Oxygen and Cancer:

Low Oxygen Levels Breed Cancer...

Increasing Cellular Oxygen Levels Kills Cancerous Cells

The link between oxygen and cancer is clear. In fact an underlying cause of cancer is low cellular oxygenation levels. In newly formed cells, low levels of oxygen damage respiration enzymes so that they cells cannot produce energy using oxygen. These cells can then turn cancerous.

In 1931 Dr. Warburg won his first Nobel Prize for proving cancer is caused by a lack of oxygen respiration in cells. He stated in an article titled *The Prime Cause and Prevention of Cancer* that "the cause of cancer is no longer a mystery, we know it occurs whenever any cell is denied 60% of its oxygen requirements."

"Cancer, above all other diseases, has countless secondary causes. But, even for cancer, there is only one prime cause. Summarized in a few words, the prime cause of cancer is the replacement of the respiration of oxygen in normal body cells by a fermentation of sugar. All normal body cells meet their energy needs by respiration of oxygen, whereas cancer cells meet their energy needs in great part by fermentation. All normal body cells are thus obligate aerobes, whereas all cancer cells are partial anaerobes."

Poor oxygenation comes from a buildup of carcinogens and other toxins within and around cells, which blocks and then damages the cellular oxygen respiration mechanism. Clumping up of red blood cells slows down the bloodstream, and restricts flow into capillaries. This also causes poor oxygenation. Even lack of the proper building blocks for cell walls, Omega 3 essential fatty acids, restricts oxygen exchange.

What Warburg and other scientists found was that respiratory enzymes in cells, which make energy aerobically using oxygen, die when cellular oxygen levels drop.

When they die, that cell can no longer produce all its energy using oxygen. So, if the cell is to live, it must, at least partially, ferment sugar to produce energy with the need for the respiratory enzymes. For a short period of time, like when running a race, this anaerobic fermentation of sugar is okay. Your legs build up lactic acid from this fermentation process and burn, and you stop running. Then your cells recover and produce energy using oxygen. However the problem comes when your cells cannot produce energy using oxygen because of this damage to the respiratory enzymes. Then they must produce energy primarily by fermentation most of the time. This is what can cause a cell to turn cancerous.

According to Warburg, cells that produce energy by fermenting sugars may turn cancerous. Warburg's contention is this...

The cells that cannot produce energy aerobically, cannot produce enough energy to maintain their ability to function properly. So they lose their ability to do whatever they need to do in the body.
Fermentation allows these cells to survive, but they can no longer perform any functions in the body or communicate effectively with the body. Consequently, these cells can only multiply and grow. And may become cancerous. Or perhaps it would be more accurate to say, they degrade into cancer cells that no longer serve your body, but live to survive...

Decades ago, two researchers at the National Cancer Institute, Dean Burn and Mark Woods, (Dean translated some of Warburg's speeches) conducted a series of experiments where they measured the fermentation rate of cancers that grew at different speeds. What they found supported Dr. Warburg's theory.

The cancers with the highest growth rates had the highest fermentation rates. The slower a cancer grew, the less it used fermentation to produce energy.

Naturally Warburg's contention about oxygen and cancer was challenged and tested by other scientists.

Some researchers claimed his theory was not valid after they had measured a particularly slow growing cancer, and found no fermentation at all. And if cancer could grow with no fermentation, then fermentation, or lack of oxygen respiration, was not the cause of cancer. Dean Burn and Mark Woods checked those results.

Using more sophisticated equipment, they determined that the equipment these researchers used to measure fermentation levels was not accurate enough to detect fermentation at low levels. Their testing, using newer and more accurate equipment, showed that even in those very slow growing cancer cells, fermentation was still taking place, at very low levels.

Pietro Gullino, also at the National Cancer Institute, devised a test which showed that this slow growing cancer always produced fermentation lactic acid. Silvio Fiala, a biochemist from the University of Southern California, also confirmed that this slow growing cancer produced lactic acid, and that it's oxygen respiration was reduced.

Further research into Warburg's theory showed that when oxygen levels were turned down, cells began to produce energy anaerobically. They ultimately became cancerous when levels went low enough. It took a reduction of 35% in oxygen levels for this to happen.

J. B. Kizer, a biochemist and physicist at Gungnir Research in Portsmith, Ohio explains, "Since Warburg's discovery, this difference in respiration has remained the most fundamental (and some say, only) physiological difference consistently found between normal and cancer cells. Using cell culture studies, I decided to examine the differential responses of normal and cancer cells to changes in the oxygen environment.

"The results that I found were rather remarkable. I found that... "High 02 tensions were lethal to cancer tissue, 95 percent being very toxic, whereas in general, normal tissues were not harmed by high oxygen tensions. Indeed, some normal tissues were found to require high 02 tensions. It does seem to demonstrate the possibility that if the 02 tensions in cancer tissues can be elevated, then the cancer tissue may be able to be killed selectively, as it seems that the cancer cells are incapable of handling the 02 in a high 02 environment."

Low oxygen levels in cells may be a fundamental cause of cancer. There are several reasons cells become poorly oxygenated. An overload of toxins clogging up the cells, poor quality cell walls that don't allow nutrients into the cells, the lack of
nutrients needed for respiration, poor circulation and perhaps even low levels of oxygen in the air we breathe.

Cancer cells produce excess lactic acid as they ferment energy. Lactic acid is toxic, and tends to prevent the transport of oxygen into neighboring normal cells. Over time as these cells replicate, the cancer may spread if not destroyed by the immune system.

Chemotherapy and radiation are used because cancer cells are weaker than normal cells and therefore may die first.

However, chemo and radiation damage respiratory enzymes in healthy cells, and overload them with toxins, so they become more likely to develop into cancer. The underlying cancer causing conditions are worsened, not improved. And the cancer usually returns quickly a second time unless you make changes to support the health of your body.

The implication of this research is that an effective way to support the body’s fight against cancer would be to get as much oxygen as you can into healthy cells, and improving their ability to utilize oxygen. Raising the oxygen levels of normal cells would help prevent them from becoming cancerous.

And increasing oxygen levels in cancer cells to high levels could help kill those cancer cells.

A nurse who works in medical research said, "It’s so simple. I don’t know why I never thought of it before. When we’re working with cell cultures in the lab, if we want the cells to mutate, we turn down the oxygen. To stop them, we turn the oxygen back up."

Ma Lan, MD and Joel Wallach DVD, point out that one type of white blood cells kills cancer cells by injecting oxygen creating hydrogen peroxide into the cells.

It is not easy to get additional oxygen into cells. Most approaches don't work well. Breathing oxygen is still limited by the amount of hemoglobin available, and pH levels. Dr. Whittaker points out, quite rightly, that liquid oxygen supplements that release oxygen into the blood, which most of them only do, can’t get oxygen into the cells.

He explains that a delivery mechanism is needed to transport oxygen into cells. And though the typical oxygen supplement gets oxygen into the blood, that doesn’t mean it gets into the cells.

CELLFOOD is a proprietary ionic formula that contains 78 ionic minerals, 34 enzymes, 17 amino acids, electrolytes and dissolved oxygen—and utilises a unique water-splitting technology. It may provide an unsurpassed oxygen and nutrient delivery system, may be absorbed quickly and efficiently by every cell in the body. Cellfood is made from all-natural plant substances, and is yeast-free and gluten-free.

What can Cellfood Original Concentrate do?
It was said by a well-known doctor that there is really only one disease known to mankind—though it has a thousand names. It's the disease of too many toxins in the body and too few nutrients reaching the cells. Cellfood provides valuable food based nutrition in a convenient liquid formula.

**How is Cellfood Original Concentrate created?**

Cellfood is created by a proprietary nine month process in which these all natural nutrient-rich plant substances are held in a negatively-charged suspension. The result is a remarkable formulation which—by utilizing the same technology used decades ago—actually 'dissociates' (splits) water molecules by weakening the bonding electrons, and gives birth to cascades of vital, life-giving oxygen. This newly-born oxygen, combined with an array of vital nutrients, is carried to every cell in the body—hour after hour, day after day. Since our bodies are over two-thirds water, this oxygen and hydrogen source is virtually unlimited.

**How does Cellfood Original Concentrate work?**

When you mix Cellfood with water or juice and ingest it, its proprietary water-splitting action begins the moment you take the first sip. This cascading time release of oxygen typically peaks within 8-12 hours, and then keeps working hour after hour. And, its essential natural minerals, enzymes, amino acids and electrolytes are delivered simultaneously at the deepest level.

Cellfood is a miracle of electromagnetic design. Since Cellfood is colloidal and negatively charged—there is a natural synchronicity between body fluids. Cellfood’s vital nutrients may be absorbed and assimilated quickly and efficiently. And, Cellfood is a di-pole, di-base delivery system, helping deliver nutrients to the cells and tissues.

Therefore, **Cellfood** is exceptional as an overall delivery system not only for its own nutrients, but for increasing cell-absorption (by as much as 3-5 times) of any other nutrients or substances introduced within the same 24 hour period. Notably, there is no known toxicity associated with **Cellfood**.

Importantly, **Cellfood** won't create free radical damage. Free radicals—believed to be a primary cause of aging and disease—are positively charged ions of oxygen. Since **Cellfood**'s released oxygen molecules are negatively charged, they may seek out and attract these dangerous free radicals, joining with them to form stabilized oxygen.