

## Theoretical Magnetic Immunology

Humans are an electromagnetic organism. Both positive and negative magnetic fields are an inherent aspect of life energy. Biological life does not exist apart from magnetism. Magnetism is always a positive and negative pole. However, there do not have to be at the same gauss strength and obviously in humans they are not at the same gauss strength. The fact that human metabolism functions in an alkaline medium is evidence that the positive and negative magnetic poles are not equal in humans and in fact, a negative pole is higher than the positive pole. This has to be in order to maintain the alkalinity. Movement of a static electric field source of electrons produces magnetic fields. This biological production of magnetic fields develops with each catalytic joining of enzymes and substrates. When electrons move between enzyme and substrate, a magnetic field is produced. Likewise, an external static magnetic field moves electrons, producing a joining of enzyme and substrate (catalysis). The stronger the gauss strength, the stronger the catalytic reaction. Magnetism is two opposite energies that are mirror images. The static negative magnetic field spins electrons counterclockwise. This is a three dimensional spin. The higher the negative magnetic gauss strength, the faster the electrons spin and the higher the biological expressed energy. The positive magnetic field gauss strength, the faster the spin of the electrons.

The EEG provides evidence of the biological response to positive and negative magnetic fields and demonstrates that this is an opposite energy. A brain exposed to a static negative magnetic field reveals that the higher the gauss strength, the slower the pulsing field. This ranges all the way from 8 cycles per second for relaxation to 12 cycles per second for relaxation and 2 cycles per second for sleep to 1 cycle every two seconds for anesthesia.

The brain exposed to a static positive magnetic field pulses beyond 12 cycles per second. The higher the gauss strength, the faster the pulsing field. This positive magnetic field exposure to the brain is beyond 12 cycles per second and ranges to 22 cycles per second during mental activity to 35 cycles per second during a grand mal seizure.

Thus the EEG response establishes conclusively that separate biological energy systems produced by separate positive and negative magnetic fields. It can also be understood that pulsing sensory inputs can evoke specific magnetic field energy expression of the brain. The EEG tells us that the pulsing frequency is such as the non-stress (stress controlling), 8-12 cycles per second for relaxation, the 2 cycles per second for sleep and 1 cycle every two seconds for anesthesia. Thus we have two ways to drive the magnetic field of the brain, such as positive and negative magnetic fields and sensory and low gauss pulsing magnetic fields.

The natural pulsing of the brain, and thus also all cells of the body is dependent on cellular conductance. Cellular conductance is dependent on cellular mineral content. The higher the cellular mineral content, the greater the conductance. Conductance produces a vibrational pulsing frequency. The higher the mineral content, the higher the inherent vibrational pulsing frequencies. Microorganisms (viruses, bacteria, fungi and parasites) and cancer cells have a higher mineral content and thus a higher pulsing frequency than human cells which have a lower mineral content and thus a lower vibrational pulsing frequency.

There is a battle of electromagnetic energies between human cells, microorganisms and cancer cells. The one with the higher energy will win the battle between electromagnetic positives and electromagnetic negatives. Human cells are electromagnetic negative. Supplying exposure to a negative magnetic field supports the human negative electromagnetic field energy and blocks the microorganisms and cancer cells that are electromagnetic positive.

Human cells function is alkaline-dependent. Most human enzymes are alkaline-dependent and some, such as those producing ATP, are alkaline-hyperoxia-dependent. Oxidoreductase enzymes have the assignment of producing ATP and catalytic remnant magnetism (negative magnetic field) as well as processing inflammatory end-products of metabolism (free radicals,

peroxides, oxyacids, alcohols and aldehydes) and all endotoxins and exotoxins. It is very important to understand enzymes dependence on pH and cellular energy as an expression of conductance since the understanding of the minutia of immunology has ignored both pH and conductance. This seems very strange because there is an enormous amount of detailed understanding about immunologic reactions. Understanding these two factors gives immunology a new therapeutic life-energy dimension. The understanding of the two diametrically opposed magnetic fields of negative and positive is precisely where magnetic therapy makes its contribution to immunology and the therapeutic use of the immunologic mechanisms.

Some serious questions need to be asked and answered about pH and immunologic reactions:

Are both hormonal and cellular immunologic defense reactions acidic-dependent? Does the acidity precede the immunologic response or is the acidity the product of the immune defense response? It is possible that either can be true. It is certain that all immune responses are inflammatory and acidic and that all immune inflammatory responses are favorably influenced by alkalization.

Is it possible that a strong and evenly maintained alkaline pH can defeat microorganism invasion? Many patients report that while sleeping on a negative magnetic field bed that they no longer have colds, flu or evidences of infection.

Can we optimize systemic exposure to an external negative magnetic field and thus prevent infections invasions? We can successfully treat microorganism infections with a strong and sustained negative magnetic field and kill the microorganisms and kill cancer cells.

Is it possible that understanding the separate roles of conductance between the human cells and microorganisms can lead to understanding why a negative magnetic field is an antibiotic?

A static negative magnetic field biological response is alkaline-hyperoxia. A negative magnetic field attaches to bicarbonates, supporting their alkalinity. A negative magnetic field enzymatically processes inflammatory byproducts of oxidation reduction metabolism (free radicals, peroxides, oxyacids, alcohols and aldehydes) to molecular oxygen and water. Also, endogenous and exogenous toxins are likewise processed to molecular oxygen and water. Thus, alkaline-hyperoxia is a product of a negative magnetic field exposure to human metabolism.

A negative magnetic field biological response is anti-stress and thus controlling of all normal human cellular functions including the control over cellular replication, tissue growth and healing. On the contrary a positive magnetic biological response is stress and if sustained for any period of time, interferes with human cellular functions including cellular replication, tissue growth and healing. Robert O. Becker, M.D. has determined that healing only occurs in the presence of a negative magnetic field and is equally blocked by the presence of a positive magnetic field.

Microorganism cultures and blood cell cultures (virus and cancer) ignores pH as maintained by human metabolism and especially ignores conductance deficiencies between human cells and microorganisms. Even though there is some value in these cultures, the results can never be equated to an intact biological organism with these two defenses (pH and conductive) intact. All immune responses are biological stress responses and thus are measurably acid-hypoxic. A negative magnetic field biological response of the alkaline-hyperoxia can initially block and if present already, replace acidhypoxia with alkaline-hyperoxia.

Infections invading microorganisms are acid-producing and thus the constitutive defenses against invasion are inflammatory acid-producing as well as the immune defenses against the invading microorganism is acidifying. Cancer fermentation process is acid-dependent and also produces lactic acid.