

What Asthma Suffers Should Know

According to the *American College of Allergies*, **50% of all illness** is aggravated or caused by polluted indoor air.

The Environmental Protection Agency (EPA) themselves declare that indoor air is anywhere from **2 to 10 times more hazardous than outdoor air**.

The EPA also warns us that the indoor air quality is the United States' **number one environmental health problem**.

Today's **homes and buildings are built "air-tight"**, and contain a long list of pollution sources. As a **result, natural air-cleansing agents** and negative ions are kept out, while contaminants are kept in. Here in Florida we tend to keep the doors and windows closed and the air conditioner on, thereby re-circulating the contaminants and pollutants.

A recent study found that the **allergen level in super-insulated homes is 200% higher** than it is in ordinary homes.

According to Scientific America, a baby crawling on the floor inhales the **equivalent of 4 cigarettes a day**, as a result of the out-gassing of carpets, molds, mildews, fungi, dust mites, etc.

Most people **spend well over 90% of their time indoors**. in which case, indoor air is going to impact our health far more than outdoor air.

The EPA informs us that **6 out of 10 homes and buildings are "sick"**, meaning they are hazardous to your health to occupy as a result of airborne pollutants.

Other Interesting Facts Related to Indoor Air Quality

Asthma cases have **increased by more than 100%** since 1976.

About **1 in 9 children** now have asthma.

Death rates due to asthma have tripled, and quintupled in children ages 5 to 9, since 1976.

Hospitalization rates and doctor visits are still continuing to increase dramatically.

Common Sources of Indoor Air Pollution in your Home or Building

People. About 80% of what you see floating in a ray of sunshine entering your home is dead human skin flakes. And remember, we can only see about 10% of the airborne pollutants. Dead human skin is a staple of the dust mite diet. Negative ions remove dead skin from the air, which also removes a host of dust mites and other bacteria from the air you breathe. O³ Wizard destroys many of the bacteria that reside on these flakes.

Dust. About 40 pounds of dust is generated per 1,500 square feet every year. Each speck of dust carries about 40,000 dust mites and other illness-causing bacteria and viruses. Negative ions also remove dust particles from the air, which also removes the contaminants residing on them. But, O³ Wizard destroys the microorganisms carried by dust.

Allergens. Pollens, ragweed, and a variety of other allergens find their way into the home from outdoors.

Carpet, Plywood, and other Construction Materials. The "new" smell associated with new carpet, newly painted walls, new home, remodeled room, etc. is actually the out-gassing of the chemical solutions used to treat these products. Wood floors are better for your health than carpet, but carpet is much more affordable. O³ Wizard oxidizes these chemical fumes so they are no longer toxic.

Mattresses and Furnishings. Treated with fire retardants and other

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chemicals, which add to the chemical vapors we breathe inside. Chemicals are oxidized by O³ Wizard's sanitization process.

Pillows and Blankets. Dust mites comprise over 50% of the weight of the average pillow.

HVAC Systems. Air ducts serve as a fertile breeding ground for mold spores.

Household Cleaners/Aerosols, Insecticides, Pesticides. We literally poison the air we breathe with chemical fumes and toxins when we use these products.

Moist things or humid environments. Mold spores, bacteria, and mildew thrive in dampened towels, wash cloths, and moist or humid areas. **O³ Wizard destroys molds and bacteria**, while negative ions remove floating mold spores from the air. Children in homes with high mold show persistent, cold-like symptoms - 300% more than average.

Pets. Airborne animal and/or pet dander (dried spit from the animal that breaks off the end of their hair and floats in air since they are so small) is a common trigger for allergies and asthma. Plus, the feces from your pet emits added contaminants into the air.

Insects and other Bugs. Insects and bugs feces is a powerful allergen. In a recent extensive study by the New England Journal of Medicine, more than half the homes tested had high levels of cockroaches. Children living in these homes were more than three times as likely to be hospitalized for asthma.

Smoking. Smoking in the home or vehicle leaves the air being breathed dense with over 3600 cancer-causing toxins. These toxins also cling to the clothing we wear, and release themselves when we enter other homes and buildings.

Vehicles. Recent studies show that most people face their worst exposure to polluted air while inside their vehicle. Pollen builds up in your vehicle's a/c system. Plus, exhaust and gasoline fumes easily enter your vehicle.

Based on studies by the Environmental Protection Agency

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(EPA), billions of dollars are spent annually for medication to help Americans breathe or cure their respiratory illnesses. Eleven million Americans have asthma. Twenty-eight million have hay fever and other allergies. Physicians are now discovering that the solution to the problems of many of these people is not in medicine, **but in reducing the pollutants in the air they breathe.**

Every year at least 6,000 new chemical compounds are developed. Many are used indoors every day, at home and at work. Add to these pollutants the mold, mildew, bacteria, viruses, tobacco smoke, grease, pollen, dirt, asbestos, lead and numerous other contaminants that can affect our breathing and our health. Then allow them to circulate in today's nearly airtight indoor environment. No wonder our indoor air is, on average, two to ten times as polluted as the worst outdoor air.

Viruses and bacteria that thrive in the ducts, coils, and recesses of building ventilation systems have been proven to cause ailments ranging from influenza to tuberculosis. Some HVAC systems have been found to contain up to 27 species of fungi.

Based on information given at the First Annual Air Quality convention sponsored by EPA, April 1992, Tampa, Florida:

- **40% of all buildings pose a serious health hazard** due to indoor air pollution, according to the World Health Organization.
- **EPA estimates an 18% annual production loss** to American business due to poor indoor air quality.
- **20% of all employees have a major illness** related to indoor air pollution such as allergies, asthma, auto-immune diseases, etc.
- **EPA says high levels of formaldehyde cause cancer**
- **Scientists now recognize that pollutants, even at acceptable concentration, combined together in an indoor environment have a synergistic negative effect.**

Indoor Air Quality

The air we breathe is made up of mostly oxygen and nitrogen. O³ Wizard's sanitization process is made from common oxygen through the use of an Ultra Violet Light (UV) - like the sun. This method breaks the two oxygen (O₂) atoms apart. These oxygen atoms are extremely reactive. When this highly reactive O₃ molecule floats in the environment it actively seeks out pollutant molecules. One of the atoms from the O₃ molecule will attach itself to the pollutant molecule and destroy it.

This highly reactive quality is why it is such a powerful and efficient cleaner and purifier. It will react with almost anything, including chemical sources of unpleasant or hazardous indoor odors. Bacteria, mold and mildew, pet odors, many cooking odors, etc., are destroyed when they react with this trivalent molecule. Like chemical pollutants, the membranes or shells of bacteria contain unsaturated molecules, which are also destroyed in this sanitization process. Without its protective membrane or shell, the bacterium dies, leaving only oxygen. The same applies to viruses and fungi.

One of the most important features of this process is that it has a "half-life" of approximately 20-30 minutes, and then the air in the treated area **returns to oxygen**, depending on temperature, humidity and the amount of contaminants in the air or on surfaces that have been counteracted. In other words, strong odors or pollutants will take longer to be destroyed and light odors will require less time. If sanitization process cannot find a contaminant to work on, it simply reverts to oxygen.

O³ Wizard and CONTAMINANTS

O³ Wizard Sanitization Technology can be effective against:

Chemicals	Combustion	Germs	Odors
Cooking Odors	Garbage Odors	Menthol	Onions
Hospital Odors	Sewer Gases	Asphalt Fumes	Butane
Aged Manuscripts	Cigarette Smoke	Exhaust Fumes	Food Odors
Creosote	Garlic	Mildew	Paint Odors
Industrial Wastes	Toluene	Bacteria	Poultry Odors
Dead Animals	Gasoline	Fecal Odors	Carbon Monoxide
Kerosene	Viruses	Mold	Fungi
Algae	Acrylic Acid	Bathroom Smells	Propane
Decaying Odors	Formaldehyde	Fertilizer	Tetrachloride
Lactic Acid	Adhesive Gases	Moth Balls	Furniture Odors
Ammonia	Coal Smoke	Benzene	Rancid Oils
Diesel Fumes	Carbolic Acid	Fire Odors	Carpet Odors
Lubricating Oils	Alcohol	Naphtha	Gangrene
Animal Odors	Ethyl Alcohol	Body Odor	Resins
Ether	Anesthetics	Fish Odors	Charred Materials
Medicinal Odors	Flood Odors	Nicotine	Burned Food Odors

This is a short list of the things that O³ Wizard's Sanitization can effect.

Negative Ions Pollutants and Health

Ionization or negative ion generation is often referred to as the "thunderstorm effect". It is well known that prior to a thunderstorm, animals and even many humans feel nervous, jittery and irritable; however, after the storm there seems to be **a feeling of calm.** Both animals and humans experience this phenomena. Most people cannot explain this renewed sense of well-being. However, there is a logical explanation. All of this is due to the amount of negative ions in the air around us. Prior to a thunderstorm there is a very high concentration of positive ions in the air. These tend to be pollutants such as dust, bacteria, pollen, chemicals, etc. The storm releases electrical discharges consisting of high concentrations of negative ions. **Negative ions destroy many of these air pollutants and, therefore, give us a sense of well being.** When relatively too many positive ions are present in the air before a storm, the positive charge is transferred in the air you breathe from your lungs to the blood, **causing the blood platelets to release a hormone that quite strongly affects your moods, your joints, and other**

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physiological functions in your body.

Ions are floating in the air around us all the time and have either negative or positive charges on them. Changes in their concentration, or in the ratio of positively to negatively charged molecules can have **remarkable effects on plants and animals**. It is known in science that ion depletion is the source of a wide range of human health problems, both mental and physical. Air ions are important to you because if there is a high proportion of negative ions **you will feel lively, uplifted, and enthusiastic**. Too many positive ions will have you feeling depressed, lethargic and full of aches, pains and complaints. **In general, exposure to negatively ionized air has been shown to increase oxygenation of the lungs, vital capacity. All types of beneficial responses take place as a result of these friendly ions.**

Fortunately through modern technology it is possible to control the electrical state of our indoor environments by generating negative ions back in the air. These negative ions attach themselves to airborne toxins and drop them to a surface. Ions basically taking out the larger pollutants in the air. For example, **O³ Wizard** will take the smell of smoke out of the room and neutralize the chemicals, but will not remove the smoke itself. Negative ions take the smoke out.

Control the Mold (Periodic Sanitization)

Economically / Efficiently / Effectively / Eco-friendly

O³ Wizard's Mold Prevention Policy

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For more information:

See our website www.o3wizard

or

Call – Kim Stevens, President

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