

Anti Ageing Conference
London 2011
www.antiageingconference.com

Stemming the Tide of Cancer

with
Dr. Garry F. Gordon MD, DO, MD(H)
Gordon Research Institute

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Science
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Bringing news and analysis from the world of science policy

Preventable Chronic Diseases Are Now the World's Biggest Killers

by Sara Reardon
27 April 2011, 2:55 PM

"WHO Assistant Director-General Ala Alwan cited a World Bank report that found half of families who have a family member with cancer spend more than 30% of their income on treatment, driving 50% of these families below the poverty line as a result".

The chronic health problems of post-industrial societies have now spread to the developing world, says a new report by the World Health Organization.

Diabetes, heart disease, and cancer now cause more deaths worldwide than all other diseases combined, according to the first global status report on noncommunicable diseases (NCDs) released at the WHO Global Forum in Moscow today.

<http://news.sciencemag.org/scienceinsider/2011/04/preventable-chronic-diseases.html>

Navy researcher links toxins in war-zone dust to ailments

by Kelly Kennedy – May 12, 2011

U.S. Military Morbidity [2001-2009]

30% ↑ Cardiovascular Disease
32% ↑ Respiratory Issues

U.S. troops in Iraq, Afghanistan and Kuwait have inhaled microscopic dust particles laden with toxic metals, bacteria and fungi—a toxic stew that may explain everything from the undiagnosed Gulf War Syndrome symptoms lingering from the 1991 war against Iraq to high rates of respiratory, neurological and heart ailments encountered in the current wars, scientists say.

Lyles and other researchers found that dust particles—up to 1,000 of which can sit on the head of a pin—gathered in Iraq and Kuwait contain 37 metals, including aluminum, lead, manganese, strontium and tin. The metals have been linked to neurological disorders, cancer, respiratory ailments, depression and heart disease, according to the Environmental Protection Agency. Researchers believe the metals occur both naturally and as a byproduct of pollution.

Are these toxins geographically confined?

DISCOVER April 2011 – Environment/Pollution – by David Kirby

Made in China: Our Toxic, Imported Air Pollution

Mercury, sulfates, ozone, black carbon, flu-faced desert dust. Even as America tightens emission standards, the fast-growing economies of Asia are filling the air with hazardous components that circumnavigate the globe.

It is estimated that Asia is churning out 1,400 tons of Mercury emissions a year, and take as little as four days to reach North America.

Mercury plumes can wobble in latitude and altitude or park themselves in one spot for days on end. Emissions from China—and from the United States, and indeed from every industrial country—feed a network of air currents that, as equal-opportunity polluters, serve up toxic mercury around the world.

The Environmental Working Group studies that have shown:

- 134 chemicals are shown to cause CANCER
- 151 chemicals cause BIRTH DEFECTS
- 154 are HORMONE DISRUPTORS
- 186 chemicals contribute to INFERTILITY
- 130 chemicals cause IMMUNE SYSTEM TOXICITY
- 158 chemicals are NEUROTOXINS
- Autism now 1 in every 150 children.
- 57% increase in childhood brain cancer.
- 84% increase in acute lymphocytic leukemia in children (1975 – 2002)
- About 7.3 million American couples have trouble becoming pregnant, or carrying to term, a 20% increase in the last 10 years. Sperm count decrease one percent every year.

"The combined evidence suggests that neurodevelopmental disorders caused by industrial chemicals has created a silent pandemic in modern society." – Lancet, November 8, 2008.

WATCH THE VIDEO: <http://video.yahoo.com/watch/6431545/16676271>

Toxic and Heavy Metal Exposure Early in Life May Promote Disease Later in Life Via Epigenetics

Metals and Neurotoxicology. J. of Nutr. 138,12,2007. Wright, RO, et al.

Minerals are necessary for normal cellular, metabolic and neurological function. It is well known that nutrient mineral deficiency can impair neurological development. Iron deficiency is a good example. However, it is also known that iron excess can also impair neurological development. Some transitional nutrients can cause later-life health disturbances when deficient in the diet, but in excess can be just as harmful. These include iron, copper, manganese and zinc as well as others. Heavy metals such as lead, cadmium, mercury, and arsenic are also neurotoxins and when present early in life can contribute to impaired neurodevelopment and detrimental health effects later in life and have been called the "fetal origins of disease." Suggesting that early environmental metal exposure can program later life gene expression, or fetal programming. The mechanism for this phenomenon is termed epigenetics. Epigenetics is the study of heritable changes in gene expression that occur without changes in DNA sequence, that unlike mutations, are reversible and responsive to environmental influences. DNA methylation is the most studied of the epigenetic process that regulated gene silencing.

Quinoto Marine Plasma works similarly to Methylation Therapy with MSM, TMG and ACTIVE Folic Acid, B-6 and Sublingual B12 to undo the epigenetic changes that exposure to toxins like Bisphenol A are producing in our population. It is obvious that there is nothing in the world to offer this level of ULTRA TRACE MINERAL DEFLECTION.

- Dr. Garry F. Gordon, MD, DO, MD(H)

Genetic Roulette
GM Crops trigger Immune Reactions and may cause allergies

Soon after GM soy was introduced into the British diet, researchers at the York Laboratory reported that allergies to soy had sky rocketed by 50% in a single year.

GM soy also produces an unpredicted side effect in the pancreas of mice the amount of digestive enzymes produced is dramatically reduced. If a shortage of enzymes caused food proteins to breakdown more slowly, then they have more time to trigger allergic reactions. Thus, digestive problems from GM soy might promote allergies to a wide range of proteins, not just soy.

Mice fed potatoes engineered to produce the Bt toxin developed abnormal and damaged cells.
Rats fed potatoes engineered to produce a different type of insecticide (GNA lectin from the snowdrop plant) also showed proliferative cell growth in both the stomach and intestinal walls.

Originally published in Science Express on 8 October 2009
Science 23 October 2009
Vol. 326, no. 5922, pp. 585–589
DOI: 10.1126/science.1179052

Detection of an Infectious Retrovirus, XMRV, in Blood Cells of Patients with Chronic Fatigue Syndrome

Wessely G, Goldacre J, Horowitz B, Hargrett-Scott N, Doherty D, Jones M, A. Plot, Hargrett S, Higgins J, Doherty J, Peterson I, Sander K, Razzouk A, Rastner K, Bugh JS, Carl Patrice-Schubert M, Bert Gold J, Michael Dean J, Robert H. Silverman, J. Judy A. Mikolajczyk

Chronic fatigue syndrome (CFS) is a debilitating disease of unknown etiology that is estimated to affect 17 million people worldwide. Studying peripheral blood mononuclear cells (PBMCs) from CFS patients, we identified DNA from a human gammaretrovirus, xenotropic murine leukemia virus-related virus (XMRV), in 68 of 101 patients (67%) as compared to 8 of 218 (3.7%) healthy controls.

Cell culture experiments revealed that patient-derived XMRV is infectious and that both cell-associated and cell-free transmission of the virus are possible. Secondary viral infections were established in uninfected primary lymphocytes and indicator cell lines after their exposure to activated PBMCs, B cells, T cells, or plasma derived from CFS patients. These findings raise the possibility that XMRV may be a contributing factor in the pathogenesis of CFS.

<http://www.sciencemag.org/cgi/content/abstract/1179052>

Cytomegalovirus (CMV) May Cause High Blood Pressure

A new study suggests for the first time that cytomegalovirus (CMV), a common viral infection affecting between 60 and 90 percent of adults worldwide, is a cause of high blood pressure, a leading risk factor for heart disease, stroke and kidney disease.

- When coupled with other risk factors for heart disease, the virus can lead to the development of atherosclerosis, or hardening of the arteries.
- By the age of 40, most adults will have contracted the virus, though many will never exhibit symptoms. Once it has entered the body, CMV is usually there to stay, remaining latent until the immune system is compromised, when it then reemerges.
- This may eventually lead doctors to treating hypertension with anti-viral therapies or vaccines as part of the prescription.

<http://www.news-medical.net/news/2009/05/15/Cytomegalovirus-may-cause-high-blood-pressure.aspx>

TheScientist.com

Viral cause for prostate cancer?

Prostate cancer is increasingly looking like an infectious disease, a new study shows, and may be sexually transmitted.

Mounting evidence suggests that prostate cancer is an infectious disease caused by a recently identified virus. The latest report, published today (September 7) in the *Proceedings of the National Academy of Sciences*, found the virus was associated especially with aggressive prostate cancers and noted that "all individuals may be at risk" for infection.

The notion that prostate cancer is an infectious disease like cervical cancer would not surprise most cancer experts, said Dr. Singh of the University of Utah, the study's senior author. Almost 20% of visceral cancers are now proven infectious diseases, and there is a lot of indirect evidence from epidemiology and genetics that prostate cancer may be one of them.

The suspect is xenotropic murine leukemia-related virus (XMRV), a gammaretrovirus similar to viruses known to cause cancer in animals. Researchers at Columbia University and the University of Utah found the virus in more than a quarter of some 300 prostate cancer tissue samples, especially in malignant cells. That prostate cancer is a viral disease is not yet proven, but this is the third independent confirmation that XMRV infects prostate tissue.

http://www.the-scientist.com/templates/trackable/displaynews.jsp?typenews=50_urlnewsidisplay/59565&id=59566

USA TODAY News • Health & Behavior

Cancer, environment and lifestyle

October 4th, 2010

Breast Cancer Culprits: Are Common Chemicals to Blame?

People are exposed to a countless mix of chemicals over a lifetime. Since cancers usually take decades to develop, it can be hard to make clear connections.

A growing number of scientists are particularly concerned about chemicals that alter natural hormonal systems. These chemicals don't need to cause genetic mutations to cause breast cancer, says Janet Gray, a professor at New York's Vassar College.

“Toxins could increase the number of new cancers by pushing girls into early puberty — a known risk factor for breast tumors,” Gray says. Such “hormone-disrupting” chemicals are everywhere — plastics, pesticides, even perfumes.

“We believe there’s enough science to act now,” says Janet Nudelman of the Breast Cancer Fund.

http://www.usatoday.com/story/health/health/breastcancer/2010-10-04/breastcancerenv/404_31.htm

Review

Nature Reviews Cardiology 7, 510-519 (September 2010) | doi:10.1038/nrcardio.2010.104

Epigenetics and cardiovascular disease

José M. Ordovas & Caren E. Smith

Despite advances in the prevention and management of cardiovascular disease (CVD), this group of multifactorial disorders remains a leading cause of mortality worldwide. CVD is associated with multiple genetic and modifiable risk factors; however, known environmental and genetic influences can only explain a small part of the variability in CVD risk, which is a major obstacle for its prevention and treatment. A more thorough understanding of the factors that contribute to CVD is, therefore, needed to develop more efficacious and cost-effective therapy. Application of the “omics” technologies will hopefully make these advances a reality. Epigenomics has emerged as one of the most promising areas that will address some of the gaps in our current knowledge of the interaction between nature and nurture in the development of CVD. Epigenetic mechanisms include DNA methylation, histone modification, and microRNA alterations, which collectively enable the cell to respond quickly to environmental changes. A number of CVD risk factors, such as nutrition, smoking, pollution, stress, and the circadian rhythm, have been associated with modification of epigenetic marks. Further examination of these mechanisms may lead to earlier prevention and novel therapy for CVD.

<http://www.nature.com/nrcardio/journal/v7/n9/abs/nrcardio.2010.104.html>

MOST CANCER is entirely preventable, and conventional treatment today is barely better than 30 years ago. See what the cost of **CANCER** and other non-communicable chronic diseases are doing world-wide to families...

The Burzynski Movie Award-Winning Film About The Most Effective Targeted Cancer Treatment, Ever: **Antineoplastons**

the AMERICAN CONSUMER
\$90 BILLION DOLLARS PER YEAR ON CANCER TREATMENTS.

<http://www.burzynskimovie.com/>

Cancer drugs: How much is a life worth?

Patients brace themselves for expensive new treatments

BOSTON — Cancer patients, brace yourselves. Many new drug treatments cost nearly \$100,000 a year, sparking fresh debate about how much a few months more of life is worth.

The latest if Provenge, a first-of-a-kind therapy approved in April. It costs \$93,000 per year and adds four months' survival, on average, for men with incurable prostate tumors.

Bob Svensson is honest about why he got it: insurance paid. "I would not spend that money" because the benefit doesn't seem worth it, says Svensson, 80, a former corporate finance officer in Bedford, Mass.

His supplemental Medicare plan is paying while the government decides whether basic Medicare will cover Provenge and for whom. The tab for taxpayers could be huge — prostate is the most common cancer in American men. Most of those who have it will be eligible for Medicare, and Provenge will be an option for many late-stage cases.

Drug/Cancer type	Cost	Act 10 extension
Provenge (Prostate cancer)	\$93,000 per year	16 weeks
Herceptin (Breast cancer)	\$2,000 per month	11 weeks
Tarceva (Pancreatic cancer)	\$4,000 per month	12 days
Eributix (Lung cancer)	\$300,000 - \$800,000 per year	

Read more: <http://www.usatoday.com/story/health/health/cancer/2010/09/27/01100070cancer-drugs/4040000.html>

Lymph Node Study Shakes Pillar of Breast Cancer Care

Published: February 9, 2011

A new study finds that many women with early breast cancer do not need a painful procedure that has long been routine: removal of cancerous lymph nodes from the armpit.

About 20 percent of patients, or 40,000 women a year in the United States — taking out cancerous nodes has no advantage. It does not change the treatment plan, improve survival or make the cancer less likely to recur.

Women in the study who had the nodes taken out were far more likely (70 percent versus 25 percent) to have complications like infections, abnormal sensations and fluid collecting in the armpit, and 20 to 30 percent develop lymphedema — a chronic swelling in the arm that ranges from mild to disabling.

<http://www.nytimes.com/2011/02/09/health/breastcancer.html>

Cancer Decisions The Trusted Source for Cancer Issues & Opinions

Does radiation therapy add to survival?

Is Radiation Therapy A Necessity?
Sunday, 28 November 2010

A standard treatment for early-stage breast cancer is to remove the tumor via lumpectomy and then follow that with radiation therapy and the drug, tamoxifen. But a report presented at the 2010 annual meeting of the American Society of Clinical Oncology (ASCO) has called this approach into question. Researchers at Massachusetts General Hospital, Boston, studied women over the age of 70 who had estrogen receptor positive (ER+) tumors that were removed by lumpectomy. The subjects were randomly assigned to receive either tamoxifen alone or tamoxifen plus radiation therapy.

After more than 10 years, the women who received just the tamoxifen fared about the same as those who also received radiation. Although radiation resulted in fewer recurrences in the affected breast, the chance of being free from distant metastases was 95% with tamoxifen alone vs. 93% for tamoxifen plus radiation. The 10-year breast-cancer-specific survival was 89% with tamoxifen alone vs. 90% with radiation. The overall survival was 63% with tamoxifen alone vs. 61% with radiation added, i.e., it was slightly higher when women did not receive radiation.

The authors themselves concluded that "the addition of radiation does not impact survival, distant disease free survival, breast cancer specific survival or breast conservation" (Hughes 2010).

http://www.cancerdecisions.com/content/view/full/5962/lang_englis/

Medscape Medical News from the:
American Society of Clinical Oncology (ASCO) 2010 Annual Meeting

Radiation Does Not Improve Survival in Elderly Early-Stage Breast Cancer Patients

The probability of being free from mastectomy at 10 years was 96% for tamoxifen only and 98% for tamoxifen plus radiation; being free from distant metastases was 95% and 93%, respectively.

The 10-year breast-cancer-specific survival was also similar between the 2 groups: 96% for tamoxifen only and 96% for the tamoxifen plus radiation. Overall survival was 63% and 61%, respectively.

These findings demonstrate that after more than 10 years of follow-up, lumpectomy with anti-estrogen therapy alone can be an appropriate treatment option for this population.

"The question now becomes whether tamoxifen is enough treatment for women aged 70 and older with these small-stage, ER-positive tumors," said Dr. Hughes. "This means discussing it with patients, but I think avoiding radiation in this group is very feasible."

CLINICAL STUDIES

Prostate Specific Antigen (PSA) screening cuts mortality; debate continues

The Lancet Oncology, Volume 11, Issue 8, Pages 725 - 732, August 2010
doi:10.1016/S1473-2446(10)70146-7

This study shows that prostate cancer mortality was reduced almost by half over 14 years.

Prostate cancer is one of the leading causes of death from malignant disease among men in the developed world. One strategy to decrease the risk of death from this disease is screening with prostate-specific antigen (PSA).

The extent of benefits and harms associated with prostate cancer screening remains under continuous debate, explained Jonas Hugoson, MD, from the University of Gothenburg in Sweden, and colleagues. The researchers sought to determine whether the benefits of prostate-cancer screening compared favorably to other cancer screening programs.

The findings of the study "suggested that a PSA-based screening program is acceptable for men 50 years and older and the benefit of prostate-cancer screening compares favorably to other cancer screening programs; however, the risk of over-diagnosis is substantial and the number needed to treat is at least as high as in breast cancer screening programs," concluded Hugoson.

[http://www.thelancet.com/journal/20100808/elsevier/S1473-2446\(10\)70146-7](http://www.thelancet.com/journal/20100808/elsevier/S1473-2446(10)70146-7)

FOR TUNE
WHY WE'RE LOSING THE WAR ON CANCER AND HOW TO WIN IT
 BY CLIFTON LEAF

"Avastin, Eribut, Gleevec ... The new wonder drugs might make you think we're finally beating this dreaded scourge. We're not. Here's how to turn the fight around."
 — Clifton Leaf
 March 22, 2004 Fortune Magazine • P77

"People obsessed with cures, cures, cures are being—I hate to use the word—selfish by ignoring what could be done in terms of prevention."

http://morry.com/imagetunes/fortune/leaf_ashwe/2004/03/22/loc.html

Who Needs to Detoxify?

Genetics used to be the primary answer that scientists give to explain the occurrence of diseases.

Toxicity in the body has been found to be the culprit of most of the diseases present today.

Conditions like diabetes, cancer, obesity, asthma, ADD and ADHD, Autism, arthritis, fibromyalgia, multiple sclerosis, heart disease, and many others should be proof enough for the need to detoxify.

Who then needs to detoxify? Every man, woman, child and animal should be included, as we are now all toxic!

Medical Maverick Dr. Tsuneo Kobayashi

Originally published at www.japaninc.com December 2005

Melding East and West: a forerunner of cancer treatment and prevention.

By John Dool

Over the last 30 plus years, he has become a thorn in the side of conventional cancer physicians, not least for his idiosyncratic behavior and treatment methods, which are based on a lifetime of experimentation and observation, and a belief in the holistic nature of the human body. He uses Chinese herbal medicines in addition to drugs for biochemical modulation and apoptosis-inducing and cancer-vessel treatment, as well as sophisticated methods of applying TMCA (tumor marker combination assay), heat therapy and immunology.

Proof Kobayashi Method Works: In the last 25 years, he has treated more than 20,000 early stage patients, and more than 2,000 mid-to-latter stage patients, who subsequently went into long term remission, with an average life span after treatment of seven years.

In comparison, the average life span of breast cancer patients in remission is 4.5 years (Source: US National Cancer Institute) and for prostate cancer patients it is around 2 years.

<http://www.euro-med.us/dr-kobayashi-story.pdf>

Tumor First Palpable typically after seven years of growth...

Regardless of the process by which normal cells become cancerous, as these toxic cells fatten and grow, they require more nutrients to survive. Over time, a network of blood cells and friendly neighbors start to emerge and the tumor grows into a palpable lump that until recently was one of the few clues for a cancer diagnosis. A tumor that is detectable by feel has been growing for approximately seven years.

By that time, more often than not, treatment is too late. Early detection significantly increases the likelihood of survival, and much research is geared toward detecting cancer—early and individual cancer cells long before a tumor forms. Tumor markers, such as those developed by Dr. Kobayashi, are one method of early detection.

Blood Test to Spot Cancer Cells Gets Big Boost from J & J

By MARILYNN MARCHIONE, AP — Mon Jan 3, 9:31 pm ET

An image provided by PNAS Early Edition shows the HB-Chip, which has a ferritin-globule pattern that brings more tumor cells into contact with it.

BOSTON — A blood test so sensitive that it can spot a single cancer cell lurking among a billion healthy ones is moving one step closer to being available at your doctor's office. Boston scientists who invented the test and health care giant Johnson & Johnson announced Monday that they are joining forces to bring it to market. Four big cancer centers also will start studies using the experimental test this year.

The test uses a microchip that resembles a lab slide covered in 70,000 tiny posts, like bristles on a hairbrush. The posts are coated with antibodies that bind to tumor cells. When blood is forced across the chip, cells ping off the posts like balls in a pinball machine. The cancer cells stick, and stains make them glow so researchers can count and capture them for study.

In one study, the test was used on men thought to have cancer confined to the prostate, but they found cancer cells circulating in the blood of roughly 67% of the men tested.

Blood Test to Spot Cancer Cells... (continued)

By MARILYNN MARCHIONE, AP — Mon Jan 3, 9:31 pm ET

Stray cancer cells in the blood mean that a tumor has spread or is likely to, many doctors believe. Initially, doctors want to use the test to try to predict what treatments would be best for each patient's tumor and find out quickly if they are working.

"This is like a liquid biopsy" that avoids painful tissue sampling and may give a better way to monitor patients than periodic imaging scans, said Dr. Daniel Haber, chief of Massachusetts General Hospital's cancer center and one of the test's inventors.

"If you could find out quickly, 'this drug is working, stay on it,' or 'this drug is not working, try something else,' that would be huge," Haber said. "That's what got the scientific community's interest," Kris said. "Doctors can give a drug one day and sample blood the next day to see if the circulating tumor cells are gone," he explained.

<http://www.ajc.com/health/blood-test-to-spot-793468.html>

This undated image provided by PNAS Early Edition shows a circulating tumor cell cluster isolated using the HB-Chip from the blood of a patient with metastatic prostate cancer.

CA Profile® (The Original Cancer Profile)

Measures molecular, cellular activity. The Profile is composed of EIGHT tests:

- HCG (IRMA) : (intact HCG) human chorionic gonadotropin hormone, the pregnancy hormone and "malignancy hormone," according to Dr. Schandl. This test detects only intact HCG. That is, the alpha and beta intact subunits only.
- HCG (IMM) : (intact, beta, nicked beta and beta core subunits of HCG) human chorionic gonadotropin hormone, the pregnancy hormone and "malignancy hormone," according to Dr. Schandl. Normal: less 1:1
- HCG (IMM) Urine : a confirmatory determination for the presence of the true HCG hormone. It is important to find two of the three HCG tests positive in order to avoid misinterpretation.
- HCG-Urine may be the only one in the world to quantify this hormone at a super low detection limit, is immunospecific, not the Philippine acetone extraction method that will test for HCG, TSH, LH, and FSH all at the same time.
- PHL : phosphohexokinase enzyme that regulates anaerobic metabolism; it is a neurokinin, the autocrine mesenchymal-angiogenic factor.
- CEA : carcinoembryonic antigen, is a broad spectrum cancer antigen.
- GGT-P : gamma-glutamyl transaminase, a rather sensitive enzyme for monitoring the liver and bile system, and kidneys and heart also.
- TSH : thyroid stimulating hormone that can detect high or low thyroid activity.
- DHEAS : dehydroepiandrosterone sulfate, the adrenal "anti-stress, pro-immunity, longevity hormone," according to Dr. Schandl. Most cancer patients and those, who are developing cancer have low DHEA blood levels.

Sevenside Molecular Testing Laboratories, Inc.
 1818 Sheridan Street, Suite 102
 Hollywood, FL 33020
 phone: 954.729.4814
 fax: 954.729.4286

Vitamins vs. Chemotherapy and Radiation for Cancer Therapy

By Reagan Houston, MS, PE
 Townsend Letter — July/October 2009

Vitamins can strengthen the immune system to improve regular therapies and safely kill cancer. Here we compare cancer therapy by multivitamins with radiation and most chemotherapies. The late Abram Hoffer, MD, PhD, prescribed a regimen high in oral vitamin C plus other vitamins and minerals (Table 1). He also prescribed a diet low in meat, very low in sugar, but high in fruits, vegetables, and water. Most of his patients had failed prior surgery, radiation, and/or chemotherapy as prescribed by their oncologists. To all of his cancer patients, Hoffer offered the vitamin regimen, diet, and hope based on the results with earlier patients.

	Early	Later
Vitamin C mg	12,000	12,000
* Vitamin A, IU	3,000-30,000	3,000-15,000
* Vitamin B ₁₂ , IU	100,000-500,000	100,000-500,000
* Beta-carotene	100-150 IU	30,000 IU
Vitamin B ₆ complex	500-10,000	100-10,000
Vitamin B ₂	5,000 IU	100-10,000 IU
Vitamin E	100 IU	100 IU
Vitamin E succinate	400 mg	400 to 400 mg
Omega-3 fatty acids	40 mg	40 mg
Coumestrol	100 mg	100 mg
* Selenium	100 mcg	10 mcg
* Optional		

Type of Cancer	With Vitamins	Without Vitamins
Breast	70	3.9
Colon	17	2.0
Ovary	14	3.4
Prostate	42	2.4
Bladder	99	4.0
All 70 types	43 months	2.4 months

Dr. Hoffer's results were excellent. Those who refused vitamins lived a median of only 2.6 months. The 191 who accepted vitamins lived 45 months after seeing Hoffer (Table 2).

Cancer Treatment Statistics & Results

<http://www.cancercenter.com/cancer-statistics.cfm>

Charts depict a comparison of advanced-stage (defined as distant metastasis) survival rates at CTCA hospitals to publicly available data from the National Cancer Institute Surveillance Epidemiology and End Results Program (SEER).

We all see cancer patients everyday now - and these vital statistics brought to you in a great format by CTCA Cancer Treatment Centers of America has the best organized website I have seen to help promote the value of alternative medicine!

"A World Without Cancer"

Kobayashi's Simple Detox Plan:

Dr. Kobayashi's advocates an integrative treatment, combining conventional Western medical treatments with ancient eastern practices.

<ul style="list-style-type: none"> Thermal treatment Negative ion treatment Tumor marker testing Diet modification 	<ul style="list-style-type: none"> Herbs Massage Acupuncture Moxibustion
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Kobayashi has shown that his holistic medical treatment approach can put some 70% of all his cancer patients in remission, even if they are in the last stage of the disease.

Changes in life-style (change in sleeping habits), change in diet (eating yellow and green vegetables every day), detoxification, supplementation of vitamins, smoking cessation, maintaining the life-style change, special refreshment therapy, and herbal medicines are all part of **My F.I.G.H.T. for Your Health Program.**

F.I.G.H.T. For Your Health

utilizes all spheres within Complementary Alternative Medicine (CAM) - including Diet, Herbs and Vitamins, Homeopathy, Massage, Exercise, Relaxation, Energy and Magnetic therapies, etc...

The 5 Spheres of Complementary Alternative Medicine (CAM)

<http://www.mydochub.com/blog/index.php/2008/12/20/basic-principles-of-complementary-and-alternative-medicine-cam/>

Dr. Gordon's F.I.G.H.T. Program

This is the program we all need for **OPTIMAL HEALTH**, and no one achieves this without addressing all of these problems. *Briefly, F.I.G.H.T. is an acronym that stands for:*

- F = Food** related aspect and leaky gut, and Focus (positive mental outlook): Acidophilus, Avoid food sensitivities (wheat, dairy) food supplements to include Vitamin C and D
- I = Infection** causing cancer, cardiovascular disease, autoimmune diseases: Ozonator, H2O2, Silver, Vitamins A, C and D including IV VIT C
- G = Genetics**, and epigenetics and methylation issues needed for detoxing: B-12, MSM, TMG, 5-MTHF
- H = Heavy Metals and Hormones**: Daily detoxification of mercury, lead: Hormonal balance and support for both men and women: Oral Chelation, Zeolite, DHEA, HRT, Melatonin GH Support, Thyroid
- T = Toxins**: BPA, phthalates, and other toxins including household chemicals and everyday products: Exercise, IOPR Sauna, PEMF, Magnetics, Electrotherapy, cold (soft) lasers.

Nutraceutical use in late-stage cancer

SpringerLink

Michael J. Wargovich, Jay Morris, Vondra Brown, Jane Ellis, Britt Longolente and Rebecca Weber

Cancer and Metastasis Review
DOI: 10.1007/s12055-010-9240-5

Access to a wealth of information on the internet has led many cancer patients to use complementary methods as an adjunct to traditional therapy for cancer, with, and more often, without informing their primary caregiver.

Of the common complementary modalities, the use of dietary supplements appears to be highly prevalent in patients in active treatment for cancer, and later in cancer survivors. Emerging research suggests that some plant-based agents may, indeed, impact late-stage cancer, influencing molecular processes corrupted by tumor cells to evade detection, expand clonally, and invade surrounding tissues. The intent of this article is to review some of the current science underpinning the use of nutraceuticals in the latter stages of cancer.

<http://www.springerlink.com/content/q078607q8x373p3/>

Anti-Aging Medicine

by Ronald Klitz, MD, DO and Robert Goldman, MD, PhD, DO, FAASP - www.worldhealth.net
Townsend Letter - August/September 2010

Vitamin K May Slash Cancer Risk - EPIC-Heidelberg study documented participants with highest average intakes of K2 were 14% less likely to develop cancer, and increased vitamin K2 intakes corresponded to a 28% reduction in cancer mortality.

Garlic May Counteract Key Cancer Process - Nitrosation is a cellular process in which substances in foods and water are converted into cancer-causing compounds. Researchers have observed that "allyl sulfur compounds abundantly present in garlic may inhibit nitrosation in humans".

Vitamin and Calcium Supplements May Lower Breast Cancer Risk - Study findings presented at the American Association for Cancer Research 101st Annual Meeting 2010, from the Ponce School of Medicine (Puerto Rico), researchers have concluded that "Vitamin and calcium intake are protective for breast cancer and are associated with higher DNA repair capacity levels. Vitamin's intake is an independent protective factor for cancer while the protective effect of calcium may be explained by an increased DNA repair capacity".

Pomegranates May Help Prevent Breast Cancer - The fruit contains antitumor phytochemicals that are rich in ellagitannins, both compounds associated with anticancer properties. Studies suggest that pomegranate (ellagitannin)-derived compounds have the potential to prevent estrogen-responsive breast cancers.

Anti-Aging Medicine (cont)

by Ronald Klitz, MD, DO and Robert Goldman, MD, PhD, DO, FAASP - www.worldhealth.net
Townsend Letter - August/September 2010

Omega-3 Fatty Acids May Reduce Risk of Colon Cancer - Recent 5 year study from the US National Institute of Environmental Health Sciences (North Carolina) has found that participants consuming the most long-chain omega-3 fatty acids had a reduced risk of distal large bowel cancer, with those in the highest quartile achieving a 39% reduced risk.

Green Tea May Modify Lung Cancer - Green tea is especially high in polyphenols, a potent type of antioxidant, and previous studies have shown that drinking green tea may confer anticancer benefits. One study found that non-smokers who did not drink green tea had a 5.16-fold increased risk of lung cancer, compared with non-smokers who drank at least one cup per day. Among smokers, those who did not drink green tea at all had a 12.71-fold increased risk compared to those who drank at least one cup per day.

Pistachios May Reduce Lung Cancer Risk - Pistachios are known to exert heart-healthy benefits by producing a cholesterol-lowering effect and providing antioxidants, such as gamma-tocopherol. Two ounces of pistachios per day could be incorporated into dietary strategies designed to reduce the risk of lung cancer without significant changes in body mass index.

Broccoli Extract May Reduce Skin Cancer Risk - Johns Hopkins University (Maryland) fed broccoli sprout extracts high in glucoraphanin (which has been identified as a potent anticarcinogen) to laboratory mice previously exposed to UV radiation. The researchers found that a daily dose of 10 moles of glucoraphanin inhibited the subsequent development of skin tumors - with skin tumor incidence reduced by 25% and tumor volume by 70%.

Curcumin: the Indian solid gold

Adv Exp Med Biol. 2007;595:1-75.

Apparaj SB, Sankaran C, Mani N, Ishikawa H, Department of Experimental Therapeutics, The University of Texas M.D. Anderson Cancer Center

Curcumin has been shown to exhibit antioxidant, anti-inflammatory, antiviral, antibacterial, antifungal, and anticancer activities and thus has a potential against various malignant diseases, diabetes, allergies, arthritis, Alzheimer's disease, and other chronic illnesses.

These effects are mediated through the regulation of various transcription factors, growth factors, inflammatory cytokines, protein kinases, and other enzymes.

Curcumin exhibits activities similar to recently discovered tumor necrosis factor blockers (e.g., HUMIRA, REMICADE, and EMBREL), a vascular endothelial cell growth factor blocker (e.g., AVASTIN), human epidermal growth factor receptor blockers (e.g., ERBITUX, ERLONIB, and GEFITINIB), and a HER2 blocker (e.g., HERCEPTIN).

Considering the recent scientific bandwagon that multitargeted therapy is better than monogargeted therapy for most diseases, curcumin can be considered an ideal "Spice for Life".

PMCID: 17569205 [PubMed - indexed for MEDLINE]
<http://www.ncbi.nlm.nih.gov/pubmed/17569205?dopt=Citation>

ZEOLITE (hydrated alkali alumin silicate)

Zeolites are a group of chemically related mineral substances that contain mainly hydrated aluminum and silicon compounds. They occur naturally in volcanic rock and ashes. Zeolites have a fine porous cage-like structure and are often used as adsorbents, desiccants, detergents, and as water and air purifiers. They are applied in medicine as an external hemostatic dressing, for diarrhea, diabetes and as suspending agents. The effect of zeolites for autism is under investigation. Zeolites have been marketed as dietary supplements for hangover, and as adjuvant therapy for cancers.

Purported Uses of Zeolite:

- Treatment of diarrhea
- A drug containing zeolite was developed for diarrhea in Cuba.
- Anticancer therapy
- In vitro and animal studies suggest anticancer properties, but there is no clinical data to validate use of Zeolites for cancer.
- Antioxidant
- Animal studies showed that Zeolites may have antioxidant properties.
- Immunoenhancer
- Data from animal studies demonstrated that zeolites can both stimulate and suppress the immune system.
- Hangover Cure
- Rapidly detoxifies the toxins alcohol produces in the stomach and intestines.

See Memorial Sloan-Kettering Cancer Center web site for additional info
<http://www.mskcc.org/medoc/medoc/medoc/09-02-06.htm>

Natural News Zeolite - is it the next big thing in nutritional therapies for cancer and chronic disease?

- Zeolite may reduce cancer risk. Although only one small human trial has been conducted, the results were intriguing: 78% full remission for stage 4 cancer patients (with various types of cancer) due to zeolite's ability to induce tumor suppressor genes that cause the body to not only kill the growth of tumor cells, but actually destroy such tumors.
- Acts as an antioxidant. Thus, it counters free radicals and helps the body defend itself against free radical DNA damage.
- Traps and neutralizes nitrosamines in the digestive tract. Nitrosamines are potent cancer-causing agents acquired from processed meats. Pancreatic cancer rates shoot up 89%, and colon cancer rates are similarly heightened. Leukemia and brain cancers are also strongly correlated with processed meats consumption.
- Chelates and removes heavy metals from the body. Known to remove mercury, cadmium, and lead, all of which are strongly correlated with various neurological disorders such as autism, Alzheimer's disease, dementia, etc.
- Supports healthy immune system function which, of course, helps protect the body from a number of diseases and health threats.
- Acts as a broad spectrum antiviral agent by helping reduce the viral load in conjunction with other, more direct treatments.
- Balances pH levels. Optimum pH of the body should be slightly alkaline, around 7.4. Bacteria, Candida yeast fungi and viruses thrive when the pH of the body is acidic (pH 6.9 and below), thus removing or reducing the toxic load may result in a more alkaline system.

Are We Suffering from Magnetic Deficiency Syndrome (MDS)?

Kyoichi Nakagawa, MD, Director Isuzu Hospital, Tokyo, Japan has spent 20+ years researching magnetism and humans. His reported symptoms of MDS include:

• Stiffness of shoulders, back and neck	• General lassitude
• Lumbago	• Diseases of the digestive organs
• Chest pains for no specific reason	• Diabetes
• Habitual headache	• Bone and nerve diseases
• Heaviness of the head	• Symptoms resist normal treatment
• Dizziness	• Regimens
• Insomnia for uncertain reasons	• Symptoms with no objective pathological findings found
• Habitual constipation	

Why Do We Need Magnetism?

Most people know we need food (earth), water (water) and oxygen (air) to survive. And many people also know they need full spectrum sunlight (fire) or you get what is referred to as SAD (seasonal affective disorder).

That makes FOUR critical elements:

EARTH/FOOD	WATER	FIRE/SUNLIGHT	AIR/OXYGEN
			

However, every organism on earth (that includes people) has evolved to the natural magnetic signals of the earth and that part of the solar radiation that is able to penetrate our atmosphere.

We have learned that these PEMF signals are of great importance to internal regulation of every organism.

<http://www.pemf.net/the-5th-element.html>

Earth's Inconstant Magnetic Field

Our planet's magnetic field is in a constant state of change. Researchers are beginning to understand how it behaves and why.

Scientists have long known that the magnetic pole moves. James Ross located the pole for the first time in 1831 after an exhausting arctic journey during which his ship got stuck in the ice for four years.

No one returned until the next century. In 1904, Roald Amundsen found the pole again and discovered that it had moved—at least 50 km since the days of Ross.

Earth's magnetic field is changing in other ways, too: Compass needles in Africa, for instance, are drifting about 1 degree per decade. And globally the magnetic field has weakened 10% since the 19th century.

http://science.nasa.gov/science-news/science-at-nasa/2002/29dec_magneticfield/

Why Does Earth's Magnetic Field Flip?

John Roach - National Geographic News
September 27, 2006

Earth's magnetic field has flipped many times over the last billion years, according to the geologic record. But only in the past decade have scientists developed and evolved a computer model to demonstrate how these reversals occur.

Scientists believe Earth's magnetic field is generated deep inside our planet by a "geodynamo" effect. There, the heat of the Earth's solid inner core churns a liquid outer core composed of iron and nickel. The churning acts like convection, which generates electric currents and, as a result, a magnetic field. This magnetic field shields most of the habitable parts of our planet from charged particles that emanate from space, mainly from the sun. The field deflects the speeding particles toward Earth's Poles.

Our planet's magnetic field reverses about once every 200,000 years on average. However, the time between reversals is highly variable. The last time Earth's magnetic field flipped was 780,000 years ago, according to the geologic record of Earth's polarity.

http://news.nationalgeographic.com/news/2006/09/0927_field_flip.html

Geomagnetic field flip-flops in a flash

Scientists unearth more evidence of superfast changes in Earth's magnetic polarity

By Alexandra Witze - September 25th, 2010, Vol. 179 #7

Just north of a truck stop along Interstate 80 in Battle Mountain, Nev., lies evidence that the Earth's magnetic field once went haywire.

Magnetic minerals in 15-million-year-old rocks appear to preserve a moment when the magnetic north pole was rapidly on its way to becoming the south pole, and vice versa.

Such "geomagnetic field reversals" occur every couple hundred thousand years, normally taking about 4,000 years to make the change. The Nevada rocks suggest that this particular switch happened at a remarkably fast clip.

It is only the second report of such a speedy change in geomagnetic direction. The first, described in 1995 based on rocks at Steens Mountain, Ore., has never gained widespread acceptance in the paleomagnetism community. A second example could bolster the theory that reversals really can happen quickly, over the course of years or centuries instead of millennia.

http://www.sciencenews.org/view/generic/id/62947/title/Geomagnetic_field_flip-flops_in_a_flash

We're living the end of time. Not the end of the world, but the end of a world age — a 5,125 year cycle of time — and the way we've known the world through out that time. The present world began in 3,113 B.C. and will end in A.D. 2012. Because the end of anything also marks the beginning of what comes next, we're also living the start of what follows the end of time: the next world age, which ancient traditions called the great cycle.

For at least four such cycles (or five, according to the Mesopotamian traditions of the Aeneas and the Maya peoples), our ancestors endured the changes in global magnetic fields and climate diminishing resources, and rising sea levels that cover with the end of time. They did so without satellites and the Internet or computer models to help them prepare for such a radical shift.

The fact that they lived to tell the story stands as a powerful testament to an undeniable truth: it tells us beyond any reasonable doubt that the inhabitants of our planet have survived the end of world ages in the past. Beyond simple surviving, our ancestors learned from the difficulties that can accompany the change.

In the words of their day, they did their best to tell us what it means to live such a new moment in history. It's a good thing they did, because such events are few and far between. Only five generations in the last 26,000 years have experienced the shift of world ages. We will be the sixth.

<http://www.greggbraden.com/home/fractal-time-calculator/>

What Can We Expect?

2012 Reference Dates and Their Conditions				
Present Time	Magnetic Strength	Solar Output	Climate Status	Civilization Status
Early 2008				
End of Cycle	-7.5 Units	Sharp Increase	*Warming +1C *Polar Ice Collapse *Sea Level Rise	*Multiple Wars *Collapsing Economy *Overextended Military
Previous Cycle				
5,125 Year Reference Date				
1153 A.C.	-10.5 Units	Sharp Increase	*Warming +1C *Polar Ice Collapse *Sea Level Rise	*Collapse of Egypt's 20th Dynasty *Multiple Wars *Overextended Economy
Previous Cycle				
26,000 Year Reference Date				
13,824 A.C.	-8.25-7.25 Units	Sharp Increase	*Warming +2C	*No Civilization as We Now Know It

Figure 15. This timeline shows the key conditions for the 2012 reference dates indicated by the Time Cook Calculator for both the 5,125 year world age and the 26,000 year generational cycle. The similarities in the conditions between these two world ages are striking. In the cycles of nature below, the patterns of the past, these indicators give us a concrete idea of what we can expect in the 2012 transition between world ages.

Prolonged weakening of the geomagnetic field (GMF) affects the immune system

Roman A. Tombarikiewicz B.
Department of Brain Biochemistry, Institute of Pharmacology, Polish Academy of Sciences, Krakow, Poland, roman@pan.krakow.pl

We found that the long-term shielding of the GMF could influence the functioning of the immune system in a sex-dependent manner.

The deprivation of the GMF delayed physiological thymus involution, that effect being more strongly expressed in females. The weakening of the GMF resulted in an increased number of peritoneal macrophages, especially in males.

The shielding of the GMF diminished the ability of macrophages to release NO and to synthesize O2(-), those effects being more powerfully expressed in males and females, respectively.

It is proposed that the observed changes in the immune system occur as a consequence of the protective effect of GMF shielding on the circadian rhythm-dependent level of melatonin.

Power Failure

Does mitochondrial dysfunction lie at the heart of common, complex diseases like cancer and autism?
By Megan Scudellari

Over the last five years, a growing number of papers by researchers around the world have implicated dysfunctional mitochondria in many elusive diseases, including Parkinson's, autism, and aging.

Leading the charge is a respected and renowned member of the National Academy of Sciences, Dr. Douglas Wallace, founder of the field of human mitochondrial genetics.

"Every one of the diseases we can't solve is absolutely logical if we put energy at the center," Dr. Wallace says.

Modifying fails to solve many of today's common, complex diseases, Wallace asserts, because the fundamental paradigm is wrong: the medical establishment has spent far too long focusing on anatomy and ignoring energy—specifically, mitochondria.

The cells of living tissue are electrical direct current (DC) systems



All life generates an electrical DC charge

This natural DC charge is created by the movement of ions in and out of cell membranes which are responsible for a healthy cell membrane's electrical charge of approximately - 70 mV.

Any challenge to the cell, such as oxy-gen/nutrient deficiency, toxicity, tissue changes or inflammation, alters ion movement and the charge on the cell membrane changes.

This altered charge profoundly affects the homeostasis of the cell and normal metabolic processes, including the movement of nutrients into, and waste products of metabolism out of the cell.

- Martin Milner, ND

A Brief History of Pulsed Electro-Magnetic Frequency Therapy

As far back as 1899 the American Electro-Therapeutic Association conducted annual conferences on the therapeutic use of electricity and electrical devices by physicians on ailing patients.




In 1899, Nikola Tesla published a paper that he read at the eighth annual meeting of the American Electro-Therapeutic Association in Buffalo, NY. He states that one of the early observed and remarkable features of pulsed magnetism was its apparent harmlessness, which made it possible to pass relatively great amounts of electrical energy through the body of a person.

Coils up to three feet in diameter were used for magnetically treating the body without contact, though ten to a hundred thousand volts were present "between the first and last turn".

Today, Pulsing Electro-Magnetic therapy is approved by the FDA to promote the healing of non-union bone fractures.

PAPIMI NanoPulse Therapy

Home | General | Studies | Technical | Approvals | Affiliates | Contact Us | Links | Contact

Medical Studies - Cases

- National Foundation of Alternative Medicine (NFAAM)
- World Science Publishing
- European Journal of Surgery (EJOS, pub)
- Wiley InterScience (Wiley InterScience (Disorders/Neurological))
- Private study from Philadelphia
- Report from University of Agriculture of Athens
- Case study by San Francisco (EJOS, 1998)
- Analisis Medico Biocemico Mader (2,4,1985)
- Case from private practice (1985)
- Neurophysic. Theorico. Kallakakis (1986)

<http://www.papimi.com/CASESen.htm>

Magnetic Therapy in Eastern Europe: A Review of 30 Years of Research
By Jiri Jerabek, MD, PhD and William Pawluk, MD, MS

The book presents information summarizing conditions studied, magnetic field strength and type of field used, frequency and duration of application and summary of actual results. There are detailed descriptions of many studies on both static (permanent) and frequency (pulsed) fields.



Controlled human studies described include:

- Atherosclerosis
- Brain neurosecretion
- Breast fissures
- Burns
- Carpal tunnel syndrome
- Cervicitis
- Chronic bronchitis
- Controlled Studies Animals
- Cornical trauma
- Edema
- Endometriosis
- Femoral artery surgery
- Fractures
- Increased circulation
- Infected skin wounds
- Ischemic heart disease
- Limb grafts
- Liver function
- And more....

Attributes of PEMF
How Does PEMF Work?

1. Atomic excitement/electron spin to increase and store energy.
2. Molecules tend to align slightly with each magnetic pulse, making them easier to combine, especially when excited.
3. The pH goes a hundred times more alkaline, which allows better oxygen uptake, and suppresses some harmful entities.
4. The viscosity shifts on the order of 16 fold, allowing liquids to flow into cell gates, or lymph to thin and flow.
5. Red blood cells separate (probably all take a positive charge and repel each other) in minutes, allowing more surface area to transport oxygen.

6. Relaxing of the vascular system within minutes of completing a session, which drops blood pressure by up to twenty percent 30 minutes after.
7. Wound healing increases by 30%. There is systemic response to the sessions as though the body's functions have been fine tuned, or turbo charged. Many different problems get better, often not the targeted problems only, but things not expected to get better.
8. Bone mending, the quality of calcium, is one-third normal time, and the skin of the bone seems to develop cells more like the DNA dictates.
9. Electroporation is the phenomena wherein the cells gates open to allow more passage of solvent (H2O) to dissolve toxins, or allow better delivery of a medicine or herbs.
10. Sodium potassium exchange, which is documented in a US Army study to reduce pain, often within minutes of treatment.

The Electrical Properties of Cancer Cells

Dr. Steve Robinson M.D., Ph.D.

...cells become more electronegative in the course of cancerization.

Membrane degeneration occurs in the initial phase of carcinogenesis - first in the external cell membrane - and then in the inner mitochondrial membrane.

The degenerative changes in the surface membrane causes these membranes to become more permeable to water-soluble substances so that potassium, magnesium, calcium migrate from the cells, and sodium and water accumulate in the cell interior.

The degenerative changes in the inner membrane of the mitochondria causes loss of anchorage of critical mitochondrial enzymes, and that the mitochondria in cancer cells degenerate and are reduced in number

<http://www.royal16.com/halwagner1.pdf>

JNCI JOURNAL OF THE NATIONAL CANCER INSTITUTE

Oxford Journals Medicine
JNCI | Natl Cancer Inst
Volume 96, Issue 24
Pp. 1805-1806.

Energy Boost: The Warburg Effect Returns in a New Theory of Cancer
Ken Garber

In 1930, German biochemist Otto Warburg, M.D., proposed that cancer was caused by altered metabolism—deranged energy processing—in the cell. Warburg, winner of a Nobel Prize in 1931, is now considered by many to be the greatest biochemist of the first half of the 20th century. His cancer theory, though, mostly fell on deaf ears.

Now Warburg's theory is enjoying a resurrection. Two prominent cancer biologists contend that a shift in energy production from oxidative phosphorylation to glycolysis—the so-called "Warburg effect"—is a fundamental property of cancer cells, not just a byproduct of the cell's transformation into cancer.

"We think it's a requirement of transformation," said University of Pennsylvania cancer biologist Craig Thompson, M.D. "You can't become fully transformed until you've had this shift." If Thompson is right, the implication is enormous: a whole new area of vulnerability for cancer cells, one that promises novel targeted treatments. "Can we exploit any of this for therapeutic reasons?" asked Chi Dang, M.D., Ph.D., a cell biologist at Johns Hopkins University Medical School in Baltimore who is doing similar work. "The answer is going to be yes."

Fundamental principle for cancer in relation to the physical energy condition of a cell.

Cancer, is a critically low state of energy within a cell and with a critically low metabolism, in which the cell is being "trapped" for various reasons.

This critically low energy and metabolism state is manifested by a low trans-membrane potential (TMP) of 15 mvolts, which causes a "chain" of specific malfunctions for the cell, and a general state of ischemia (low energy) for the organism.

When a cell is in this particular low energy/metabolism state and has below TMP of 15 mvolts that is responsible for cell metabolism (Nobel Laureate Albert Szent-Gyorgyi, Cone and others). The extremely weak TMP of 15 mvolts cell divides in two identical parts in an attempt to survive in larger numbers as a species.

Toxic compounds disrupt the electrical potential of cell membranes, and the structure of mitochondrial membranes will deactivate the electron transport chain and disturb oxygen-dependent energy production. Cells will then revert to fermentation, which is a less efficient primeval form of energy production.

PEMF Therapy Increases Cellular Membrane Permeability and Cellular Metabolism

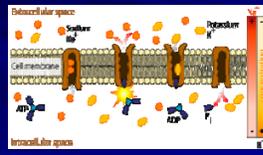
As early as 1940, it was suggested that magnetic fields affect the TMP and the flow of ions in and out of the cells and might therefore influence cellular membrane permeability.

It has since been established that magnetic fields can influence ATP (Adenosine Triphosphate) production; increase the supply of oxygen and nutrients via the vascular and lymphatic systems; improve the removal of waste via the lymphatic system; and help re-balance the distribution of ions across the cell membrane.

Healthy cells in tissue have a voltage difference between the inner and outer membrane referred to as the membrane resting potential that ranges from -70 to -80 mV. This causes a steady flow of ions through its voltage-dependent ion channels.

As the magnetic field created fluctuates, it induces an electron flow or a current in one direction through the living tissue. As electrons always flow from a negative (cathode) to a positive (anode) potential, when the magnetic field vanishes, the direction of the electron flow is reversed. Therefore such induced polarized currents stimulate the exchange of ions across the cell membrane.

In a study on Chronic Fatigue Syndrome and Electro-medicine, Thomas Valone, Ph.D. showed that damaged or diseased cells present an abnormally low TMP, about 80% lower than healthy cells. This signifies a greatly reduced metabolism and, in particular, impairment of the electrogenic Na⁺/K⁺ pump activity associated with reduced ATP (Adenosine Tri-Phosphate) production.



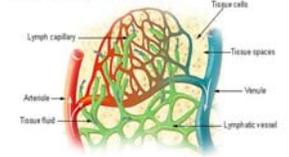
The Na⁺/K⁺ pump within the membrane forces a ratio of 3Na⁺ ions out of the cell for every 2K⁺ ions pumped in for proper metabolism. The sodium-potassium pump uses energy derived from ATP to exchange sodium for potassium ions across the membrane.

An impaired Na⁺/K⁺ pump results in edema (cellular water accumulation) and a tendency toward fermentation, a condition known to be favorable toward cancerous activity.

PEMF Therapy Increases Blood and Lymphatic Circulation

The arterial and venal blood vessels are intimately associated with the lymphatic system. As the blood and lymphatic vessels bring oxygen and nutrients to the cells and remove their waste products, they are nourishing and detoxifying the cells, tissues and body.

Lymph Capillaries in the Tissue Spaces



As PEMF therapy mechanically stimulates blood vessels and blood flow, the blood vessels pump blood and oxygen into the cells.

Simultaneously, PEMF therapy mechanically stimulates the lymphatic vessels and waste products are hauled away from the cells more efficiently. PEMF therapy supports immune health by mechanically stimulating lymphatic drainage and blood flow.

Alternating electric fields arrest cell proliferation in animal tumor model and human brain tumors

Yale University School of Medicine, New Haven, CT, April 5, 2007

We have recently shown that low intensity, intermediate frequency, electric fields inhibit by an anti-microtubule mechanism of action, cancerous cell growth *in vitro*. Using implanted electrodes, these fields were also shown to inhibit the growth of dermal tumors in mice. The present study extends these findings to additional cell lines (human breast carcinoma, MDA-MB-231, and human non-small-cell lung carcinoma (H1299)) and to animal tumor models (intradermal B16F1 melanoma and intracranial F-98 glioma) using external insulated electrodes. These findings led to the initiation of a pilot clinical trial of the effects of TFields in 10 patients with recurrent glioblastoma (GBM). Median time to disease progression in these patients was 26.1 weeks and median overall survival was 62.2 weeks. These time to disease progression and OS values are more than double the reported medians of historical control patients. No device-related serious adverse events were seen after >70 months of cumulative treatment in all of the patients. The only device-related side effect seen was a mild to moderate contact dermatitis beneath the field delivering electrodes.

We conclude that TFields are a safe and effective new treatment modality which effectively slows down tumor growth *in vitro*, *in vivo* and, as demonstrated here, in human cancer patients.

Technol Cancer Res Ther. 2011 Jun;10(2):281-5.

Differential sensitivities of malignant and normal skin cells to nanosecond pulsed electric fields.

Yang W, Wu YH, Yin D, Koeller HP, Saeed DE, Venier PT, Gunderson MA, Ning JH. Department of Electrical Engineering, Viterbi School of Engineering (VSOE), University of Southern California (USC), Los Angeles, CA 90089, USA.

Abstract
Pulsed electric fields with nanosecond duration and high amplitude have effects on biological subjects and bring new venue in disease diagnosis and therapy. To address this respect, we investigated the responses of paired tumor and normal human skin cells - a basal cell carcinoma (BCC) cell line, and its sister normal cell line (TE) - to nanosecond, megavolt-per-meter pulses. When BCC (TE 354T) and TE (TE 93.530) cells, cultured under standard conditions, were exposed to 50 ns, 3 MV/m, 50 Hz pulses and tested for membrane permeabilization, viability, morphology, and caspase activation, we found that nanoelectropulse exposure: 1) increased cell membrane permeability in both cell lines but to a greater extent in BCC cells than in normal cells; 2) decreased cell viabilities with BCC cells affected more than normal cells; 3) induced morphological changes in both cell lines including condensed and fragmented chromatin with enlarged nuclei; 4) induced about twice as much caspase activation in BCC cells compared to normal cells.

We concluded that in paired tumor and normal skin cell lines, the response of the tumor cells to nanoelectropulse exposure is stronger than the response of normal cells, indicating the potential for selectivity in therapeutic applications.

PMID:21517135 [PubMed - in process]

Physiol Meas. 2006 Aug;29(8):1077-93.

Nanosecond pulsed electric fields modulate cell function through intracellular signal transduction mechanisms.

Reede SJ, Blackmore PF, White J, Joshi RP, Schoenbach KH. Center for Pediatric Research, Eastern Virginia Medical School, Children's Hospital for The King's Daughters, Norfolk, VA, USA.

These studies describe the effects of nanosecond (10-300 ns) pulsed electric fields (nsPEF) on mammalian cell structure and function. As the pulse durations decrease, effects on the plasma membrane (PM) decrease and effects on intracellular signal transduction mechanisms increase.

We also describe the effects of nsPEF on the PM and intracellular signaling pathways. nsPEF with durations and electric field intensities that do or do not cause PM electroporation, induce apoptosis in mammalian cells with a well-characterized phenotype typified by externalization of phosphatidylserine on the outer PM and activation of caspase proteases.

Treatment of Jurkat cells with nsPEF with durations and electric field intensities that do not cause PM electroporation and then treated with nsPEF, green fluorescent protein expression was enhanced compared to electroporation alone.

The results indicate that nsPEF activate intracellular mechanisms that can determine cell function and fate, providing an important new tool for probing signal transduction mechanisms that modulate cell structure and function and for potential therapeutic applications for cancer and gene therapy.

PMID:15382843 [PubMed - indexed for MEDLINE]

This patient was diagnosed with parotid cancer and had surgery and radiation therapy in August of 2007. Following this, his face refused to heal. The side of his face stayed, pretty much as seen here for the next 3 1/2 years.



In late April, 2011, he started to apply PEMF to his face, 5 treatments and 2 weeks later, his face looked like this.



His face continues to improve with regular PEMF treatment sessions. The patient is, of course, very happy with the improvement in his face.



He is also very happy that the PEMF treatments have reduced the pelvic pain and frequent nighttime urination caused by an inflamed prostate!



Article by Martin Milner, ND featured in the May 2010 issue of Townsend Newsletter, along with article by Dr. Garry Gordon "Chelation and Cardiovascular Disease"

Reversal of a Case of Advanced Coronary Artery Disease with Unstable Angina Using Pulsed Electromagnetic Field (PEMF) Cellular Exercise

By Martin Milner, ND
It is wonderful to both the patient and physician when, after years of failed trials in both conventional and alternative medicine, a safe, natural method of cellular exercise makes dramatic changes in a case of severe chronic disease. This case is an extraordinary example of reversing end-stage coronary artery disease with pulsed electromagnetic field cellular exercise (PEMF). The case also illustrates critical monitoring and decision making during throughout patient management.

The Case
SH, a 62-year-old, very pleasant white Caucasian female, presented to my clinic with advanced coronary artery disease, diabetes, hypertension, and obesity. Her cardiac history began in youth, when she went into cardiac arrest and was successfully defibrillated and brought back to life. She did have sensation in two of her toes at discharge from the hospitalization. The loss of sensation was presumed to be a complication of acute dehydratation. During the hospitalization, significant infarct heart disease was diagnosed on cardiac catheterization, and two stents were deployed into the left anterior descending and right coronary coronary artery. At the time of this

Progression to Advanced Coronary Artery Disease
As time progressed, her disease advanced, and a second angiogram revealed the deployment of a third stent in her left anterior descending coronary artery. Her infarct heart disease progressed further, and as such she underwent three vessel coronary artery bypass graft surgery where the LAD stent was bypassed along with bypass surgery of the left circumflex and bypassing a new connection to the right anterior descending coronary artery. At the time of this

Reversal of a Case of Advanced Coronary Artery Disease using PEMF by Martin Milner, ND

End Stage Coronary Artery Disease
Having failed EECOP and progressing to unstable angina with extensive prior CABG (coronary artery bypass graft) and stent deployments, conventional as well as alternative medicine interventions seemed to be used up. I suggested we begin a trial of pulsed electromagnetic field (PEMF) cellular exercise.

Remission of Unstable Angina at Rest
SH underwent PEMF sessions of 30 to 60 minutes two to three times a week. She became able to perform activities of daily living without chest pain after the first month of PEMF and was no longer experiencing chest pain at rest. Her isosorbide dose was lowered from three times daily back to twice daily. Her BNP dropped from a high of 699 to 126 by December 2009, confirming resolution of ischemic heart failure.

Partial Relapse Followed by Remission
SH experienced a partial relapse with reduction of PEMF sessions from three times weekly to once weekly. However, upon purchasing her own machine in June 2009 and increasing the sessions to one to two hours daily, her ischemia improved further. She improved again to the point of never getting chest pain at rest or with mild activities of daily living. She was able to mildly exercise without chest pain, and her BNP was low at 134 as of July 2009.

"If Physical Exercise Were a Drug, It Would Be Hitting the Headlines"; Exercise Can Help Cancer Survivors, Says New Report
 Macmillan Cancer Support - <http://www.macmillan.org.uk>
 08-09-11

EXERCISE is a "wonder drug" for cancer survivors and may even prevent the disease coming back, according to a report published today. Macmillan Cancer Support said physical activity should be "prescribed" by doctors after "hard evidence" showed it can significantly help recovery and prevent other long-term illnesses.

The research also showed exercise had an impact on preventing recurrence of a few specific cancers.

- Women with breast cancer who exercise for 150 minutes a week at moderate intensity have a more than 40% lower risk of dying and recurrence of disease compared to women who are active for less than one hour a week.
- Results of two studies on bowel cancer also show the risk of dying or the disease coming back is cut by about 50% in patients taking six hours a week of moderate intensity exercise.
- Prostate cancer patients have around a 30% lower risk of dying from the disease and a 57% lower rate of disease progression if they do three hours of moderate intensity exercise a week.

Exercise Associated With Longer Survival After Brain Cancer Diagnosis
 ScienceDaily
 Your source for the latest research news
 ScienceDaily (June 21, 2011)

Brain cancer patients who are able to exercise live significantly longer than sedentary patients, scientists at the Duke Cancer Institute report.

The finding, published online June 20 in the *Journal of Clinical Oncology*, adds to recent research that exercise improves how cancer patients feel during and after treatments, and may also extend their lives. The study enrolled 243 patients at the Preston Robert Tisch Brain Tumor Center at Duke with advanced recurrent gliomas, lethal brain malignancies that typically result in a median life expectancy of less than six months.

The patients who reported participating in regular, brisk exercise - the equivalent of an energetic walk five days a week for 30 minutes, had significantly prolonged survival, living a median 21.84 months vs. 13.03 months for the most sedentary patients.

Group	Median Survival (Months)
Sedentary	13.03
Exercise	21.84

<http://www.sciencedaily.com/releases/2011/06/110621114153.htm>

EXERCISE YOUR CELLS AND RECHARGE YOUR LIFE!

PEMF Restores Inner Energy – like a "battery charger"

And boosts cellular nutrient/supplement uptake

Cancer Survivors Often Turn to Complementary Medicine
 Medscape Today
 By Charles Bankhead, Staff Writer
 MedPage Today August 04, 2008
<http://www.medscape.com/PrimaryCare/AlternativeMedicine/10410>

They report using these modalities AFTER the diagnosis is made:

- Relaxation, 44.3%
- Faith/spiritual healing, 42.4%
- Nutritional supplements/vitamins, 40.1%
- Meditation, 15%
- Religious counseling, 11.3%
- Massage, 11.2%
- Support groups, 9.7%

Kobayashi has PROVEN what happens when we institute COMMON SENSE prevention techniques in motivated patients before the Clinical DIAGNOSIS of CANCER, usually a lump or bump, is made.

My F.I.G.H.T. for your Health program is based upon Kobayashi protocols which includes stop smoking, LOWER STRESS, GET MORE SLEEP, Simply diet, Immune support supplements, exercise, DETOX with FIR sauna, and now PEMF.

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To view the full presentation "Stemming the Tide of Cancer", and more information about Dr. Gordon's F.I.G.H.T For Your Health Program and PEMF visit Gordon Research Institute online at www.gordonresearch.com

Dr. Garry F. Gordon MD, DO, MD(PhD)
 January 29-30, 2011
 Orlando, FL

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THANK YOU
 Garry F. Gordon MD, DO, MD(PhD)