

Dr. Otto Heinrich Warburg Nobel Prize Winner

The Root Cause of Cancer

<http://www.loreleimcbroom.com/otto-heinrich-doc.htm>

Biochemist Otto Heinrich Warburg, one of the twentieth century's leading cell biologists, discovered that the root cause of cancer is too much acidity in the body, meaning that the pH, potential hydrogen, in the body is below the normal level of 7.365, which constitutes an "acidic" state. Warburg investigated the metabolism of tumors and the respiration of cells and discovered that cancer cells maintain and thrive in a lower pH, as low as 6.0, due to lactic acid production and elevated CO₂.

He firmly believed that there was a direct relationship between pH and oxygen.

Higher pH, which is Alkaline, means higher concentration of oxygen molecules, while lower pH, which is acidic, means lower concentrations of oxygen...the same oxygen that is needed to maintain healthy cells.

In 1931 he was awarded the Nobel Prize in Medicine for this important discovery. Dr. Warburg was director of the Kaiser Wilhelm Institute (now Max Planck Institute) for cell physiology at Berlin. He investigated the metabolism of tumors and the respiration of cells, particularly cancer cells. Below are some direct quotes by Dr. Warburg during medical lectures where he was the keynote speaker: "Cancerous tissues are acidic, whereas healthy tissues are alkaline. Water splits into H⁺ and OH⁻ ions, if there is an excess of H⁺, it is acidic; if there is an excess of OH⁻ ions, then it is alkaline."

In his work "The Metabolism of Tumors" Warburg demonstrated that all forms of cancer are characterized by two basic conditions: acidosis and hypoxia (lack of oxygen). "Lack of oxygen and acidosis are two sides of the same coin: where you have one, you have the other."

The Prime Cause and Prevention of Cancer

All carcinogens impair respiration directly or indirectly by deranging capillary circulation, a statement that is proved by the fact that all cancer cells have respiration. Of course, respiration cannot be repaired if it is impaired at the same time by carcinogens. To prevent cancer it is therefore proposed first to keep the speed of the blood stream so high that the venous blood still contains sufficient oxygen; second, to keep high the concentration of hemoglobin in the blood; third to add always to the food, even of healthy people, the active groups of the respiratory enzymes; and to increase the doses of these groups if a pre-cancerous state has already developed. If at the same time exogenous carcinogens are excluded rigorously, then much of the endogenous cancer may be prevented.

These proposals are in no way Utopian. On the contrary, they may be realized by everybody, everywhere, at any hour.

Cancer, above all other diseases, has countless secondary causes. Almost anything can cause cancer. 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. Oxygen gas, the donor of energy in plants and animals is dethroned in the cancer cells and replaced by an energy yielding reaction of the lowest living forms, namely, a fermentation of glucose.

Quotes by Otto Warburg...

"All normal cells have an absolute requirement for oxygen, but cancer cells can live without oxygen - a rule without exception."

"Deprive a cell 35% of its oxygen for 48 hours and it may become cancerous."

Dr. Warburg has made it clear that the root cause of cancer is oxygen deficiency, which creates an acidic state in the human body. Dr. Warburg also discovered that **cancer cells** are anaerobic (do not breathe oxygen) and cannot survive in the presence of high levels of oxygen, as found in an alkaline state.