large costs may be incurred.
- Negative publicity resulting from poor IAQ may have parents and community members upset, generating lack of trust for the school system.
- The school system may even be sued for damages caused by poor IAQ.



- Building materials and furnishings—like paneling, draperies, or desks—contain components like resins, adhesives, and solvents. These products can emit volatile organic compounds (VOCs) that cause irritating symptoms.
- Maintenance products—such as paints, caulking, and adhesives, emit contaminants while in use or storage.
- Office equipment such as copiers, trade equipment in industrial shops, and science equipment in labs contain formaldehyde and other VOCs, such as ozone, phenols, and methanol.
- •Microbiological pollutants include bacteria, viruses, allergens such as pollen, insect parts, and fungi such as mold. Wet carpeting and building materials resulting from leaks, cooling towers, humidifiers, drains, and ducts are incubators of these types of pollutants.
- •Common outdoor pollutants that can be sources of indoor air pollution are bus and automobile exhaust, pollen, pesticides, and dust. Dumpsters are also a source of outdoor pollution.
- Radon is a naturally occurring radioactive soil gas that cannot be seen, smelled, or tasted. It is also the second leading cause of lung cancer.





Common HVAC System Problems

- Insufficient Outdoor Air Supply
- Controls Broken or Disconnected
- Dirty Filters
- Microbiological Growth in Drip Pans, Ductwork, Coils, & Humidifiers
- Improper Operation and/or Maintenance



EXPLAIN that HVAC systems may contribute to IAQ problems in several ways:

- As stated before, they may not have been designed to supply sufficient outdoor air or to remove indoor pollutants sufficiently through ventilation. Sometimes people deliberately block the flow of outdoor air.
- Sometimes ventilation controls are broken or deliberately disconnected.
- Filters, if not changed on schedule, become dirty and prevent proper ventilation.

Without regular cleaning, microbiological growth may occur in drip pans, duct work, coils, and humidifiers.

What About "Testing the Air"?



Usually Not the First Move:

- · You Have to Know What You Are Looking for
- There Are No Appropriate Standards for IAQ
- · There Are No Standards for Indoor Molds Levels
- Results May Be Hard to Interpret
- Can Lead to Confusion, Mistrust

A Comprehensive Building Evaluation Is 1st Step

Note: Useful Tests:

- Temperature
- Water Vapor
- · CO₂

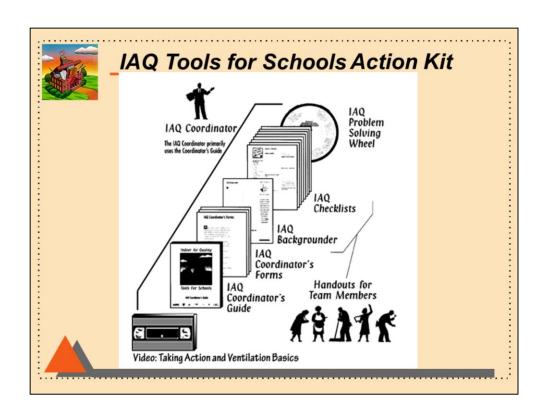


- •There are no appropriate standards for use in indoor environments such as schools and residences. There are some industrial standards for permissible exposure limits for certain chemicals used in manufacturing and other work place settings, but these standards should not be used for children, sensitive populations such as pregnant women, the elderly, or people with certain illnesses. There are no standards for indoor levels of molds so mold testing is not recommended:
- •Find and fix the moisture source, kill and remove mold spores
- •Testing as a first response does not usually lead to an answer or solution. Very often air testing is conducted as a knee-jerk reaction to a reported IAQ problem. Such testing done in the absence of a hypothesis, or as part of a well-planned investigation, usually produces data that raises more questions that it answers. It can raise expectations that a solution will follow, and subsequently raises suspicions if no answer is found.
- •Refer participants to fact sheet:

Indoor Air Quality Testing Should Not Be The First Move

- in coordinators folder
- on DPH CD

•Suggest that fact sheet be posted on district web site







Beyond Tools for Schools

Information for Custodians & Maintenance Personnel



Note that we may or may not get to the last two topics... can select dependant on interest

You Are on the Front Line

- You See Everything
- Staff Report Their Concerns to You
- As a Tools for Schools Team
 Member You Build Cooperation
 and Improve Communication

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Virtual Walk-through:

What's Wrong with this Picture?

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Hazardous chemical cleaners, insecticides etc



Clutter... can't clean



Sources- friable insulation (asbestos?) mercury



Occupied buildings under construction



Water incursion



..... A risk factor for mold and other microbial agents



Carpet- slab on grade



Pests.....



Air intake for ventilation system at grade



Idling vehicles...



Unit ventilators- hard to maintain with limited staff



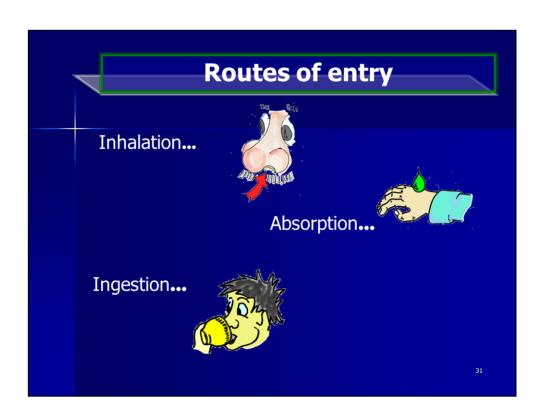
Clutter on unit ventilator, air purifier- ozone?

Issues Identified

- Ventilation- Can Provide Dilution
 & Thermal Comfort If Properly
 Designed & Maintained
- **Chemical Sources Need Controls**
- Moisture Incursion- a Risk Factor for Biological Agents

2







Have Group list their opinions on a flip chart before you respond......





News release: Connecticut Governor M. Jodi Rell has signed legislation that requires local and regional school districts to use green cleaning products in schools. The helping to ensure a healthier air quality for students, faculty and staff. School districts must have a green cleaning program in place by July 1, 2011. The environmentally preferable products must meet nationally certified guidelines and be approved by the state Department of Administrative Services. They include products used for general-purpose cleaning; bathroom, glass and carpet cleaners; hand cleaners and soaps; floor finishers and strippers.

The 3 Step Program

- Step One Choose "Green" Cleaning Products (Environmentally Preferable, When Possible)
- Step Two Practice State-of-the-art Cleaning Methods ("Best Practices")
- Step Three Use Appropriate Materials and Updated Equipment

Step 1: "Green" Products

Environmentally Preferable Cleaning Products

- Less Toxic, Effective Cleaning Products
- Independent Third-party Certification
- Common Third Party Programs
 Are:
 - Green Seal- US
 - Environmental Choice (EC)- Canada



Activity- MSDS review



Criteria for "Green" Cleaners

- Health-based
 No Carcinogens, Reproductive Toxins,
 Skin Sensitizers; Low Vocs, Skin
 Absorption; AOEC Asthmagens
- Environmental Properties
 Biodegradability, Toxicity to Aquatic
 Organisms, Combustibility, Recyclable
 Packaging
- Verifies Performance

Task-Based Cleaning



- One Heavy-duty Cleaning Product
- One Concentrate Diluted for Several Tasks

Specialty Cleaning Products (Graffiti Remover)

Step 2: Cleaning for Health Best Practices

- Clean From the Top Down
- Maintain Flooring/Replace Carpets
- > Clean up Spills Right Away
- Cleaning With Detergent Removes Most Germs. Disinfect Only Target Areas
- > Avoid Aerosol Sprays
- Vacuum Instead of Dust Mopping



Walk-off Mats



- -Up to 80% of Soil in BuildingsTracked by Feet
- -15-20' of Multi-level Scrubber Matting



Microfiber

- Microfiber Mops and Cloths
 - Reduce Amount of Chemical Needed
 - Mops Are Ergonomically Designed
 - Trap & Remove 99% of Soils
 - 2-section Mop Buckets
 - New Small Washers



Project Recommendations:

For your routine disinfecting protocol, we recommend using a liquid disinfectant and microfiber mops or cloths. The advantages of each type of disinfection application process and equipment are detailed below. We list other types of application processes and equipment to enable you to compare them to our recommendations and because there may be certain applications where they are the best option, e.g., using disinfecting wipes after cleaning up vomit on a school bus. Remember all of the following types of applications require that you clean the surface with detergent and rinse prior to using a disinfectant.

Application Options

Bucket and Mops

Disadvantages - The mopping procedure actually can spread heavy microbial contamination throughout a facility

Mops and cloths must be adequately cleaned and disinfected, and water-disinfectant mixture must be changed regularly at least every hour after every three to four rooms. Since these guidelines are often not followed, there are problems with cross contamination and germs breeding on mop and cloths. You could use color coded mops and buckets. If you do use a mop and bucket, we recommend using buckets that separate clean and dirty water, so you are not dipping back into the dirty water.

It is hard to disinfect a mop. In one study, standard laundering provided acceptable decontamination of heavily contaminated mop heads, but chemical disinfection with a phenolic (which is a type of disinfectant too strong to use in a school setting) was less effective. Thus, the recommendation is daily laundering of mops. Single-use disposable towels impregnated with a disinfectant also can be used for low-level disinfection for spot-disinfection.

Advantages

Can cover large areas.

Can use existing equipment.

Pre-Saturated Microfiber Mop Head

Advantages

Prevents cross contamination if changed for each room.

Microfiber has been found to capture over 90% of bacteria in a hospital setting.

Disadvantages

Need one for each room.

Must be laundered.

Floor Care Equipment

- **High-filtration Vacuum Cleaners**
 - Carpet and Rug Institute –Www.Carpet-rug.Org
- Vacuum Attachments for Buffers/burnishers



Autoscrubbers With Stripping Pads



What Has Your School System Done to Implement a Cleaning for Health Program?

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If multiple schools are present, ask a representative from each school to summarize their program for the group.



What are your Challenges?

- Classrooms Not Ready for Cleaning
- Teachers, Staff, or Children Supplying Cleaning Products From Home
- Staffing
- Custodial Closet (With a Custodian)/ 14-18,000 Ft²
- Communication Issues
- Demand for Disinfection



Cleaning and Disinfecting Surfaces to Help Prevent the Spread of H1N1 Flu Virus

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Note- although the focus of this presentation is on H1N1, the general infection control principles apply for other agents (MRSA, GI illnesses etc).... If schools develop a careful protocol, this will be of benefit throughout the year.

Other types of illnesses:

Common cold

Mononucleosis

Strep throat

Other flues

Diarrhea illnesses

Disclaimer

- The Information Provided in This Section of the Presentation Is Based on Current Guidance
- The Sources Referenced in This Section Should Be Consulted Frequently to Obtain the Most Upto-date Information.

Novel H1N1 Influenza (Type A)

Influenza mainly spread person to person through coughing and sneezing. Droplets can travel as far as six feet.

Surface contamination:

person sneezes into hands >
touches surfaces >
others touch surfaces >
then touch their nose/mouth/eyes

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Droplets from a cough or sneeze from an infected person move through the air and make contact with the mouth or nose of people nearby.

How long can influenza virus survive on surface & infect persons?

- Hands- Several Hours
- Hard Surfaces- 2-8 Hours (Estimates Vary)
- Persistence Influenced by Humidity and Temperature

5

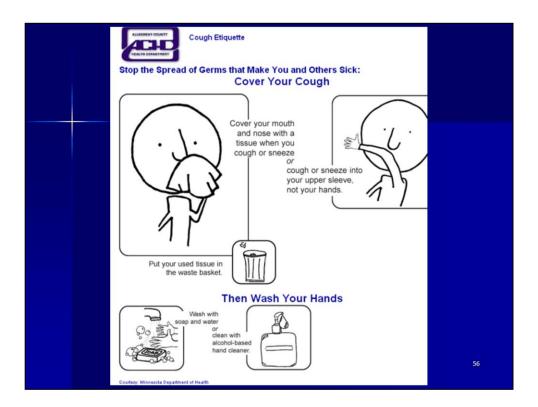
How long can influenza virus remain viable on objects (such as books and doorknobs)?

Studies have shown that influenza virus can survive on environmental surfaces and can infect a person for up to 2-8 hours after being deposited on the surface.

IFMA Pandemic preparedness manual (2006): influenza viruses may live on hard surfaces for up to two days.

Infection Control Coordination with school nurse and town health officer Good Personal and Hand Hygiene Keep Your Hands Away From Your Face Cough Etiquette Social Distancing

School Custodial and Nursing Staff are on the Front Line for Infection Control Although beyond the scope of this talk, this is where I would mention that the CDC states that alcohol based hand sanitizers (>60%) are effective against H1N1. Non-alcohol based hand sanitizers may be.



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Surface Cleaning

- Regular Cleaning
- Prudent, Targeted Use of Disinfectants for Surfaces Touched Frequently by Hands. In Most Cases Frequent Cleaning May Be Enough
- Schools Should Continue to Clean & Disinfect the School Buildings per Regular Schedule

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Disinfection is not the recommended method for controlling the spread of H1N1.... If a school chooses to use disinfectants, must do so carefully.

Clean surfaces and items that are more likely to have frequent hand contact with cleaning agents that are usually used in these areas. Additional disinfection beyond routine cleaning is not recommended.

Hand rails

Door knobs

Elevator buttons

Sinks and faucets

Counter tops

Window sills

Light switches

Equipment controls

Cabinet and file drawer knobs/handles

Vending machines

Chair arms

Copier/printer/fax control buttons

Definitions

- All Purpose Cleaners
 Remove dirt, grease, grime, germs
- SanitizersReduce the level of microorganisms
- Disinfectants
 Destroy multiple specific test organisms

5

Cleaners don't disinfect and disinfectants don't clean

Sanitizers reduce microorganisms to levels considered safe as determined by public health codes or regulations.

general all purpose cleaning products can remove germs but are not disinfectants; EPA prohibits disinfectants from

being labeled 'green', meaning having a reduced effect on health and the environment; Green Seal criteria for cleaning products include

Environment and health effects, as well as product efficacy, and have for many years;

Green Seal recently updated its green cleaning product criteria to strengthen protections for sensitive populations through an extensive

process that engaged 399 stakeholders over 20 months; the details of the new standard were published in August 2008

We recommend the judicious use of disinfectants and sanitizers consistent with CDC and state public health agency

guidelines; further, the use of green cleaning products does not supercede specific needs, such as the OSHA blood borne pathogen rule or appropriate mold remediation.

Both sanitizers and disinfectants are products regulated by the Environmental Protection Agency (EPA). The EPA establishes the rules that govern these products including their testing, claims and direction for use. A disinfectant must completely eliminate all the organisms listed on its label. These organisms are not limited to bacteria but could include viruses and fungi. Sanitizers need not eliminate one hundred percent of all organisms to be effective. Nor are fungi or viruses ever included in a sanitizing claim. For food contact surfaces, a sanitizer must reduce the bacterial count by 99.999%.

A <u>Disinfectant</u> is a product which completely destroys all specific test organisms in 10 minutes under conditions of the AOAC Use Dilution Test.

A <u>Sanitizer</u> is a product which destroys 99.999% of specified test bacteria in 30 seconds under conditions of the Official Detergent Sanitizer Test (sometimes called Weber & Black Test).

What's the difference between cleaners, sanitizers, and disinfectants?

Cleaners or detergents are products that are used to remove soil, dirt, dust, organic matter, and germs (like bacteria, viruses, and fungi). Cleaners or detergents work by washing the surface to lift dirt and germs off surfaces so they can be rinsed away with water. The same thing happens when you wash your hands with soap and water or when you wash dishes. Rinsing is an important part of the cleaning process. Use these products for routine cleaning of surfaces.

Sanitizers are used to reduce germs from surfaces but not totally get rid of them. Sanitizers reduce the germs from surfaces to levels that considered safe.

Disinfectants are chemical products that destroy or inactivate germs and prevent them from growing. Disinfectants have no effect on dirt, soil, or dust. Disinfectants are regulated by the U.S. Environmental Protection Agency (EPA). You can use a disinfectant after cleaning for surfaces that have visible blood or drainage from infected skin

 $http://www.dupagehealth.org/health_ed/Communicable\% 20 Disease\% 20 Binder/8\% 20 Safe\% 20 and\% 20 Healthy\% 20 Environment/New\% 20 and\% 20 Updated\% 20 Questions\% 20 and\% 20 Answers\% 20 about\% 20 Cleaning.pdf$

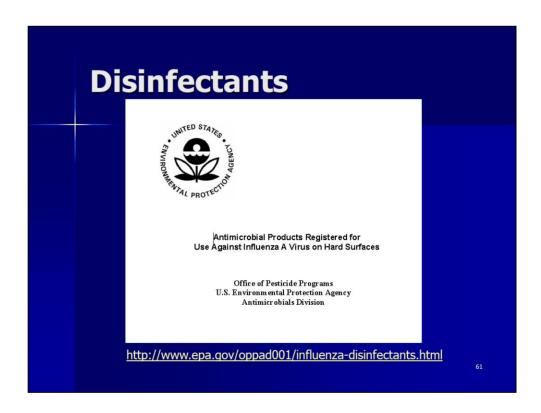
All Purpose Cleaners

Select Green, Third Party Certification



- Use Microfiber/ Friction
- Avoid Cross- Contamination





Products currently registered as effective against "influenza A virus" should be effective against novel H1N1 on hard, non-porous surfaces

Active Ingredients (depending on concentration) effective against "Influenza A virus" include: - Chlorine or Hypochlorite - Phenolics - Quaternary Ammonium Compounds [Quats] - Alcohols (>60%) - Peroxides* If Possible, Choose an Environmentally Preferable Disinfectant

Usually considered to be the most environmentally preferable This list is in the decending order of toxicity

Health Hazards of Disinfectants

- Chlorine or Hypochlorite- Corrosive
- Phenolics Rashes
- Quaternary Ammonium Compounds[Quats]- Work Related Asthma
- Alcohols- CNS Symptoms
- Hydrogen Peroxide- Slight Irritation



After dwell time wipe/rinse off or allow to air dry according to manufacturer's directions.

Carefully select the product

- Review Product Labels
- Use With the Appropriate Dilution
- Use Appropriate Dwell Time

VIREX™ II

ONE-STEP DISINFECTANT CLEANER AND DEODORANT

Profile

110110								
WHAT IS IT?		One-step disinfectant cleaner and deodorant						
WHAT DO I USE IT OH?		For use on hard, inanimate, non-porous surfaces such as floors, walls, nonelain, and plastic surfaces in hospitals, nursing homes, schools, colleges an hotels.	nd					
How no luse it?		Can be applied with a mop, sponge or cloth, as well as coarse spraying or soaking.						
CAUTIONS	$\overline{}$	To disinfect hard, non-porous surfaces, treated surfaces must remain wet for 10 minutes. Allow surfaces to remain wet for 1-minute to kill HIV-1,	$\overline{}$					
l		5-minutes to kill HBV.						

Specifications

opecinications.								
	VIREX II 128		VIREX II 256					
Dilution:	1.128		1256					
Active Ingredients:	8.447% quaternary germicides		16.894% quaternary germicides					
% Actives in Use Solution:	660 ppm		660 ppm					
EPA Reg. No.:	70627-21		70627-24					
Surfactants:	Nonionic and cationic		Nonionic and cationic					
Color/Form:	Transparent blue liquid		Transparent blue liquid					
Fragrance:	Mild		Mild					
pH: (concentrate):	10.0-10.5		10.0-10.5					
(use-solution):	9.0-10.0		9.0-10.0					
Solubility in Water:	Complete		Complete					
Cleaning Performance:	Good		Good					
Rinsability:	Excellent		Excellent					
Foa ming:	Slight to moderate		Slight to moderate					
Specific Gravity (water = 1.0):			1.0					
Phosphates:	None		None					
Flash Point:	None (TCC)		None (TCC)					
Chemical Stability:	Chemically stable from 40°F to 100°F							
(germicidal properties not affected by storage in this temperature re								
Shelf Life: (concentrate)	36 months stability		36 months stability					
(u se solution)	Up to one year bactericidal stability		Up to one year bactericidal stability					
HM IS/NFPA HAZARO RATING	Virex II 128	Use Solution	Virex II 256	Use Solution				
15								
Health	3	1	3	1				
Rammability	0	0	0	0				
Reactivity	0	0	0	0				
l								

Efficacy Summary

INTER II disentant cost las 600 priori active quaternary germicide making it highly effective against aw dis visitety or pathogens microofigations when olisted as directed.

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Pre-Cleaning

- Disinfectants Disabled If Surface Has Much
 Organic Material (Dirt, Food, Body Waste)
- Important to Clean 1st, Then Disinfect (Best Practice)
- One Step Cleaner Disinfectants Only Effective If Surface Is Not Visibly Dirty.
- Heavily Soiled Surfaces (or When Using Products That Have Not Been Tested With Organic Soil) Must Be Cleaned First

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Organic soil in the test is simulated with 5% blood serum.

Health and Safety

- Do Not Mix Disinfectants With Some Cleaners (eg: Bleach [Chlorine]) With Ammonia/Quaternary Ammonia)
- Never Spray Disinfectant in a Room
- Use Appropriate PPE



Use With Adequate Ventilation



The new green law requires this....

Activity

You Are the Head Custodian for a School in Connecticut. Your School District Has Cases of H1N1. The BoE Has Asked You to Share Your Cleaning Protocol With Them. Use the Activity to Develop an SOP.



School Response

- School Communicated With CT DPH & Local
 Health Director
- School Was Not Closed
- Cleaning Protocols Enhanced
 - -Cleaned the School Thoroughly Using Best Practices
 - -Used All Purpose Cleaner During Day for High Touch Points
 - -Used Virex Disinfectant at End of Day Without Occupants in the School (See Technical Sheet)
 - -Observed Dwell Time
 - -Used Microfiber Cloths
 - -Wore Gloves As Part of Best Practices (Normal Routine)

Facility Director Asks...

- What Is the Organism? How Long Does It Live?
- Is It Airborne?
- What Cleaning Protocols Are Needed to Address This Outbreak?
- How Do I Protect My Custodial Staff During Cleaning? Do They Need to Wear a Mask?
- What Is the Best Source for Information?

...Guidance and resources needed for custodians & cleaning staff



Additional Resources

US Centers for Disease Control and Prevention http://www.cdc.gov/h1n1flu/guidance/guidelinescolleges.htm

CT Department of Health and Local Health Departments

http://www.ct.gov/dph

National Cleaning for Healthier Schools and Infection Control Workgroup

Infection Control Handbook:

http://www.informedgreensolutions.org/?q=publications/school

Informed Green Solutions:

www.informedgreensolutions.org

Acknowledgements

Marian Heyman, Kenny Foscue, Joan Simpson
Environmental & Occupational Health Assessment
Program

Indoor Environmental Quality Unit
Environmental Health Section
Connecticut Department of Public Health

Telephone: 860-509-7740

http://www.dph.state.ct.us/BRS/EOHA/iagcm.htm

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CSIERT
Connecticut School Indoor Environment
Resource Team
http://csiert.tfsiaq.com/index.html

National Collaborative Work Group on Green Cleaning and Chemical Policy Reform in Schools www.cleaningforhealthyschools.org

UCONN Health Center Center for Indoor Environments and Health Anne Bracker, Nancy Simcox and Paula Schenck Division of Occupational and Environmental Medicine (860) 679-2368

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EVALUATIONS Thank You!