

An in-depth view of how the Acuscope and Myopulse can optimize the body's healing process, by Mattie Grace Stivers.

The Acuscope and Myopulse do not directly "heal" the body; rather, they function as sophisticated tools that support, optimize, and accelerate the body's inherent capacity for self-repair and regeneration at the cellular and tissue levels. They achieve this by delivering targeted microcurrent that normalize physiological function and enhance the conditions necessary for healing.

Here's how each instrument specifically aids the body in healing:

How the Acuscope Aids Healing:

The Acuscope primarily aids the body in healing by **normalizing the electrical potential and function of nerve cells and nerve pathways**. When nerve tissue is injured or inflamed, its normal electrical charge (transmembrane potential) can be disrupted, disrupting communication and contributing to pain.

1. *Restoring Cellular Electrical Balance*: The Acuscope's advanced biofeedback system identifies areas of abnormal electrical impedance in nerve tissue. It then delivers a precise, bio-compatible microcurrent that helps to re-establish the optimal electrical charge across the cell membranes of neurons. This normalization of electrical potential is crucial for proper nerve impulse transmission and helps to reduce neural irritation and improve nerve communication.
2. *Reducing Neuro-Inflammation*: By restoring normal electrical function, the Acuscope helps the body to reduce inflammation within nerve tissues. This effect is mediated by influencing cellular ion channels (like voltage-controlled calcium channels), which can lead to the modulation of inflammatory processes and the release of beneficial neuro-modulating substances, thus calming overactive nerve signals.
3. *Facilitating Nerve Recovery*: The optimal electrical environment created by the Acuscope supports the body's intrinsic ability to repair damaged nerve fibers and promotes an environment conducive to nerve regeneration where possible, ultimately aiding in the restoration of nerve integrity and reducing neuropathic pain.
4. *Optimizing Sensory Nerve Response*: By "tuning" the electrical characteristics of sensory nerves, the Acuscope helps them to respond more appropriately to stimuli, addressing hypersensitivity or improving sensation, which contributes to the overall restoration of nerve function.

How the Myopulse Aids Healing:

The Myopulse primarily aids the body in healing by **optimizing the cellular environment and metabolic activity within soft and connective tissues (muscles, tendons, ligaments, fascia), providing the necessary resources and conditions for these structures to repair themselves**.

1. *Enhancing ATP Production:* The Myopulse significantly enhances adenosine triphosphate (ATP) production within the cells, potentially by up to 500%. ATP is the primary energy currency for all cellular processes. This surge in available energy is critical because healing is an energy-intensive biological process. *Increased ATP fuels all stages of tissue repair, including cell division, protein synthesis, and active transport mechanisms necessary for clearing waste and bringing in nutrients.*
2. *Promoting Protein Synthesis:* The microcurrent delivered by the Myopulse stimulates protein synthesis, which are the fundamental building blocks of new tissue. By accelerating their production, **the Myopulse directly contributes to the rebuilding and strengthening of damaged muscle fibers, collagen, and other structural components of soft tissues**, thus helping to prevent muscle atrophy and accelerating tissue repair.
3. *Improving Cellular Membrane Permeability and Nutrient Exchange:* The microcurrent improves the permeability of cell membranes, allowing for more efficient uptake of vital nutrients and oxygen, and more effective removal of metabolic waste products. This optimized cellular environment is essential for rapid and healthy tissue regeneration.
4. *Facilitating Scar Tissue Remodeling:* The specific waveforms of the Electro-Myopulse help to remodel and break down rigid scar tissue and adhesions, improving the elasticity and flexibility of injured tissues. *This is a crucial aspect of promoting complete healing, as it restores range of motion and prevents chronic tightness and pain.*
5. *Optimizing Circulation and Lymphatic Flow:* The microcurrent therapy indirectly promotes increased localized blood flow and lymphatic drainage. Better circulation delivers more oxygen and nutrients to the healing tissues, while enhanced lymphatic drainage removes inflammatory byproducts, both of which are vital for accelerating the overall healing process. Waste chemicals being eliminated is a vital process to help carry away toxins that build up as a result of acute or chronic injury.

Reduction of pain and inflammation is accomplished by stimulating a central analgesic pathway, promoting the release of chemicals like serotonin, dynorphin, and serotonin. The release of arachidonic acid from damaged plasma membranes, which synthesize prostaglandins, aids in the release of other substances, such as histamine and bradykinins. The primary law of physics requires that energy flows in the path of least resistance. The body has enough energy to produce the desired effect (healing), but impedance (and electrical resistance) are so high in the area of involvement, current flow will not be able to enter the location of pathology. In the case of inflammation and the inflammatory process, the body is more able to heal because excess energy and heat that is expelled from the injury is not rendered useless and is thereby extended to the surrounding tissues, rather than just the area of pathology.

In essence, both instruments **support** the body's inherent healing capabilities by addressing cellular imbalances, providing necessary energy and resources to the body. Stimulating the intracellular mechanisms (namely increased ATP) that repair damaged tissues, and creating an optimal physiological environment for tissues to repair and restore themselves to a state of homeostasis, thereby resolves dysfunction and alleviating pain. Therefore, they (The Electro-Acuscoe and Myopulse) support the body's innate healing capability since the body

wants to be in balance, but they do not **directly** heal the injury or condition. However, **electricity is required in minuscule quantities by the cells to provide energy for the regenerative process. The Acuscope is not designed to treat any condition or cure disease process, but is made to provide the appropriate electronic environment which most effectively activates the body's own mechanisms of self-repair.**

Research available by searching online. This information was reiterated/written by Mattie Grace Stivers on July 1st, 2025.