

## The Science Behind Ozonated Oils ☺

Two-time Nobel Prize winning Doctor, Otto Warburg, shocked the world when he revealed that most of disease is caused by insufficient oxygen levels in the body. In fact, his studies showed that if you deprive a cell of 35% of its required levels of oxygen for 48 hours, the cell is likely to become cancerous. That's why cancer is so widespread in our modern society — because most people suffer from Oxygen deprivation.

**Jessa has developed products for skin in order to compensate for lack of Oxygen on the biggest organ of the body. Was developed using the leading lab in the world who have been ozonating for over 20yrs.**

4th International Symposia on Ozone Applications 2004 every few years review applications of Ozone therapy attempting to figure out exactly what kind of mechanism is involved, which causes great healing on the body. **Díaz M. (Cuba)**, The ozonation of Sunflower Oil, Coconut Oil, Olive Oil and Theobroma Oil have been studied, during several years, in the Ozone Research Center. These oils have been converted in adequate carrier for ozone therapy, which have a great germicide power, being useful in Dermatology, Parasitology and Cosmetology. When vegetable oils, constituted fundamentally by triglycerides, are ozonized, several substances as ozonides, and peroxides are formed, these could be related with their biological effect. The aim of this work is to show a general panorama of the research in Cuba on ozonized vegetable oils and its use in the fields of medicine and cosmetology. **4<sup>th</sup> International Symposia on Ozone Applications - April 6<sup>th</sup> through 9<sup>th</sup> 2004, Havana City, Cuba.**

### **Comparative studies of ozonated olive oil and ozonated sunflower oil.**

Ozone has been used around the world for almost every ailment - Alzheimers, AID's, Hepatitis, Cancer, cardiovascular problems, heart attack, stroke, eczema, psoriasis, acne and more... The list is almost endless, taking into account their broad spectrum germicidal power. In this study the ozonated olive oil and ozonated sunflower oil are compared chemically and microbiologically. The peroxide, acidity and iodine indexes along with antimicrobial activity against *Staphylococcus aureus* ATCC 6538, *Echerichia coli* ATCC 10536, *Pseudomonas aeruginosa* ATCC 27853 and *Bacillus subtilis* ATCC 6633 were determined. The reaction products were identified using Proton Nuclear Magnetic Resonance (1H NMR). Ozonation effects on the fatty acid composition of these oils were analyzed using Gas-Liquid Chromatographic Technique (GLC). An increase in peroxidation index was observed in both oils.

### **How does ozone work?**

Ozone's appeal is that it has been found to be extremely safe in treatment settings. Clients rarely report any adverse reactions. Dosages are safe in a wide range, and the use of ozone is actually a very pleasant experience including a pronounced analgesic (pain relief) effect! Ozone destroys pathogens while it removes toxins/pollution. Ozone oxidizes toxins it encounters while on the skin or in the body; this helps to eliminate the toxins. The other point is that virtually all pathogens (virus, bacteria, fungus) have at least 1 part of their lifecycle as anaerobic (Unable to live in oxygen). Remember that ozone is O<sub>3</sub> while O<sub>2</sub> is the normal stable form of oxygen and ozone will return to that form. It will "give up" one atom of oxygen. This one atom of oxygen is negatively charged, and conveniently, most pathogens are positively charged, so they are attracted to each other. When that lone oxygen meets the pathogen, it destroys it. The pathogen is anaerobic, and cannot live with active oxygen. Ozone helps stimulate the immune function, increasing white blood cell counts and activity, along with other immune system responses. Ozone can flood the body or area with oxygen. A side effect of ozone therapy is that blood can hold more oxygen after ozone therapy than before the therapy, it has to do with elasticity of the cells, and oxygen retention.

## What is ozonated oil?

Ozonated oils are plant oils that are either completely saturated fully saturated with ozone or partially saturated “Fully Ozonated” Oils are the only type Jessa makes. The saturation of the oil is done by bubbling ozone through oils (olive, coconut, sunflower), in an ozone-safe container. When the ozone passes through the oil it is changed. A new gaseous substance is formed normally referred to as terpene gas. Unlike pure ozone, terpene is safe to breathe and terpene has been used for a variety of ailments. The process of creating fully ozonated oil continues until instead of terpene gas coming off the oil, you get pure raw ozone (meaning the oil will not hold any more ozone). The texture of the oil changes, often getting solid or waxy (depending on the temperature), Jessa is the only professional company that makes fully ozonated serums liquid form. This process can take quite awhile weeks. Oils hold quite a bit of ozone, so bringing them to saturation takes some time. The reaction results in a small amount of ozone, but more of a peroxide/ozonide being created and stored in the oil.

Part of the broad appeal of ozonated oil is that unlike ozone in the air or water, which lasts 6 to 45 minutes, ozone in oil can last 10 or more years if properly stored, extending the shelf life of regular oil.

Arguably the most powerful mind in the 20<sup>th</sup> century is credited with discovering ozonated oils. He is none other than Nikola Tesla. Tesla started marketing his oils to local doctors in the early 1900's.

Below you see the amount of ozone held by each of the products. The ozone is measured in molecular weight. The higher the weight listed below, the more ozone/peroxide it is carrying, and therefore the more powerful its benefits. The amount of fatty acids present in each type of oil before ozonation limits how much ozone it will hold. The higher the fatty acids, the more ozone the oil holds.

### Molecular Weight of Ozone in Product

Olive	approx. 13.9 gm per 100ml
Sunflower	approx. 13.6 gm per 100ml
<i>Examples of other oils Jessa does not ozonate:</i>	
Grape Seed	approx 9.3 gm per 100ml
Macadamia	approx 7.6 gm per 100ml
Coconut	approx 3.8 gm per 100ml

## Uses of Ozonated Oil

The list of uses studied uses for ozonated oil is quite large. Virtually any skin condition including acne, burns, sun burn, blisters, warts, poison ivy, poison oak, ringworm, toenail fungus, haemorrhoids, skin rejuvenator, very potent healing massage oil, bug bites and stings, cuts, scrapes, bruises. Other uses are on the gums for periodontal problems/disease, sexual lubricant, jock itch, fistulae, fungal problems, beauty cream, dandruff and age spots. The list gets longer as people experiment and find it to work wonders. **Do not put ozonated oils around or in the eyes.** Ozonated oils deliver oxygen therapy to the skin. The product will last 10+ years if stored properly (refrigerated).

Ozonated oil in the household can replace a cabinet full of medical supplies, because of its broad spectrum of effects. You can replace your burn cream, your fungal cream, your Neosporin, your acne cream, your beauty cream and your facial cream. Unlike most treatments, Ozone actually treats the cause of the problems, not just the symptom.