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Electro Pressure Regeneration Therapy by Alfred J. Koonin, M.D.

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The human body runs on energy much the same as any electrical system. Each cell in our body is a miniature battery, and like any battery may need recharging from time to time. Early Chinese physicians discovered that there is an energy network traversing just below the skin, which communicates from the exterior to the internal organs and structures. This energy works in harmony with all the body's systems. When this vital energy becomes blocked or weakened, the effect on the body results in stress, fatigue and aging.

The Human Energy Field, (HEF), sometimes called the "Aura," is a complex combination of overlapping energy patterns that define the unique spiritual, mental, emotional and physical makeup of an individual. A person's Human Energy Field is the part of the Universal Energy Field associated with that specific individual. There are three basic ways of describing the HEF in terms of energy meridians, chakras and energy bodies.

Energy meridians are the internal energy pathways throughout the physical body that energetically connect a person's organs and their many subsystems (e.g., circulatory, endocrine, nervous, digestive, etc.). These energy meridians and specific points on these meridians are used in healing modalities such as acupuncture and acupressure.

The human body's energy flow courses over 12 meridians or channels that are normally well balanced. If a disruption of energy flow exists, it can alter the entire system. Restoring normalcy to the body's energy balance, by utilizing the body's energy meridian points, has been accomplished by many methods such as acupuncture, meditation and yoga.

A unique, bio-electrical device called the "Jai" has been developed that is based on the concept that the biophysics underlying the body's biochemistry also plays a significant role in regulating all of life's processes. There are about 75 trillion cells in a human body, each having an electrical potential across its cell membrane, similar to a battery. This "Jai" produces a wave-form that works by moving electrons through the body. The device is able to act as an antioxidant by producing a steady stream of electrons at a relatively low but constant concentration. Stress on the body results in the formation of toxins called free radicals. These free radicals have the ability to scavenge electrons from biological molecules such as DNA and thus cause mutations that can lead to diseases. This device has the ability to donate electrons to neutralize free radicals and thus protect the body from the harm of stress.

One must not confuse this device with the many other electrical healing devices. This is not a piezo-electric device, i.e., it does not work with a crystal. Rather it is a sophisticated device using state-of-the-art computer technology to produce a low, balanced current. It does not act as a magnet nor does it act like a TENS device. Many of these other devices act by "hitting" the body with jolts of electricity. This innovative technology, defined as "electro pressure regeneration therapy," acts by stroking the body gently with a smooth, soft action that will not traumatize. The current and frequency are at much lower levels than any other device on the market.

The technology used in the "Jai" is the same technology used in the clinical device for hospital or medical clinic use. This sophisticated machine (called the G4Z) can be set at different current levels that run on a very low frequency. The cycle frequency is set at 23 minutes. In clinical trials the G4Z device has been successful in producing cellular regeneration as well as treating pain, acute and chronic wounds.

In a study on patients with shoulder pain, the G4Z device was compared to a TENS device and a placebo. The results showed that the G4Z was far more effective than the others. Eighty-three percent of the patients had a significant (more than 50 percent) decrease in pain over a three-week period. Over the same period of time 62 percent of the TENS patients and 55 percent of the placebo patients had decreased pain. Range of movement of the affected shoulders also increased by a far greater percentage than with the other devices.

Preliminary results in the healing of chronic wounds have been remarkable, and studies are ongoing. Twenty-three decubitus ulcers, present for an average of 16.5 months and not responding to standard conservative treatment in a hospital setting, were treated with the G4Z. Of these, 100 percent showed response to treatment within a few hours of therapy. Seventy-four percent of chronic decubiti showed over 50 percent healing (average of 83 percent) after an average of 42.7 hours of treatment over an average of 13.3 days. From this preliminary report it can be seen that the results of treating chronic pressure sores with the G4Z does indeed indicate that healing and regeneration of tissue are stimulated more rapidly.

The ages of the patients treated ranged between 20 and 85 years of age. The patients were divided into three age groups: 20–50, 50–70 and more than 70 years of age. Many studies have shown that the rate of wound healing of individuals is directly proportional to their age. It was determined that treating chronic skin ulcers with the G4Z eliminated the age factor by equalizing the healing rate at all ages. The only limiting factor in healing time with this method seems to be the duration of the lesion. In aging there is a decrease in melatonin and serotonin and an increase in cortisol. Quantitative measurements done on the concentration of these hormones showed that in patients treated with the G4Z, the levels of melatonin and serotonin increased, while that of cortisol decreased. It is well known that the rate of wound healing is inversely proportional to the age of the individual. It can be seen that the age factor in healing seems to have been neutralized by this therapy.

From what we know about the effects of free radicals and the mechanism of antioxidants in neutralizing them, we can see a remarkable similarity in the action of the ultra-low currents used in the studies. The steady flow of electrons in a relatively low concentration appears to act exactly as one would expect from any antioxidant. The fact that these electrons are focused on a small region of the body may explain why healing changes appeared so rapidly. The actual regeneration of the tissue, coupled with the absence of the age factor in healing and the concomitant improvement noticed in the patients' general condition all point to a highly-potent antioxidant effect on the local tissues as well as generally. It is felt that there is enough evidence to show that a low concentration steady stream electron flow, produced in the manner described, acts as a highly-potent antioxidant that can be focused to any area of the body.

The process of the G4Z in wound healing is characterized by the appearance of a drop of clear fluid in the wound itself, ranging in size from a pinhead to a match head. The formation of dull brown strips across the droplet slowly change to dull pink and then into new epithelialization. Another droplet appears and the process is repeated. The wound fluid appears in as little as 10 minutes of the start of the second cycle of the treatment. There appears to be an increase in blood flow in the area treated as indicated by the change in color from pink to red.

Functional analysis of wound fluid found that it increases the proliferation of fibroblasts and endothelial cells. Wound fluid stimulates collagen synthesis and induces angiogenesis independent of the endothelial cell proliferative stimulus. During the healing of chronic wounds stimulated by the G4Z it was noted that necrotic tissue disappeared spontaneously and was replaced by healthy, healing tissue. At no time was surgical debridement necessary.

From this technology the smaller, portable device (called the "Jai") was developed. This device is the first non-invasive method for home use of achieving an increase in cellular energy by using electrical currents at the same ultra-low levels at which the healthy body would normally. It is a portable energy enhancer no larger than a pager and powered by a 9V battery. The ultra-low current emitted by the unit is transferred to the body via wraps applied to selected areas of the body. Unlike the G4Z clinical device, the "Jai" is set at only one current. This current has been chosen because it appears to give optimum effects in enhancing the energy meridians in normal, healthy people. It appears to balance the electrical systems of the body, enhance the energy meridians and generally allows individuals to produce optimum performance in their daily routines.

This portable home unit connects to the body via unique wraps that may be applied to the hands, wrists, ankles or feet. These wraps are soaked in tap water. Water is an important component of the system, as the currents are projected through it. The system uses water because up to 80 percent of our bodies are water and water contains the necessary electrical patterns to adapt a conventional electrical charge to a bio-charge. When the unit propagates its current through the water, it generates a bio-field similar to that of a living organism. The

advantage of creating this compatibility is that the therapy can be used on a living organism with minimal disruption, eliminating side effects that are all too common with artificial protocols. The only naturally occurring substance with this property is water, which creates a synergistic action with the electric current to produce the bio-charge. This bio-charge is the product of the water combined with the electrical current and the individual's body.

Physicians, psychologists, professional and personal trainers and private individuals utilizing the Jai electro pressure regeneration therapy device have reported the following benefits:

- The unit is an energy enhancer. By unblocking the body's energy channels, it allows energy to flow naturally and thus balances the energy meridians of the body.
- It eliminates the effects of minor aches and pains and minor soft tissue injuries. It has a mild analgesic and anti-inflammatory effect. Minor injuries, such as cuts and bruises, appear to heal quicker. Mild aches and pains disappear much quicker. Sprains and strains seem to clear up at a faster rate than would normally be expected. These effects allow individuals to return to their activities sooner.
- For the casual sports person or even serious athletes the portable unit may be used before and after exercise. It can add endurance to one's activities and will help one unwind afterwards. Sports injuries seem to occur less often and when they do occur, recovery takes place at a much faster rate than normal. Swelling, bruising and pain appear to decrease more rapidly.
- It acts as a mood elevator. It will give one a feeling of well-being. It works well with mild depression. Its actions are not unlike those of a very powerful antioxidant. Thus it allows the wearer to feel energized, relaxed and ready to deal with the stresses of living in modern society.
- The unit has the ability to produce physical effects similar to those produced by meditation. As such it can also act as a meditation enhancer in those who pursue that activity.

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