

The Prime Cause and Prevention of Cancer

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From the 1966 Lindau Nobel-Laureates Conference, Germany Presented by Otto Warburg, Nobel Prize-winner

What you are about to read may shock you. You may become upset to learn that this information has not been publicized. Professor Warburg's conclusions are virtually identical to the conclusions reached by today's science of *Life -Systems* Engineering. The text is technical, but the footnotes explain the logic and key issues.

But, even **for cancer, there is only one main 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**.¹

It has been shown if the **active groups** of the respiratory enzymes are **removed from food cells, respiration is impaired**; and that cell respiration **is repaired at once**, if these groups are **again added** to food."² Neither genetic codes of anaerobiosis nor cancer viruses are alternatives today, because no such codes and no such viruses in man have been discovered so far ...³

The first **active group** of an enzyme, 'Iron, the Oxygen-Transferring Part of the Respiratory Enzyme' was discovered in 1924.

Furthermore, the *very unexpected and fundamental fact* that tissue culture is *carcinogenic* [cancer-causing] and that a **too low oxygen pressure is the intrinsic (prime) cause** of cancer was discovered in the years 1927-1966.

Because no cancer cell exists, the respiration of which is intact, it **cannot be disputed that cancer could be prevented if the respiration of the body cells would be kept intact**. Today we know two methods to influence cell respiration.

The first is to **decrease the oxygen pressure** in growing cells.⁴ If it is so much decreased that the oxygen transferring **enzymes are no longer saturated with oxygen**, respiration can decrease **irreversibly** and **normal cells** can be **transformed** into facultative **anaerobes**.⁵ The second method to influence cell respiration in the body is to **add the active groups of the respiratory enzymes to the food** of man. **Lack** of these groups **impairs** cell respiration and **abundance repairs** impaired cell respiration.

To prevent cancer it is therefore proposed to keep the **speed of the blood stream**⁶ so high that the venous blood still contains sufficient oxygen; second, to keep high **concentrations of hemoglobin**⁷ in the blood; third to **add always to food**, even of healthy people, the **active groups of the respiratory**

¹ So, isn't it plausible that limiting sugar (carbohydrate) intake could reduce the risk of cancer?

² Minerals are critical to this enzyme function.

³ Analysis shows: it's **proteins, not genes, that count** — Reuters Science News, February 11, 2001.

1. "Both teams agree: it is proteins that matter—much more than genes."

2. "**Genes don't determine whether you get colon cancer** ..."

"Those who are looking for forgiveness of responsibility for their own lives in the genetic code will be very disappointed."

⁴ Healthy essential oils (basic essence) are Mother Nature's natural "oxygen magnets" before commercial food processing destroys them.

⁵ Once the damage is done, it *can't be repaired*. There is a "point of no return."

⁶ Healthy essential oils (basic essence, in particular the "parent" omega 6 component) perform this vital function.

⁷ From iron contained in meat, chicken, fish, etc.

enzymes;⁸ and to increase the doses of these groups, if a precancerous state has already developed. If at the same time exogenous **carcinogens**⁹ **are excluded** rigorously.

Cancer, above all other diseases, has countless secondary causes. But, even *for cancer*, there is **only one main 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 cells** meet their energy needs by the **respiration of oxygen**, whereas **cancer cells** meet their energy needs in great part by **fermentation**. From the standpoint of **chemistry and physics of life** this difference between **normal and cancer cells** is so great that **one can scarcely picture a greater difference**. *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 forms**, namely a **fermentation of glucose [sugar]**.¹⁰

... **cancer cells can actually grow in the body almost with only the energy of fermentation.**

In the mouse,¹¹ if one provides an oxygen pressure so reduced that the oxygen respiration is partially inhibited, the purely aerobic metabolism of the mouse embryonic cells is quantitatively altered in *48 hours* in the course of *two* cell divisions. If one increases to the original high oxygen pressure, and allows the cell to grow further, **the cancer metabolism remains, it's an irreversible process.**¹²

We find by experiment about **35% (about 1/3rd less) inhibition of oxygen respiration** already suffices to bring about such a transformation during cell growth.¹³

In any case, during the **cancer development the oxygen-respiration always falls, fermentation appears**, and the highly differentiated cells are transformed to fermenting aerobes, which have lost all their body functions and retain only the now useless property of growth.... *The meaning of life disappears.*¹⁴

The endproducts of fermentation are reached by one single reaction. On the other hand, the endproducts of the oxidation of pyruvic acid are only reached after many additional reactions. Therefore, when cells are harmed, it is probable that first respiration is harmed."¹⁵

Now, don't shoot me – I'm only the messenger. But you may want to shoot someone as you read on and realize that these anti-cancer medical articles have been published, but have been kept hidden from you! Here are just a few of the significant articles written between 1985 – 1999 stressing the *anti-cancer properties* of basic essence healthy essential oils:

Effect of essential fatty acids on natural cytotoxicity in patients with colorectal cancer

⁸ Minerals (often not contained in foods) and vitamins (still contained in food).

⁹ Cancer-causing food additives need to be avoided.

¹⁰ Cancer cells are "mindless breeding machines" with no internal logic and they LIVE ON SUGAR!

¹¹ *Life-Systems Engineering* teaches us to be wary of animal studies. In this case, direct human analogy is correct.

¹² It is of paramount importance that this irreversible transformation be prevented.

¹³ *Only 1/3rd less oxygen transfer to a cell causes irreversible CANCER!*

¹⁴ Cancer ALWAYS is manifested by non-use of oxygen.

¹⁵ Respiration is significantly more biochemically complicated than fermentation of sugar. Cancer simply prefers the easiest route because there is no "intelligence" of the cell anymore.

European Journal of Surgical Oncology (cancer) 1995 June;21(3):254-260

- “Essential fatty acids (**basic essence**) have been shown to **modulate [control]** lymphocyte reactivity and **destroy various cancer cells** in vitro (in a test tube).
- “... NK cell activity showed no significant change following 15 days ingestion of EFAs in the group with localized cancer, but was **significantly reduced** in the group with **advanced [cancer]** disease and **continued to decline reaching minimal levels following 6 months supplementation....**”
- “More importantly, the cytotoxicity of NK and LAK cells **returned to the pre-supplementation values, 3 months after cessation of EFA intake!**”¹⁶

Dietary deficiency or enrichment of essential fatty acids modulates [controls] tumorigenesis [tumorous cells] in the whole body of cobalt-60-irradiated mice

Prostaglandins Leukot Essential Fatty Acids 1997 March;56(3):239-244

- “It may be **concluded** that, when a tumor initiator injures the body as a whole, **EFAD (basic essence deficiency)** achieved either through a fat-free or oleic-supplemented (non-EFA, like olive oil) **behaves as a general promoting condition for tumorigenesis.**”¹⁷

Gamma linolenic acid regulates expression of maspin and the motility of cancer cells

Biochemistry and Biophysics Research Commun 1997 Aug 28;237(3):639-644

- “Maspin is a recently identified tumour suppressor and has a profound effect on cell motility.... It is **concluded that GLA**, a member of the omega 6 series EFAs [found in basic essence], up-regulates the expression of maspin which is **associated with a reduction in the motility (growth) of cancer cells [less cancer]**.”¹⁸

Is the risk of urinary tract tumorigenesis enhanced by a marginal chronic essential fatty acid deficiency (EFAD)?

Nutrition 1998 Feb;14(2):211-216

- “A **considerable amount** of experimental, clinical, and epidemiological **data** indicates that **dietary fats** play a role in **urinary tract tumorigenesis**.
- “...In other cell populations, EFAs [**basic essence**] are **beneficial as preventative and therapeutic** nutrients for **treatment of cancer.**”

Regulation of cell adhesion, a central mechanism in the anticancer action of essential fatty acids

International Journal of Medicine 1998 March;1(3):621-625

- “Certain members of **essential fatty acids (basic essence EFAs)** are **known to have anticancer functions**.
- “...**established** in recent years that some of these **anticancer properties** are via the effects of these **fatty acids** on the **adhesive properties of cancer cells**, including cell-cell and cell-matrix adhesions.
- “...EFAs [**basic essence**] as a group of novel (**unusual**) agents, able to **regulate adhesive function of cancer cells** and thus **bearing clinical importance.**”

Eicosatrienoic acid (20:3 n-9) inhibits the expression of E-cadherin and desmoglein in human squamous carcinoma in vitro

Prostaglandins Leukot Essential Fatty Acids 1998 December;59(6):371-377

¹⁶ In other words, the condition improved when EFAs were being taken and got worse when they were stopped.

¹⁷ In other words, a fat-free diet or one that replaces natural EFAs (basic essence) promotes the growth of tumors in mice. Since basic essence (EFAs) are required for humans, the animal/human analogy is appropriate.

¹⁸ In other words, GLA, which is made from the EFAs in your body, increases the effectiveness of this tumor-fighting medication.

- “Eicosatrienoic acid is **abnormally increased** by essential fatty acid [**basic essence deficiency**], a **condition** associated with **alterations of cell proliferation and differentiation.**”¹⁹

Dynamics of reactive oxygen intermediate production in human glioma: n-6 essential fatty acid effects

European Journal of Clinical Investigation 1999 March;29(3):220-223

- “Reactive oxygen intermediates (**ROIs**) are **important signals controlling cell growth and cell death**. Local **essential fatty acid** [EFA] **deficiencies in tumour cells** may **limit ROI generation**. This **deficiency** may be **rectified by addition** of exogenous **EFA** [**basic essence**].”
- “...The **stimulated** [by basic essence **EFAs**] ROI rate was exponential [**very significant**].”²⁰

Dietary fats and cancer

Medical Hypotheses 1985 August;17(4):351-362

- “The **mono-unsaturated** non-essential fatty acid oleic acid (OA) [primary fat in **olive oil**] has been shown to **stimulate malignant cell proliferation** in culture **significantly**.²¹ **In contrast**, the essential fatty acids [**EFAs**] and their derivatives have been **shown to have potent proliferation suppressive** [stops growth] effects on **malignant** [**cancerous**] **cells** in culture.”
- “It has been **repeatedly** demonstrated that EFAs and EFA metabolites **suppress proliferation of a wide range of malignant cells in culture.**”
- “...The evidence reviewed by committee suggests that cancers of most of the major sites are influenced by dietary pattern...is most suggestive for a causal relationship between fat intake and the occurrence of cancer.”

Can linoleic acid and gamma-linolenic acid be important in cancer treatment?

Medical Hypotheses 1994 December;43(6):415-417

- “...**Addition of LA and GLA** [**basic essence**] to available therapeutic regimens may be **worth considering in cancer treatment.**”

Life-Systems Engineering analysis: As early as 1985 it has been published in the world’s leading medical journals that a significant nutritional deficiency significantly increases the odds of contracting cancer. It was published in 2001 that cancer has little genetic basis, but few listened. Nobel Prize-winning Professor Otto Warburg’s work (and warning) of 1966 has proven itself 100%. **Why have you not been told of this easy solution to prevent cancer?**

¹⁹ These changes are associated with cancer!

²⁰ In other words, EFA supplements can decrease cancer propagation.

²¹ Anyone telling you that olive oil contains significant amounts of basic essence (EFAs) is mistaken.