Frequency Specific Micro Current Resonance Therapy

Living matter is highly organized and exceedingly sensitive to energetic information conveyed by coherent signals...

There are three types of energy we are concerned with when applying resonance or frequency specific micro-current stimulation: electrical, magnetic, and reticular energy.

Electrical currents are composed of microcurrents and infinitesimal currents. Micro-current is a faint electric current that is so small it is measured in millionths of an amp. By comparison a TENS unit and most other electro-therapies produce milliamps, 1000 times greater. Your own cells have very weak electro-motors that generate a current in the microamp range. This is the type of current that flows in nervous tissue as waves of depolarization. Infinitesimal currents are generated by an electric field of high voltage called static electricity. This form of energy occurs when we are insulated from a grounding conduction. This charge builds up and is sparked by removing the charge by touching a conductor.

Magnetic energy emits from a field and for our purpose of discussion can be generated by the flow of electrons in a conductor (Hall Effect). The lines of force are perpendicular to the flow of electrons and arrange themselves in space following curves which depend on the dimensions and the intensity of the emitting force. The effect of magnetic energy field appears to be neuro-vegetative (autonomic nervous system) and results in vasomotor modifications of irradiated tissue. Magnetic energy can be sustained or electromagnetic pulses produced by a generating device. There are therapeutic static magnets in the form of pads or bracelets people used to alter the flow of electrons in conductive tissue. This is probably only appropriate for unrelenting inflammatory conditions. Our office prefers to use intelligent feedback to regulate the amount of magnetic energy conveyed in biological fields after we first try to discover and eliminate the cause of the inflammatory stimulation.

Reticular energy has biological effects that can only be measured by vascular autonomic stimulation. It is propagated completely differently from magnetic energy. This energy adopts a direction given them. They lose energy and are compensated for by using electrical coils (inductors) traversed by a continuous or pulsed current. Biological tissue is perfect conductors for reticular energy. Because of its ease of propagation it favors the exchange of cellular information even to the most remote regions and through zones of interference.

The skin is covered with a polarizing energetic net that is irradiated continually by terrestrial magnetic fields influenced by variations in the universe such as solar spots. Each individual draws from his surrounding, following the state of his own proper network in health and disease. Some people so
affected in a disease state we call geopathic and are considered an interference zone. Another example is where individuals have an adverse body reaction when influenced by electric motors or cathode ray tubes (televisions). It is believed by some investigators that cellular messages, a true biological language, express and transmit themselves from cell to cell by this frequent reticular mechanism. In biological fields it does not disturb the balance of neuro-vegetative (autonomic nervous) system. It plays a more important role in modifying the pathological field. Magnetic energy seems to be more appropriate for modifying functional fields. Application of reticular energy finds significant variation in temperature in certain parts of the body. This has been verified by analysis with infrared thermography.

To understand how energy can be manipulated to produce therapeutic changes in the body we should look at the quantitative value of energies. A comparative case between an exhausted person who is tired could be compared to a weak battery. A 1.5 volt battery could, when it is new, have a voltage measured with a voltmeter of 1.6 or 1.7 volts. As the battery weakens with use or age it does not generate as much potential energy and will not light a light bulb very bright or very long. We can test this potential with a voltmeter. Measuring the energy potential of a human being is more difficult since there are factors of basal metabolism variability, as well as genetic heritage, gender, age, health, etc. We can essentially measure the human battery in the same way as a storage battery. We can apply a weak discharging load on our biological circuit and measure its potential energy to recover or hold a charge.

Similarly evaluating reactions of the vascular autonomic system, we are looking for is an approximate level of reserve energy in the cellular system. In an inflammatory condition there is an excess of energy much like an overcharged battery. This is a state of hypersensitivity. One only has to read the label of a battery to realize overcharging can produce explosive or permanent damage. Conversely a pathological state of chronic fatigue or exhaustion, there are distinctive changes in the ability to hold a charge or the amount of the change in biological filtration before a pulse reacts.

These discussions are important to understanding which microcurrent devices are safe and effective. The Electro-Acuscope is used by our office for specific frequency microcurrent resonance stimulation. It monitors the charge in the body and properly charges weakened systems but does not overcharge hypersensitive or systems driven by inflammation. This continuously monitored system of control is called servo feedback control and is similar to thermostatic control on an air conditioning system.

Further since pulsed microcurrent in the body can modulate (carry information) other frequencies, it is important to filter that information out if it is pathological or amplify that information which is supportive and healing. The Electro-Acuscope does not add information to these modulated frequencies. Because it utilizes the same signals it is interfaced with, its effects are homeopathic in nature. It is apparent by
observation of wave forms used in the Electro-Acuscope that there is a mode that utilizes amplitude modulation (AM) for long distance broadcast which is useful for broadcasting into tissue relatively far remote from the treatment site. There is also apparent frequency modulation (FM) for providing cleaner signal in noisy biological fields (interference_fields). Sometimes these devices are also referred to as constant voltage or constant current stimulators. Modulation is probably the most important concept to keep in mind for this part of the discussion since we are talking about biological information that is monitored or altered by treatment.

This concept of filtering carrier wave frequencies that modulate biological information is not unique to microcurrent stimulation devices in the world. We however, are not aware of any other instruments that do this in the United States that have FDA class 2 approval. This is because the Electro-Acuscope is able to conform to very specific instrument treatment guidelines as required by the United States FDA. Instruments, used in Europe that perform bio-resonance feedback utilize modulated information only that do not conform to FDA microcurrent stimulation requirements. The knowledge of how this instrument functions allows our clinic to utilize one device to deliver combination modalities in a single treatment session. This is more cost and time effective to the patient. Our staff traveled out of the United States to perform a comparative study with a MORA device which is a class III device that requires approval before marketing in the United States, and an Electro Acuscope. Our staff is trained and certified to use the MORA BRFT device. We find the Electro-Acuscope at least as effective and the with addition of microcurrent stimulation it can be more useful in treating functional problems as well as the combined advantage of acceleration of healing through acceleration of protein and DNA synthesis.

The Electro-Acuscope is not merely a tissue blaster with no control. To do so would potentially harm the body. We warn people not to purchase microcurrent stimulators from internet hucksters that market tissue ‘zappers’ or any other black box devices which have no FDA approval and are just cheap tissue blasters with no precision frequency or feedback control.

Microcurrent stimulation is a physiological electric modality that increases ATP (energy) production in the cells of your body. In doing so, this dramatically increases the tissue’s healing rate. The almost immediate response to the correct microcurrent suggests that other mechanisms are involved as well. Changes in the tissue are unmistakable: scars will often suddenly soften and are visibly reduced; trigger points contractures often become less painful and tense; visible swelling often drains within minutes when the “correct” frequency is applied. Because these tissue changes are so evident, collagen chemist have suggested some change are due to electrochemical changes altering chemical bonds such as breaking hydrogen bonds of lysine-lysine cross links of scar tissue. When these are replaced by hyleronic acid which is found in the ground substance of connective tissue, a structure more similar to healthy connective tissue is accomplished. In many situations the
observed changes are long lasting and in many cases permanent.

Specific microcurrent frequencies (called FSM for short) seem to induce specific effects on cells and other tissues. For example there is a specific frequency for nerves, a different frequency for muscles, another for tendons, etc. Specific resonance frequencies are available on the Electro-Acuscope that is thought to be good for cells, muscles, tendons, and nearly every aspect of your body. In addition to each tissue having its own unique frequency, there is a specific frequency for each condition. Thus there is a frequency for inflammation, a different frequency for scars, another to promote secretions, etc. To address the different processes required by the tissue involved, we need to assess the underlying mechanism or injury. The treating therapist needs to make changes to the resonating frequencies according to prescribed protocols we use for treating various conditions.

It is believed specific frequency microcurrent stimulation works on the principle of biologic resonance. A singer can shatter a glass when the note resonates with the crystal structure of the glass. Microcurrent frequencies seem to be able to resonate with biologic tissue when the frequency is correct. Certain specific resonant frequencies can also suppress unhealthy cellular function. Once the tissue is changed and stable, it seems to be able to stay in the new configuration with proper nourishment. Animal research confirms that the frequency to reduce inflammation reduces inflammation by 62% in a mouse model. Prescription drugs reduce inflammation by 45% in the same mouse research.

The use of frequency specific microcurrent is necessary in techniques such as auriculotherapy and auriculomedicine techniques. These methodologies use specific treatment points on the ear to treat reflex or resonance zones in the body. Whether this is for pain reduction or addiction abatement these procedures have widespread use and acceptance worldwide for treating various conditions. Utilizing acupuncture points without piercing with needles can be done by using the Electro-Acuscope and a specially calibrated spring loaded probe that disperses the correct current density to specific treatment points in a prescribed sequence. These protocols can also be used on odontin points on the gum tissue, as well as traditional acupuncture sites on the body. The more correct terminology for this treatment is meridian therapy since no needle puncture is done.

There are investigatory resonance devices that have tunable frequencies for destroying harmful tissue cells or parasites. Although we have seen these demonstrated at physics conventions, there are no FDA approved devices that allow this tunable function. Further the demonstrations we observed we delivered in a very unsafe manner that did not protect observers from potentially harmful irradiation. Stay away from these devices until they conform to safety guidelines of certification authority.
“Each cell, tissue and organ has an ideal resonant frequency that coordinates its activities.”

-James Oschman, PhD Dover, NH