Better Breathing from Diet

Asthma medication sales were $15 billion in 2008 and projected to reach $17 billion by 2010 with an estimated 300 million people in Western societies suffering with breathing difficulties. Asthma is the active airway constriction (bronchospasm) component of a triad that makes up chronic obstructive pulmonary disease (COPD). Bronchitis is the inflammatory part of COPD and the end result of years of inflammation is emphysema (fibrosis or scarring).

Certainly our atmosphere is becoming more polluted with irritating chemicals and particles. And, of course, the first actions to take are to clean up your air by stopping smoking, avoiding dirty air, and using air purifiers. The other factor you potentially have complete control over is your diet, which I believe is the main cause of the escalating epidemic of lung diseases we are now experiencing.

An unhealthy diet will increase a person’s susceptibility to known causes of lung disease, such as allergens, tobacco smoke, infectious agents, and air pollution. One of the best examples of the importance of diet and lung health is demonstrated by the low incidence of lung cancer among Japanese cigarette smokers. The risk of lung cancer in the United States is at least 10 times higher than in Japanese living in Japan despite the higher percentage of smokers among the Japanese.¹ Smokers of Japanese descent living in the US have the same incidence of lung cancer as do the rest of Americans. These findings point to the importance of the differences in the diets followed in Japan and the US. The starch-based (rice and vegetable) diet followed by most Japanese smokers allows the body to defend and repair the damages from smoked tobacco far more effectively than does a diet of fat and protein (meat and dairy products); the American diet.

Many large population studies have shown that people who eat healthier diets, meaning more vegetables and fewer animal foods, have less lung disease.²⁻⁶ One study of 52,325 participants found that individuals whose diets are rich in meat reported new onset of persistent coughs with phlegm 43 percent more often than those who consume a diet high in fruit.²

How Diet Effects Lung Function

There are several important ways a healthier diet will help people, with and without COPD, breathe better. Fortunately, all of these mechanisms are tied together and answered by a low-fat starch-based
People Are Too Fat to Breathe

Obese women have a 50 percent higher rate of asthma compared to non-obese women. The reduction in lung function is largely due to the body fat that builds up inside the abdomen and pushes up against the main breathing muscle, the diaphragm, and thereby restricting the capacity of the lungs to expand. Lung function improves following weight loss in obese people. The best way to lose weight permanently is with the starch-based McDougall diet. Exercise also encourages weight loss. The benefits to lung function are from the lost weight, not the aerobic exercise.

Acid Reflux Burns the Lungs

Complications from acid reflux, also known as gastrointestinal reflux disease (GERD), include asthma and COPD. When the acid from the stomach refluxes up into the mouth and is inhaled into the lungs, serious inflammation results. Inhaled into the bronchial (airway) tubes the acid burns the tissues, producing constriction, swelling, and mucus. Somewhere between 34 percent and 89 percent of asthmatics have GERD. Seventy-five percent of children with asthma have GERD. Patients with asthma caused by GERD commonly complain of heartburn, regurgitation, and difficulty swallowing. (But not always. Many people have important reflux with no symptoms.) Their asthma is worsened by meals and when lying down, or sleeping. Treatment with a healthy diet that reduces the chances of reflux, raising the head of the bed by four to six inches helps too, and as a last resort, antacids, will relieve asthma and many other breathing problems, and reduce the need for asthma medications.

Pulmonary Circulation Is Impaired By Fats and Oils

Blood cells within the blood vessels flow freely and bounce off one another prior to a high-fat
meal. Approximately one hour after a fatty meal, the cells begin to stick together upon contact and form clumps. As this clump formation progresses, the flow of blood slows. Six hours after the meal, the clumping becomes so severe that the blood flow actually stops in many small vessels. Several hours later the clumps break up and the blood flow returns to the tissues. As a result of these changes, the oxygen content of the blood decreases by 20 percent.\textsuperscript{11} The consequence of this impaired circulation can be angina, impaired brain function, high blood pressure, fatigue, as well as compromise of the function of the lungs.\textsuperscript{12}

Please note that the circulation is as severely impaired by vegetable oils as it is with animal fats.\textsuperscript{13,14} Again the right approach to help the lungs function is to follow the low-fat McDougall diet.

**Inflammation of Airways Caused By Diet**

Although highly controversial, there has been much written about foods causing allergic reactions that lead to spasms of the airways, mucus production, and difficulty breathing. Over sixty years ago research suggested that a variety of foods could contribute to asthma and found that in asthma patients symptoms often improved with an exclusion diet.\textsuperscript{15}

Just this month (May 2010) it was reported at the American Thoracic Society meeting in New Orleans that individuals with asthma who consumed a high-fat meal showed increased airway inflammation just hours after their binge. The high-fat meal also appeared to inhibit the response to their asthma medication, such as Ventolin (albuterol).\textsuperscript{16}

**Steps To Take for Better Breathing**

Cleaning up the air around you by quitting smoking and using air purifiers is an obvious first step.

Next, switch to a diet based on starches with the addition of fruits and vegetables. This will immediately reduce gastrointestinal reflux and start you on a course of losing excess weight. There are some modifications to the basic diet that will additionally help to quiet the stomach. Cooked vegetables are much better tolerated than raw. Onions, green peppers, radishes, and cucumbers are notorious for causing indigestion, but when cooked many people no longer notice upset. Fruits juices (grapefruit, orange, etc.) frequently cause indigestion and contribute to reflux. The whole fruit is rarely troublesome. Many people need to avoid hot spices.

Raising the head of the bed by four to six inches with blocks (like a 4X4 or a brick) is an often overlooked, but highly effective, method of utilizing gravity to keep acid out of the throat and lungs, and in the stomach where it belongs. The final step to take to reduce acid reflux (GERD) is potent acid-suppressing agents called proton pump inhibitors, but these do have significant costs and side effects.
I believe dairy proteins are the most likely offenders when it comes to the allergic component of asthma, and egg proteins may be second. However, some plant foods may be troublesome too. People often talk about wheat and other grains, maybe corn, as mucous-forming. Keep a diary and try to notice foods that trouble you. The best, but most difficult, way to find offending foods is to follow the elimination diet. This diet is based on rice and sweet potatoes as the primary starches with the addition of non-citrus fruits and green and yellow vegetables. Everything is cooked thoroughly. Water is the beverage. Because of the extra restrictions, this is a very effective weight loss diet too. (People not wanting to lose weight will find suggestions on increasing calorie intake in my July 2003 newsletter).

If you are having problems breathing do not overlook the cost-free, side effect-free approach of a starch-based diet.

References:


