

# Ozone Sauna, Pulsed Electro Magnetic Frequency, and Metallic Mineral Therapy

- A synergistic combination for cancer management?
- © Robert Jay Rowen 4-18

# Theory

- Gold
- Silver
- Platinum
- Ozone
- PEMF

# Gold

- [Int J Nanomedicine](#). 2016 Jun 7;11:2633-9. doi: 10.2147/IJN.S108661. eCollection 2016.
- **Peptide-coated gold nanoparticles for modulation of angiogenesis in vivo.**
- [Roma-Rodrigues C<sup>1</sup>](#), [Heuer-Jungemann A<sup>2</sup>](#), [Fernandes AR<sup>1</sup>](#), [Kanaras AG<sup>2</sup>](#), [Baptista PV<sup>1</sup>](#).
- **[Author information](#)**
- **Abstract**
- In this work, peptides designed to selectively interact with cellular receptors involved in the regulation of angiogenesis were anchored to oligo-ethylene glycol-capped gold nanoparticles (AuNPs) and used to evaluate the modulation of vascular development using an ex ovo chick chorioallantoic membrane assay. These nanoparticles alter the balance between naturally secreted pro- and antiangiogenic factors, under various biological conditions, without causing toxicity. Exposure of chorioallantoic membranes to AuNP-peptide activators of angiogenesis accelerated the formation of new arterioles when compared to scrambled peptide-coated nanoparticles. On the other hand, antiangiogenic AuNP-peptide conjugates were able to selectively inhibit angiogenesis in vivo. We demonstrated that AuNP vectorization is crucial for enhancing the effect of active peptides. Our data showed for the first time the effective control of activation or inhibition of blood vessel formation in chick embryo via AuNP-based formulations suitable for the selective modulation of angiogenesis, which is of paramount importance in applications where promotion of vascular growth is desirable (eg, wound healing) or ought to be contravened, as in cancer development.

# PLATINUM

## Novel Metals and Metal Complexes as Platforms for Cancer Therapy

- The discovery of cisplatin,  $cis\text{-}[\text{Pt}^{\text{II}}(\text{NH}_3)_2\text{Cl}_2]$ , was a defining moment which triggered the interest in platinum(II)- and other metal-containing complexes as potential novel anticancer drugs.

# SILVER

- I do not recommend any form of ionic silver (clear solution). Ionic silver immediately complexes with chloride ion on contact to become insoluble and inactive silver chloride and will precipitate.

# Infections and Cancer

- 1. de Martel C, Ferlay J, Franceschi S, Vignat J, Bray F, Forman D, Plummer M (June 2012). "Global burden of cancers attributable to infections in 2008: a review and synthetic analysis". *Lancet Oncol.* **13**(6): 607–615. [doi:10.1016/S1470-2045\(12\)70137-7](https://doi.org/10.1016/S1470-2045(12)70137-7). [PMID 22575588](https://pubmed.ncbi.nlm.nih.gov/22575588/).
- 2. De Paoli, Paolo; Carbone, Antonino (2013). "Carcinogenic viruses and solid cancers without sufficient evidence of causal association". *International Journal of Cancer.* **133** (7): 1517–1529. [doi:10.1002/ijc.27995](https://doi.org/10.1002/ijc.27995). [ISSN 0020-7136. PMID 23280523](https://pubmed.ncbi.nlm.nih.gov/23280523/).

# “Antibacterial Silver”

- The antibacterial activity of silver has long been known and has found a variety of applications because its toxicity to human cells is considerably lower than to bacteria.
- Met Based Drugs. 1994; 1(5-6): 467–482. doi: [10.1155/MBD.1994.467](https://doi.org/10.1155/MBD.1994.467)

# OZONE AND CANCER

Head and neck squamous cell carcinomas (HNSCC) represent a group of metastasizing tumors with a high mortality rate in man and animals.. **Therapeutic insufflation of medical ozone/oxygen (O3/O2) gas mixture into the peritoneum (O3/O2- pneumoperitoneum) at an advanced stage of tumor disease led to a survival rate of 7/14 rabbits. Six of the seven surviving rabbits presented full tumor regression and the absence of local or distant lung metastases.** Insufflation of pure oxygen (O2) resulted in a survival rate of 3/13 animals accompanied by full tumor remission in 2 of the 3 surviving animals. Of the 14 sham-treated animals only 1 had spontaneous tumor remission and survived. No adverse effects or changes in standard blood parameters were observed after repeated intraperitoneal insufflations of the O3/O2 or O2 gas. Animals with O3/O2-induced tumor eradication developed tolerance against reimplantation of the VX2 tumor. This could be reversed by immune suppression with a combination of dexamethasone and cyclosporin A suggesting an antitumorous effect of O3/ O2-mediated activation of the body's own immunosurveillance. Although the exact mechanisms of action are still unclear the present data point to O3/O2- pneumoperitoneum as a promising new strategy in anticancer therapy.

Int. J. Cancer: 122, 2360–2367 (2008)

# Ozone Therapy for Tumor Oxygenation: a Pilot Study

- Eighteen subjects were recruited for the study. Systemic ozone therapy was administered by autohemotransfusion on three alternate days over one week. Tumor oxygenation levels were measured using polarographic needle probes before and after the first and the third ozone therapy session. Overall, no statistically significant change was observed in the tumor oxygenation in the 18 patients. However, a significant decrease was observed in hypoxic values  $\leq 10$  and  $\leq 5$  mmHg of  $pO_2$ . When individually assessed, a significant and inverse non-linear correlation was observed between increase in oxygenation and the initial tumor  $pO_2$  values at each measuring time-point, thus indicating that the more poorly-oxygenated tumors benefited most ( $\rho = -0.725$ ;  $P = 0.001$ ). Additionally, the effect of ozone therapy was found to be lower in patients with higher hemoglobin concentrations ( $\rho = -0.531$ ;  $P < 0.034$ ). Despite being administered over a very short period, ozone therapy improved oxygenation in the most hypoxic tumors. Ozone therapy as adjuvant in chemo-radiotherapy warrants further research.
- [Evid Based Complement Alternat Med](#). 2004 Jun; 1(1): 93–98.

J Altern Complement Med. 2005 Apr;11(2):257-65.

Restoration of normoxia by ozone therapy may control neoplastic growth: a review and a working hypothesis.

Bocci V, Larini A, Micheli V.

### **Abstract**

In contrast to normal tissues, tumors thrive in hypoxic environments. **This** appears to be because they can metastasize and secrete angiopoietins for enhancing neoangiogenesis and further tumor spread. Thus, during chronic ischemia, normal tissues tend to die, while neoplasms tend to grow. During the past two decades, it has been shown in arteriopathic patients that ozonated autohemotherapy is therapeutically useful because it increases oxygen delivery in hypoxic tissues, leading to normoxia. Although several oxygenation approaches have been tested, none is able to restore normoxia permanently in patients with cancer. **We postulate that a prolonged cycle of ozonated autohemotherapy may correct tumor hypoxia, lead to less aggressive tumor behavior, and represent a valid adjuvant during or after chemo- or radiotherapy. Moreover, it may re-equilibrate the chronic oxidative stress and reduce fatigue.**

# Mechanisms and therapeutic effectiveness of pulsed electromagnetic field therapy in oncology

- Cancer is one of the most common causes of death worldwide. Available treatments are associated with numerous side effects and only a low percentage of patients achieve complete remission. Therefore, there is a strong need for new therapeutic strategies. In this regard, pulsed electromagnetic field (PEMF) therapy presents several potential advantages including non-invasiveness, safety, lack of toxicity for non-cancerous cells, and the possibility of being combined with other available therapies. Indeed, PEMF stimulation has already been used in the context of various cancer types including skin, breast, prostate, hepatocellular, lung, ovarian, pancreatic, bladder, thyroid, and colon cancer in vitro and in vivo. At present, only limited application of PEMF in cancer has been documented in humans. In this article, we review the experimental and clinical evidence of PEMF therapy discussing future perspectives in its use in oncology.
- [Cancer Med.](#) 2016 Nov; 5(11): 3128–3139.

# Hypothesis

- Could a combination of ozone and non-toxic but therapeutic metals, combined with Pulsed Electro Magnetic Frequency have synergy in the treatment of cancer?

# Methods

- 1. Patients were placed in an ozone steam sauna at relatively low temperatures. They were also exposed to carbon dioxide (carbonic acid) gas, selective Rife frequencies.
- Afterwards, their bodies were sprayed down with metallic (**NOT** ionic) platinum, gold and silver at 300 ppm each
- They were then placed on Pulsed Electro Magnetic Frequency blanket and/or Pulsed Electro Magnetic Frequency paddle, and the local area further sprayed with metallic platinum

# Results Patient 1

- 55 year old Filipino woman with Stage 4 lung cancer who came to clinic s/p lumbar vertebrae removal and cage insertion for collapsed vertebrae and in severe pain. Doctors had given up and told her to “get your affairs in order.” She arrived with walker in severe pain barely able to enter office
- She had received surgery, radiation, and chemo.
- After 8 weekly treatments, and supplements, she felt normal, except for the back surgery. No walker needed anymore. All toxicity from conventional therapy gone.
- Her scan surprised her oncologist who told her he felt remaining cancer had been reduced to scar tissue.

58 y.o. Filipino woman. Stage 4 non small cell lung cancer, non smoker. Very spiritual with complete faith in God.

Finished radiation April 2015 rod in back 2015 Received full dose radiation and nearly died from it. She had been in hospital nearly 1 year. She was unable to be home due to pain and on and off bleeding. She was maintained on Tarceva from then until now. Told to take it every day, but on her own, cut it to q 2-3 days.

We first saw her 7/6/17. No energy, unable to prepare her own meals, barely able to maneuver in office with a walker due to severe pain.

She had 9 treatments between 7/7 and 9/18

By 9/18/17 she was feeling essentially normal with lingering post lumbar rod discomfort. Living normally.

2-2-18 MRI “Stable post treatment change with L U lobe collapse and mediastinal shift to the L. There is scarring around the left major fissure. **No evidence for residual or recurrent disease.**

Her oncologist: “In my career, I have never seen this and I don’t have words to tell you. Most of my patients don’t last even two years

3 sauna/mineral treatments plus supplements, and continuing minerals by mouth.

# Results Patient 2

- 72 year old woman with stage 4 breast cancer to bones, and in severe pain, with several elevated tumor markers and high alkaline phosphatase.
- She had had 12 sessions IPT and did poorly, could not tolerate. Was very sick to stomach all the time, developed anemia and hair fell out.
- First saw us early 11/18. Within 4 weeks (weekly treatments) she was almost out of all pain and feeling great. All tumor markers fell sharply and inflammation marker dropped. Blood count was normal
- By March 2018, all numbers were in the normal range including alk phos which had started over 200. **She was feeling normal.**

- 9/11/17 CEA 12.4
- 11/07 alk phos 168 CA 19-9 3 CA 125 42 CA 27.29 82 CEA 3.5 CA 15-3 57
- 11/22,
- 11/27
- 11/29 alk phos 203 CA 19-9 3 CA 125 29 CA 27.29 63 CEA 2.1 Plates 334 CA15-3 32
- 12/6
- 12/12
- 12/18
- 12/29
- 1/8/18
- 1/22
- 1/29/18 alk ph 137 CA 19-9 <3 CA 125 38 CA 27.29 35 CEA 0.7
- 2/14
- 2/22
- 2/22 Alk phos 117 CA19-9 4.0 CA125 17 CA 27.29 37 CEA 1.1 PLATES 356

- <https://www.youtube.com/watch?v=kbQ6kj-tmWY>

# Results Patient 3

- 58 y.o. Russian woman with low pharyngeal cancer. Presented with severe inability to swallow. Told she needed laryngectomy, radical neck dissection, radiation. She refused what she considered mutilating therapies.
- We started the treatments and within 3 weeks she was swallowing with little difficulty. Swelling in L neck much improved.
- No studies at time of this writing due to finances.

# Sauna/ Pulsed Electro Magnetic Frequency /Minerals

- We have had one non-responder.
- Treatment very easy on patients, extremely well tolerated. Not too pricey.
- No apparent toxicity. Blood counts remain normal.
- Seemingly rapid improvement in the responders.