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### **Tennant Biomodulator PLUS**

#### **Practical Applications of the use of Electronic Bio-feedback for Pain and Inflammation.**

The Tennant Biomodulator has FDA acceptance for: Symptomatic relief and management of chronic, intractable pain, and adjunctive treatment in the management of post-surgical and post-traumatic pain. Research on the Tennant Biomodulator's efficacy has been published in national journals and it is currently being studied within a military medical facility to treat soldiers who are experiencing acute and chronic pain issues.

#### **Retrospective examples of patient results:**

The following case histories have been drawn from a large pool of patient narratives collected by MDs who are using the Tennant Biomodulator device. These stories can be verified and are on file at Dr. Tennant's clinic.

- A soldier had seven operations on his wrist for a war injury that sliced his nerve and tendons. He developed a severely painful condition known as Reflex Sympathetic Dystrophy. He could not even allow a shirt sleeve to touch his wrist and he was on chronic pain medications. His hand was white, swollen, and he had movement of only his thumb and index finger. After treatment with the Tennant Biomodulator, the soldier stated that he could move his fingers and the pain was gone. Treatment occurred within a Military facility in Texas. Soldier requested further treatments with the Tennant Biomodulator.
- A soldier who had leg amputated was experiencing severe phantom pain. After treatment by the Tennant Biomodulator Physician, the soldier stated that 80-90% of his pain was reduced by the therapy.
- A 60 year old patient had the neck fused. Patient continued to have pain and could only rotate the neck a few degrees to the left and right. After being treated with the Tennant Biomodulator, the patient stated they could turn the neck normally and the pain was 90% reduced.
- A 50 year old harpist was in an auto accident that caused her to lose about three inches of her right clavicle. She had had multiple surgeries but still had significant pain and restriction of motion of the right arm. She was treated with the Tennant Biomodulator. She then demonstrated that she could then raise the arm over the head without pain. The next day, she played the harp for the first time since her accident, a period of about three years.
- 50 year old with a 25 year history of severe migraine headaches as diagnosed by a neurologist. Headaches lasted as long as ten weeks, required 5 different prescription medications and frequent trips to the emergency room. After Tennant Biomodulator therapy, migraines are now infrequent and never last more than a couple of hours.
- Patient diagnosed with a crushed tibia. Original prognosis; six to eight weeks of recovery time before attempting to walk. After three weeks of treatments with the Tennant Biomodulator therapy, patient entered physical therapy to begin to walk. The final X-rays showed rebuilt solid bone where it had been crushed.
- Patient unable to raise arm over head for several weeks; After Tennant Biomodulator session on the shoulder girdle, patient had complete range of motion in shoulder within the following hours.
- Patient suffering from Fibromyalgia for seven years causing severe pain in neck and both shoulders. A week after treatments with the Tennant Biomodulator, patient report that pain was almost non-existent.

## Treatment of Pain with the Tennant Biomodulator®

To understand how pain can be resolved electronically, we present the following points:

1. Every cell in the body is designed to run between 20 and 25 millivolts.
2. Healing is accomplished primarily by making a new cell.
3. Making a new cell requires 50 millivolts and all the nutrients required to make a cell.
4. At 50 millivolts, blood vessels dilate to dump proteins, fats, carbohydrates, and other nutrients required to make new cells. Thus during the process of making new cells, the tissue is red, swollen, warm, and has a pulsing pain.
5. As soon as enough new cells are made to replace the damaged or injured cells, voltage returns to normal operating voltage of 20-25 millivolts and pain goes away.
6. If the body cannot achieve 50 millivolts, or if the body runs out of voltage before all new cells are manufactured, voltage drops below 20 millivolts. One has chronic pain with chronic disease.
7. A way one can resolve the pain or the chronic disease is to insert enough electrons to move the voltage back up to 50 millivolts.
8. Note that the pain that occurs when the body is actively trying to heal is a throbbing pain of 50 millivolts. The pain of low voltage, chronic disease, is simply a pain that hurts all the time.
9. Using the Tennant Biomodulator®, one can measure the tissue to determine the amount of voltage present. If the voltage is low, one can insert electrons with the Biomodulator® to raise the voltage back up to 50 millivolts so that healing can occur. Thus pain disappears because of healing, not because the brain doesn't know the area no longer hurts.





Blocking the brain's ability to know that tissue is degenerating and painful is the normal mechanism-of-action of pain medications, TENS machines, implanted pain blockers, and other commonly used pain therapies.

For an example, consider that my thumb reads as 25 millivolts. Now I hit it with a hammer. My thumb will immediately go to 50 millivolts so it can make new cells to replace those injured by the hammer. It is red, swollen, hot, and has pulsing pain because the dilated vessels are dumping new nutrients into the area to make new cells. As it finishes replacing the damaged cells, the thumb will return to being pink and have normal voltage.

If, however, it exhausted its voltage before all the new cells could be made or if it couldn't reach 50 millivolts in the first place, it now has chronic pain that hurts all the time. It can never get well with medications or surgery because it cannot make new cells. Thus it is stuck in chronic pain.

Measuring it with the Tennant Biomodulator® and then using the Biomodulator to insert electrons with the proper voltage and frequency allows one to raise the voltage to 50 millivolts. It makes new cells and is thus healed and the pain is permanently gone.