

Oxygen Medicine

Produced Naturally

In The

Human Body

Hydrogen peroxide (H₂O₂) is often called an intimate relative of **ozone (O₃)**.

Besides being identified in the form of a potent oxygenator as well as oxidizer, a particular attribute of hydrogen peroxide (H₂O₂) is its aptitude to willingly disintegrate into its basic elements – **water (H₂O)** and **oxygen (O₂)**.

Similar to ozone, hydrogen peroxide also easily reacts with different materials and possesses the ability to **eliminate bacteria, viruses, fungi, parasites** as well as *specific tumour cells*.

Hydrogen peroxide is naturally present in the biosphere of the earth - vestiges of this amalgam are often discovered in rain as well as snow. In addition, hydrogen peroxide has also been come across in several **healing springs** located in different regions of the world, counting **Lourdes in France, Fatima in Portugal** and at the **Quebec-based shrine of St. Anne**.

Hydrogen peroxide forms a vital constituent of plant life and minute quantities of this compound are also present in several fruits and vegetables. Besides plants, hydrogen peroxide is present in the animal kingdom too and is also concerned with several natural processes of our body.

In the form of an oxygenator, hydrogen peroxide has the ability to supply the blood as well as other important systems in different parts of the body with minute amounts of oxygen.

In fact, hydrogen peroxide does not deliver oxygen to the body just by generating reasonable amounts of oxygen but it possesses an **amazing ability to invigorate the oxidative enzymes** that contain the aptitude to alter the chemical element/ constituent of different substances, such as bacteria and viruses, while it itself remains unaffected.

Instead of supplying additional oxygen to the cells, the existence of hydrogen peroxide itself improves the cells' natural oxidative processes. This, in turn, augments the ability of the body to utilize the available oxygen.

Hydrogen peroxide (H₂O₂) is vital for our body, especially for the proper functioning of our immune system. In fact, white blood cells (called granulocytes), make hydrogen peroxide (H₂O₂) in the form of a first line of protection from bacteria, viruses, fungi and other parasites.

In addition, our body also requires hydrogen peroxide for the metabolism of ingested carbohydrates, proteins, fats, minerals and vitamins.

In effect, hydrogen peroxide is an offshoot of cell metabolism, which is dynamically broken down peroxidase, a regulator of the hormones as well as an indispensable part of the progesterone, estrogen and thyroxin produced by our body.

If all these do not seem to be sufficient enough attributes, hydrogen peroxide (H₂O₂) is also concerned with controlling blood sugar levels and also generating energy in the cells of our body.

"(H₂O₂) Hydrogen Peroxide

is naturally produced by

the human body for healing

and plays a pivotal role in

numerous cellular functions"

Hydrogen peroxide (H₂O₂) is usually treated as an intermediate or by-product of metabolism and considered of minor significance in metabolic pathways except as it relates to biochemical disruption, tissue or cellular damage. The majority of investigational studies seem to concentrate on the damaging effects of biological oxidation and the production of free radicals.

We feel the physiological effects of bio-oxidation and in particular, hydrogen peroxide (H₂O₂), should be investigated with a new prospect. From the 2,500 or more references on hydrogen peroxide (H₂O₂) we have collected and reviewed, we have come to appreciate this physiological product as an extremely important molecule in metabolism.

Hydrogen peroxide (H₂O₂) is produced by all cells of the body for many different physiological reasons.

The granulocytes produce H₂O₂ as a first line of defense against bacteria, yeast, virus, parasites, and most fungi. It is involved in any metabolic pathways which utilize oxidases, peroxidases, cyclo-oxygenase, lipoxygenase, myeloperoxidase, catalase, and probably many other enzymes.

Hydrogen peroxide (H₂O₂) is involved in protein, carbohydrate and fat metabolism, immunity, vitamin and mineral metabolism or any other system you might wish to explore.

Our studies demonstrate a positive metabolic effect to intravenous infusion of H₂O₂.

Its ability to oxidize almost any physiological or pathological substance, in addition to producing increased tissue and cellular oxygen tensions, has proven it to have therapeutic value.

We feel the evidence presented should stimulate a new appreciation in the study of the potential therapeutic application of bio-oxidative mechanisms ... **perhaps we have become myopic about biological oxidation!** - Charles H. Farr, MD, PhD

"A primary clinical objective in the treatment of Chronic Degenerative disease is to improve micro-circulation to relieve chronic tissue hypoxia."

- Charles H. Farr, MD, PhD

“(O3) Ozone

is naturally produced

in the human body

by antigen-antibody reactions

and becomes a pivotal factor in

destroying micro-organisms”

A greatly under-publicized article with momentous implications ([Wentworth 2002, Max 2002](#)) documented that **ozone (O3)** is indeed produced in the body in the context of immune function.

Ozone (O3) synthesis is triggered by antigen-antibody reactions, generated by activated neutrophils. At this molecular level, **ozone (O3)** thus becomes a pivotal factor in the neutralization of microorganisms.

The Scripps Research Institute (TSRI) President Richard A. Lerner, Associate Professor Paul Wentworth, Jr., Ph.D., and a team of investigators at TSRI is reporting that antibodies can destroy bacteria, playing a hitherto unknown role in immune protection.

Furthermore, the team found that when antibodies do this, they appear to produce the reactive gas ozone (O3 oxygen molecule).

"Ozone (O3) has never been considered a part of biology before," says Lerner - Lita Annenberg Hazen Professor of Immunochemistry and holds the Cecil H. and Ida M. Green Chair in Chemistry.

The ozone (O3) may be part of a previously unrecognized killing mechanism that would enhance the defensive role of antibodies by allowing them to subject pathogens to hydrogen peroxide (H2O2) and participate directly in their killing.

Previously, antibodies were believed only to signal an immune response.

This ability of antibodies to generate toxic compounds may also link them to a number of inflammatory diseases, such as **atherosclerosis, lupus, multiple sclerosis, and rheumatoid arthritis.**

Furthermore, this research opens up exciting possibilities for new antibody-mediated therapies for conditions ranging from bacterial and viral infection to cancer. ([Wentworth 2002, Max 2002](#))

"There is ample evidence for ozone's activation of cytokines. Ozone functions as a signaling agent by stimulating production of nuclear factor kappa B, interleukin 6, and tumor necrosis factor α ." (Bocci 2005)