Children’s health is uniquely affected by our environment. Today, children are growing up with complex environmental threats to health—from asthma-inducing air pollution to toxic chemicals. Children are particularly vulnerable to environmental health risks because: 1) their bodies are still developing, 2) they proportionally eat, drink, and breathe more per pound of body weight than adults, 3) they are exposed to more environmental threats, and 4) they are least able to identify or to protect themselves from exposures to different environmental hazards.

Asthma is the most common chronic childhood illness in the United States, affecting some 4.8 million children under age 18. In New York State alone, there are more than 320,000 cases of pediatric asthma, based on federal estimates. Schools are not required to report student accident, illness, injury, chronic health impairments, or absentee rates to the State Education Department (SED).

US EPA’S “TOOLS FOR SCHOOLS”

The United States Environmental Protection Agency created this self-help kit since so many schools have IAQ problems which can be resolved easily and at low cost with the assistance of school personnel. It has been sponsored at the national level by: the EPA, the American Federation of Teachers, the National Education Association, National PTA, the American Lung Association, and others.

See Creating Healthy Indoor Air Quality in Schools at https://www.epa.gov/iaq-schools
Symptoms of Indoor Air Pollution

The chart below shows some typical signs/symptoms of IAQ problems. Not every individual reacts the same way to air pollutants. Children may react differently than adults. Since poorly maintained buildings are likely to have many pollutants, it is also likely that individuals could have reactions to several pollutants at the same time. Building occupants who are asthmatic, allergic, chemically sensitive, wear contact lenses, or have impaired health may be particularly vulnerable.

There is a growing evidence that poor IAQ can produce verbal, perceptual, motor, and behavioral disabilities in children. It can also cause hearing impairments, irritability and developmental delays.

### Signs & Symptoms | Possible Causes
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Respiratory rhinitis, nasal congestion | 1, 2, 3, 4, 6
nosebleed | 4
pharyngitis, cough | 1, 2, 3, 4, 6
wheezing, worsening asthma | 2, 6
shortness of breath | 1, 3, 6
severe lung disease | 1
Other red, watery eyes | 1, 2, 3, 4, 6
headache or dizziness | 1, 2, 3, 4, 5, 6
lethargy, fatigue, malaise | 1, 2, 3, 4, 5
nausea, vomiting, loss of appetite | 2, 3, 4, 5
cognitive impairment, personality change | 1, 2, 4, 5
rashes | 3, 4, 5
fever, chills | 3, 5
rapid pulse | 2, 5
retinal hemorrhage | 2
muscle aches | 1, 4
hearing loss | 5

**KEY TO CAUSES OF SYMPTOMS:**
1. Sick Building Syndrome
2. Combustion Products (space heaters, furnaces, etc.)
3. Biological Pollutants (molds, dust mites, animal dander, etc.)
4. Volatile Organics (formaldehyde, pesticides, solvents, cleaning agents)
5. Heavy Metals (airborne lead and mercury vapor)
6. Environmental Tobacco Smoke

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“The Asthma is the most common chronic childhood illness in the US, affecting some 6.3 million children under age 18.”

-American Lung Association
Helping Schools Improve IAQ

If you believe that your school has an IAQ problem, the logical place to start is with the Facility Director, Head Custodian or Building Principal. However, the best way is usually by talking informally with a school staff member who knows you and your child. He or she may also know if any other parent or staff member has expressed similar concerns.

The next step is to find another parent or a teacher to accompany you on your fact-finding. When asking questions, stress that solving IAQ problems will help everyone. It should be a “win-win” issue.

What to ask the building staff:
√ the school nurse – about recent student health problems, and if they know about training for New York State school health professionals in recognizing Environmentally Triggered Illnesses;
√ the teacher or support staff representative - about staff health complaints or other knowledge about this building’s IAQ and if their unions are concerned;
√ the Facility Director/Head Custodian – to walk you through the building and point out repair needs, maintenance plans, staffing and funding;
√ the Principal or Superintendent - for results of any air quality investigations and plans to correct problems.

Individuals are rarely successful in addressing school IAQ. With your facts in hand, get other parents and/or school personnel interested in fixing the easy problems and preventing future costly ones. Ask the local parent association (PTO, PTA, etc.) if it would advocate a program to fix your school’s IAQ. If it isn’t interested, form your own group, starting with two or three people.

Write a letter to the building principal asking the school to follow up on your information by setting up an IAQ committee which includes parents (of course, offer to be on the committee!) and follows the US EPA’s “Tools for Schools” air quality self-help kit for schools.

Parents and children have unique disadvantages with respect to school IAQ. Children don’t connect their symptoms to air quality. Those with headaches and tummy aches may be seen as malingering. The chronically affected may be sent for counseling or may be referred for special learning services.

Parents’ chief advantage lies in being able to independently reach other parents, the broader community, state agencies, and the press. Start by keeping a simple log book or diary. Note the date, your child’s health, learning issues, people you reached, facts gathered.

Parents’ Guide to IAQ

When to Suspect a School a School IAQ Problem:

- The roof leaks; the building smells damp, or has been flooded.
- The building is newly renovated and hasn’t aired out.
- The building is fully carpeted.
- Your child frequently comes home from school with odd smells on his or her clothing.
- Your child has health/learning problems only in the building and not during vacation, or in other settings.
- Building maintenance and repair are always under-budgeted.

DEFINITIONS:

Sick Building Syndrome (SBS) -a term coined in the 1970’s to describe a situation when a substantial proportion of building occupants report health problems associated with occupancy. It is usually attributed to poor design, inadequate ventilation, or toxic materials.

IAQ Emergency – when limited time is available to avert serious health problems or property damage. Examples include: toxic materials spills, symptoms of carbon monoxide poisoning, widespread breathing problems or chest tightness, Legionnaires’ Disease or TB, flooded or water damaged carpeting/floors.
Parents’ Guide to IAQ

WHAT TO DO IF SCHOOL IGNORES IAQ PROBLEMS

Parents trust schools to take care of their children. Parents never expect school officials to refuse information or to misinform. Anticipate the bureaucracy. Keep written records and keep your cool.

After you have exhausted all efforts at the building level, contact the district Superintendent. If you are still refused information, write to the Board of Education.

If indoor air pollution is a problem for many people, call your nearest Council on Occupational Safety and Health, State Department of Health. Ask them to respond in writing to your concerns.

You may also write to the State Education Department, the State Board of Regents, your State Legislator. Keep copies of all of your letters. If all else fails, consider sharing them with the local media.

To gain access to public information, write a letter to the building principal and/or school Superintendent requesting specific information. Schools are public agencies and must comply with the Freedom of Information Act within five days. Here are some examples of information that you can request access to:

- Fire Safety Inspection Report.
- Material Safety Data Sheets (MSDS) for materials and supplies in use or stored in the building.
- Building Condition Survey.
- Record of Occupational Safety & Health (OSHA) inspections.

Examples of What School Districts Should Be Doing

√ Simple Changes to Improve IAQ


- Have a district-wide committee which addresses IAQ and other environmental concerns. This committee can be part of a “Health and Safety Committee”. The following groups should have representation on the committee: parent/community members, school nurse, facility director, central administration, teachers, support staff, and other unions represented in the school district.

- Have building-level committees which address specific concerns. Again, parents and staff should be represented on the committee.

- Have a report form available to parents and school personnel for reporting environmental quality questions and concerns.

- Keep a formal record of health symptoms that are reported to schools nurses.

- Regularly train staff on health and safety issues.


TIPS FROM PARENTS:

“Try to identify specific problems, such as poor ventilation or toxic cleaning material…”

“Document everything.”

“Build on the successes of other school districts that have made positive changes.”

“Don’t be the Lone Ranger. Try to get other parents involved.”

For more information about IAQ in schools in your state, visit the National Association of State Boards of Education’s state policies report at https://statepolicies.nasbe.org/
Special Accommodations for Allergic Children

When your child seems to be the only one with serious, disabling reactions to indoor air pollution, you may request “accommodation” for their environmental health needs.

Employees have a right to “reasonable accommodation” in the workplace. “Reasonable accommodation” are changes which do not place an unusual cost on the employer. Children, however, have only one chance at an education and are compelled to attend school. Thus, children have even stronger rights: the right to a Free Appropriate Public Education (FAPE) in the Least Restrictive Environment (LRE).

Discuss with your physicians what kinds of environmental controls would be helpful and follow them at home. Ask the district to forward basic literature to you about accommodation under Section 504 of the Rehabilitation Act or Individuals with Disabilities Act (IDEA). If the district says it is not familiar with these laws or is not required to respond during summer vacation, call the State Education Department or US Office of Civil Rights immediately.

Make sure you understand your rights before you proceed. Do not refer your child to the school’s Section 504 Committee or SCE (Committee for Special Education) until you have read the literature. Discuss these issues with your physician.

The accommodation your child needs and whether the district easily approves the request depends on two things:

1) on your working relationship with the district and your physician
2) On the degree to which your child’s reactions interfere with the ability to think, learn, or breathe in schools.

Some schools have easily and informally provided modest changes in the classroom, such as a seat by the window and a portable air cleaner. Other parents have been asked to show physician letters and have their child evaluated by a school-designated team of specialists. Accommodations specified in plans are individually tailored to each child, and must be approved by the district’s Board of Education.

While modest changes in seating may be all that one child needs in a carpeted, dusty classroom, another child may need changes in cleaning supplies, pest management programs, or instructional supplies. Whatever your child needs, make sure that you can document that you can successfully control your child’s health and learning problems with similar measures at home.

Parents’ Guide to IAQ

WHAT TO DO IF SCHOOL IGNORES IAQ PROBLEMS, CONTINUED-

(Continued from page 4)

- Pesticide product labels, application dates, and the name of the applicator
- School budget and expenses (look for “Operations and Maintenance” expenses)
- Reports on results of testing for lead, radon, asbestos, air quality and names of consultants/companies who carried out the testing, as well as the type of test, date and time.

WEB SITE

Healthy Schools Network, Inc.
www.healthyschools.org

Children’s Environmental Health Network
www.cehn.org

US Environmental Protection Agency
www.epa.gov/schools

MORE TIPS

Many IAQ problems can be prevented by school staff and students. Prevention is cheaper and healthier than pollution clean-up.

Air quality measurements should be taken under actual operating conditions—when the building is fully occupied.

If your child requires special accommodations and school officials refuse to cooperate, you may request Mediation or an Impartial Hearing.

After a “Section 504 Plan” is in place, be sure to request annual reviews of the plan.
Parents’ Guide to IAQ

Healthy Schools Network, Inc.

www.HealthySchools.org

For more information, visit our websites:

www.healthySchools.org
www.cleaningforhealthyschools.org
www.nationalhealthyschoolsday.org

Additional Resources Available from Healthy Schools Network, Inc.-

School Renovation and Construction
School Health and Safety Committees
Asthma and Environment Factsheet
Protecting Vulnerable Children in “Sick” Schools
Guide to Green Cleaning
Kick the Pesticide Habit
Molds at Schools
Daylighting
Healthy Kids/Healthy Schools/ABCs and National Technical Supplement