



High Tech Healing: The Role of Voltage and Frequency in Health

Exploring the role of bioelectricity, voltage, and frequency in human health

Presenter: Danielle Palmer, CNMT & BioFrequency Specialist

Disclaimer: *This presentation is for educational purposes only. I do not claim, nor do any of the devices or technologies I speak about claim to treat, cure, diagnose or prevent any disease. The information shared is based on emerging scientific research, which is not yet widely accepted by conventional medicine.*

YOU ARE AN ELECTRICAL BEING

Every heartbeat = electrical depolarization

Every thought = action potentials

Every contraction = ion exchange

Every ATP molecule = electrochemical gradient

“Electrical BEFORE Chemical”





Going off the rails...

Your body functions like an electrical train system.

- Nutrients serve as the cargo.
- Voltage is the engine.
- Frequency aka your “software” serves as the track or guidance system
- Why are we focusing on the cargo when we don't have an engine to get it there?

The Body is an Electrical System

- 1 Every cell functions like a tiny battery
Every type of cell has a specific voltage level.
- 2 To heal, cells must reach a higher charge
This increased voltage is necessary for proper cellular regeneration and repair.
- 3 Chronic disease occurs when voltage drops below optimum levels
This voltage disruption leads to cellular dysfunction and various health issues.

Citations: Becker, R.O. (1998). The Body Electric; Funk et al. (2009).

Electromagnetic effects on cell membranes and healing. Journal of Cellular Physiology.



Why the -20 to -25 Model Was Beneficial

Simple models are often the first doorway into deeper physiology.

- It simplified complexity.
- It gave practitioners a target
- It made bioelectricity actionable

Your Body: Cells, Cells and More Cells

To understand health, we can view the body as the most sophisticated computer in existence, with distinct components that work together. If any part of this system is compromised, the output—our overall health—will be affected.

RBC's -70%

Red Blood Cells make up the majority of cells in the body.

Glial Cells- 8%

Non-neuronal cells found in the central and peripheral nervous system that provide protection and support for neurons.

Endothelial, Fibroblasts, Platelets 4-7%

Accounting for 4-7% respectively Endothelial cells (7%), Fibroblasts (5%) and Platelets (4%)

Bone Marrow 2%, Other 3%

The two types of cells that make up the least amount of our body are Bone Marrow and “other” cells that fall into such a small percentage it is better to clump them into one.

Human Cells- Resting Membrane Potentials

- Red Blood Cells: -10mV
- Platelet: -55mV
- Endothelial: -17mV
- Fibroblast: -16mV
- Bone Marrow: -29 to -35mV
- Neurons: $\approx$ -65 to -70 mV
- Skeletal muscle: $\approx$ -88 mV
- Glial Cells: -40mV
- Mitochondria: -150 to -190mv



Boron & Boulpaep, 2017

Voltage is Tissue Specific



Each tissue has a specific voltage range that is tied to its function.

- Differentiation correlates with hyperpolarization
- Cellular voltage varies greatly by type.
- Forcing a single number ignores physiology entirely.

“The body is electrical, it's just not electrically uniform.”



Cellular Voltage & Healing



Voltage determines cell function
& repair
(phase angle)



Cells generate electricity
through:

- Sodium-Potassium (Na^+/K^+) pumps
- Mitochondria (ATP production)
- Piezoelectricity (movement-induced charge)



Low voltage = low oxygen, poor
healing, & chronic illness

Citations: Levin, M. (2020). Bioelectric signaling in regeneration and cancer. Nature Reviews Molecular Cell Biology.

Chronic Disease & Low Voltage

Low voltage is linked to:

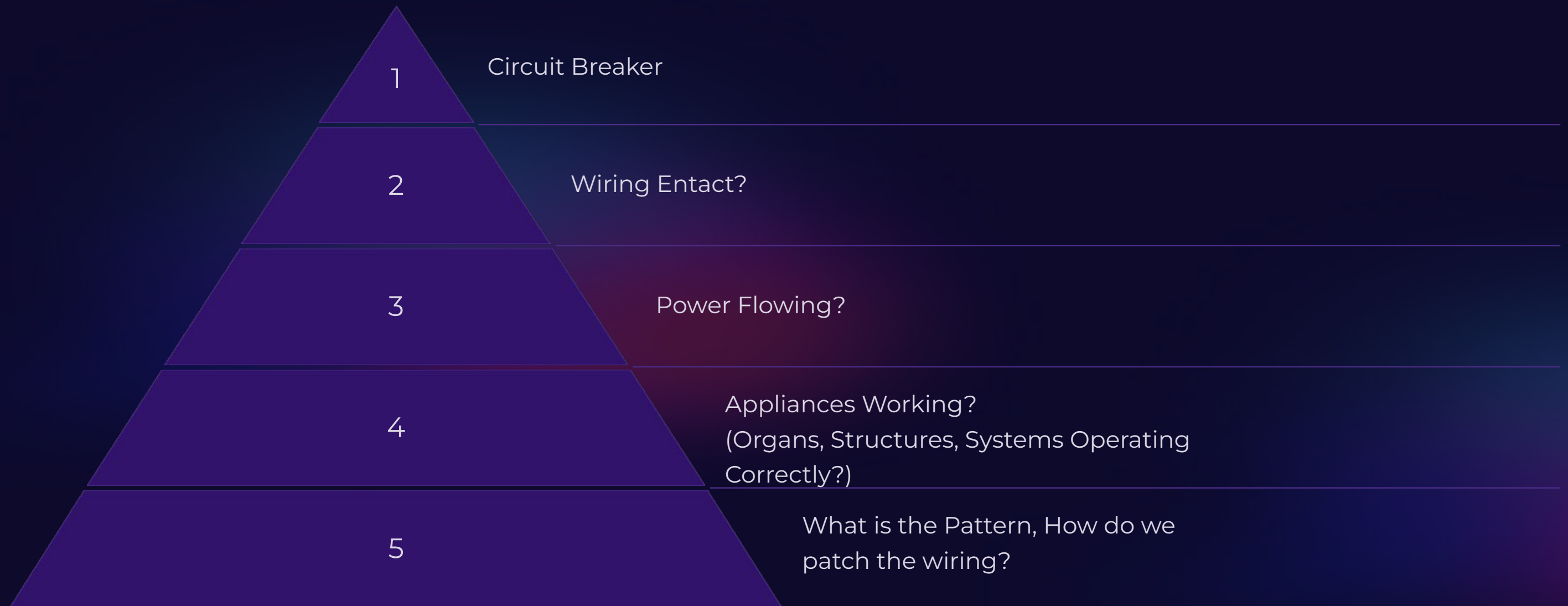
- Chronic fatigue, persistent pain, and widespread inflammation throughout the body
- Autoimmune diseases, where the body attacks its own tissues
- Organ dysfunction, affecting the liver, kidneys, and other vital organs
- Impaired detoxification processes
- Increased susceptibility to infections

Voltage disruptors:

- Scars and Tattoos
- Thyroid Dysfunction (T3)
- Toxins:
 - -Environmental pollutants, mold, pesticides, EMFs from electronic devices, heavy metals like mercury and lead
- Poor nutrition, lacking essential vitamins and minerals, chronic infections, and physical injuries
- Emotional trauma & chronic stress, affecting hormonal balance and overall health
- Dehydration, hindering cellular functions
- Lack of sleep, disrupting the body's natural repair mechanisms

Citations: Becker, R.O. (1998). The Body Electric; Firstenberg, A. (2020). The Invisible Rainbow.

Our Body = Our House



*We do not TREAT, CURE, DIAGNOSE or PREVENT any disease or illness.

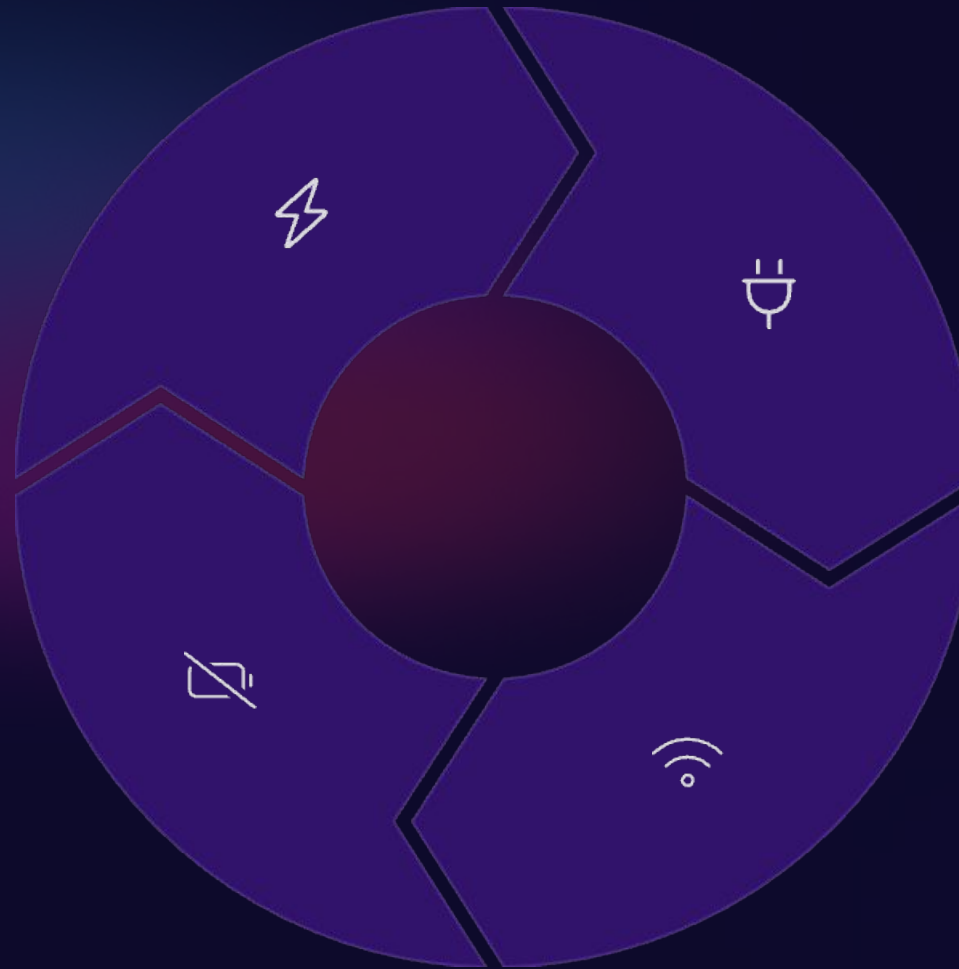
The Body's Electrical Circuitry

Piezoelectric Effect

Muscles generate voltage via movement

Circuit Blockages

Dental issues, scars, toxins, thyroid dysfunction, emotional trauma
"Holes in your bucket"



Fascia as Wiring

Acts as the body's wiring system

Acupuncture Meridians

Function as information super highways

Citations: Langevin, H.M. (2016). Fascia as an electrical network. Journal of Bodywork & Movement Therapies.

A glowing blue bucket with multiple holes, leaking energy. The bucket is filled with a bright blue, ethereal light that flows out of the holes and spills over the top. The background is dark with scattered blue and white particles, giving it a cosmic or digital feel. The bucket itself has a metallic, textured appearance with some glowing blue spots.

The "Leaky Bucket" Syndrome

Your body is like an electrical bucket. Energy flows in and out constantly. The bucket is supposed to stay full but various factors allow it to drain faster than it fills.



Energy Inputs

Proper nutrition, hydration, sleep, and positive emotions charging cellular batteries.



Energy Outputs

Toxins, EMF exposure, emotional stress, and physical trauma create energy drains.



Healing Challenge

You can't fill a leaky bucket. Address the holes before attempting to recharge.

Cellular Communication: Beyond Chemistry

Voltage Signaling: Cells create electrical gradients across their membranes, enabling rapid and direct communication across tissues. This method allows for faster responses than traditional chemical signaling, proving vital for processes that demand immediacy, such as nerve impulse transmission and muscle contraction.

Ion Channel Communication: Voltage-gated channels open and close in direct response to electrical signals, triggering precisely timed cascades of cellular responses. This mechanism allows cells to fine-tune their activities and modulate signaling pathways according to the body's immediate needs, ensuring both efficiency and accuracy in cellular communications.



Resonance: The Healing Frequency

1

What Is Frequency?

Frequency can be described as the number of waves within a period of time.

i.e. 15hz is 15 waves in one second.

2

What is Resonance?

Resonance is the phenomenon where an object or system **vibrates at its natural frequency** when exposed to an external force or frequency that matches or is harmonic to its own. It results in an **amplification of energy** within the system.

Quantum & Biological Resonance: Certain frequencies can influence **biochemical reactions, cellular communication, and healing processes** by aligning with the body's natural frequencies (**Gerber, 2001**).

3

Resonance in the Body

Every single structure and function within your body has a specific frequency. When the frequency of a structure is emitted by a device it will only effect that specific structure or function and nothing else.

Good Luck

How Do We Fix It?

- Drugs, most supplements, and IV therapies offer limited success in chronic conditions.
- They often target or attempt to address symptoms without fixing the underlying cause or improving electrical imbalance.
- True healing requires restoring the body's electrical foundation first.
- Chemical therapies work best after cellular voltage has normalized.

Senergy's Biomodulator®



The future of optimization lies in interacting with the body's signaling layer. Responsive microcurrent platforms are designed to do just that.

- Precision Microampere Signaling
- Real-Time Impedance Feedback
- Peripheral Neuro-Regulation Interface
- Designed to Influence Coordination - Not Override It

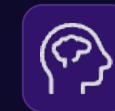


The Brain: Biomodulator®

The Senergy Biomodulator® delivers precise microcurrent frequencies to restore healthy cellular voltage.



Voltage Restoration



Biofeedback
Technology



Non-Invasive Treatment

How the Biomodulator® Works

Microcurrent Therapy

Emits pulsed, damped biphasic waveforms in the microampere range (20–500 μ A)—similar to the body's natural electrical currents.

Unlike TENS (which uses milliamps), microcurrent does not force nerve depolarization, but instead gently interacts with the nervous system and tissues to restore normal function.

Real-Time Biofeedback System

Continuously adjusts electrical impulses based on tissue impedance measurements, ensuring customized and dynamic stimulation.

Prevents the nervous system from "tuning out" the stimulation, making treatments more effective over time.

Neurological and Pain Modulation

Activates C-fibers and sensory nerves, triggering the release of natural painkillers like endorphins, enkephalins, and endocannabinoids.

Engages descending pain inhibitory pathways, reducing the brain's perception of pain.

Works via the gate control theory by blocking pain signals at the spinal cord level.

Citations: Cheng, N., et al. (1982). Effects of microcurrent on ATP generation. Clinical Orthopaedics and Related Research.

Different Delivery System: BioTransducer Crystal Wave Pro ®

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- This advanced attachment creates coherent energy fields that penetrate deeper into tissues, optimizing cellular communication and voltage restoration.
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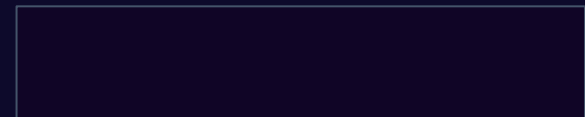


Questions?

Thank You for exploring the science of bioelectric healing with us today.

Special thanks to Senenergy Wellness Group for advancing biomodulation
technology!

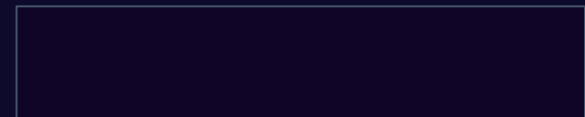
The Frequency Therapist





PART 2:
Technology Deep Dive

The Frequency Therapist



Senergy's Biomodulator®



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- Precision Microampere Signaling
- Real-Time Impedance Feedback
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Microcurrent vs. TENS: Not All Electrical Stimulation Is the Same

MICROCURRENT

Measured in microamps (μA)

Very low-intensity electrical current

- Typically <1 milliamp, often below the threshold of sensation.
- Designed to deliver sub-sensory electrical stimulation.
- Research is investigating effects on cellular signaling, tissue repair, pain, and healing processes.
- Usually little to no sensation and does not require a visible muscle contraction.
- Think: “communicating with the tissue.”

TENS

Typically measured in milliamperes (mA)

Higher-intensity electrical stimulation

- Uses enough current to stimulate sensory nerves through electrodes placed on the skin.
- Primarily used for pain modulation/temporary pain relief.
- Usually creates a noticeable tingling or buzzing sensation.
- Depending on parameters, stimulation can approach motor thresholds, although conventional TENS is generally intended primarily as sensory stimulation.
- Think: “stimulating the nervous system.”

Takeaway

TENS uses a stronger electrical stimulus to influence nerve signaling.

Microcurrent uses much smaller currents—often below sensory threshold—to interact with bioelectrical processes in tissue.

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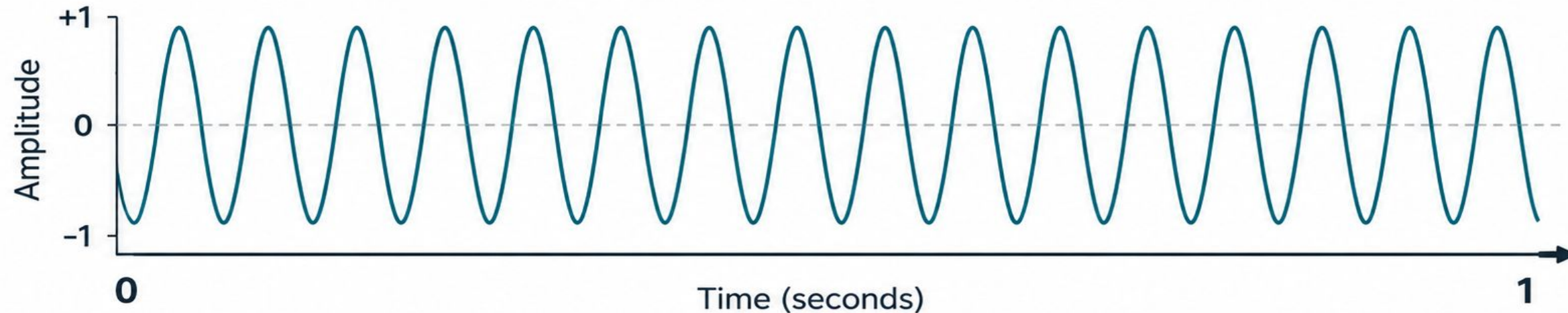
Resonance in the Body

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What is Frequency



15 Hz = 15 wave cycles in 1 second.



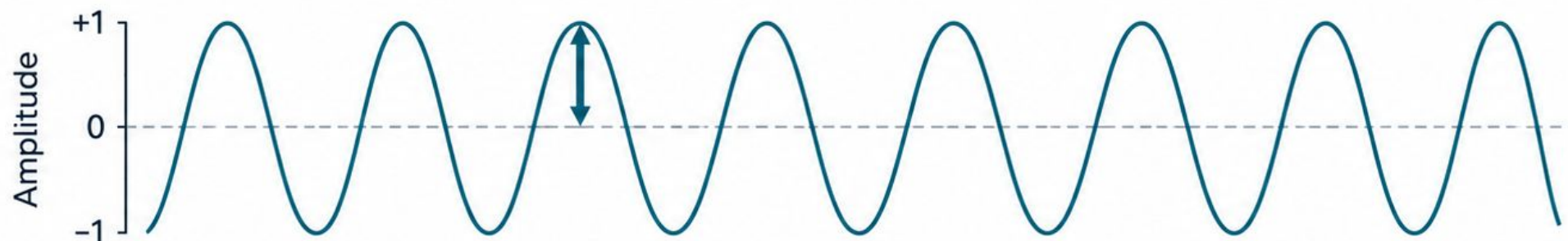
Remember: Frequency describes how many times a waveform repeats each second.

Amplitude

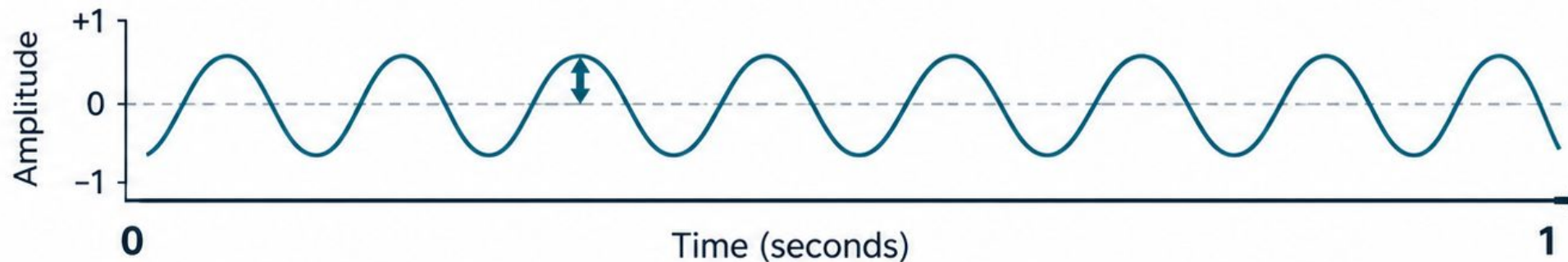


Amplitude describes the height or size of the waveform.

**High
Amplitude**



**Low
Amplitude**



Remember:

Amplitude describes the height or size of the waveform.

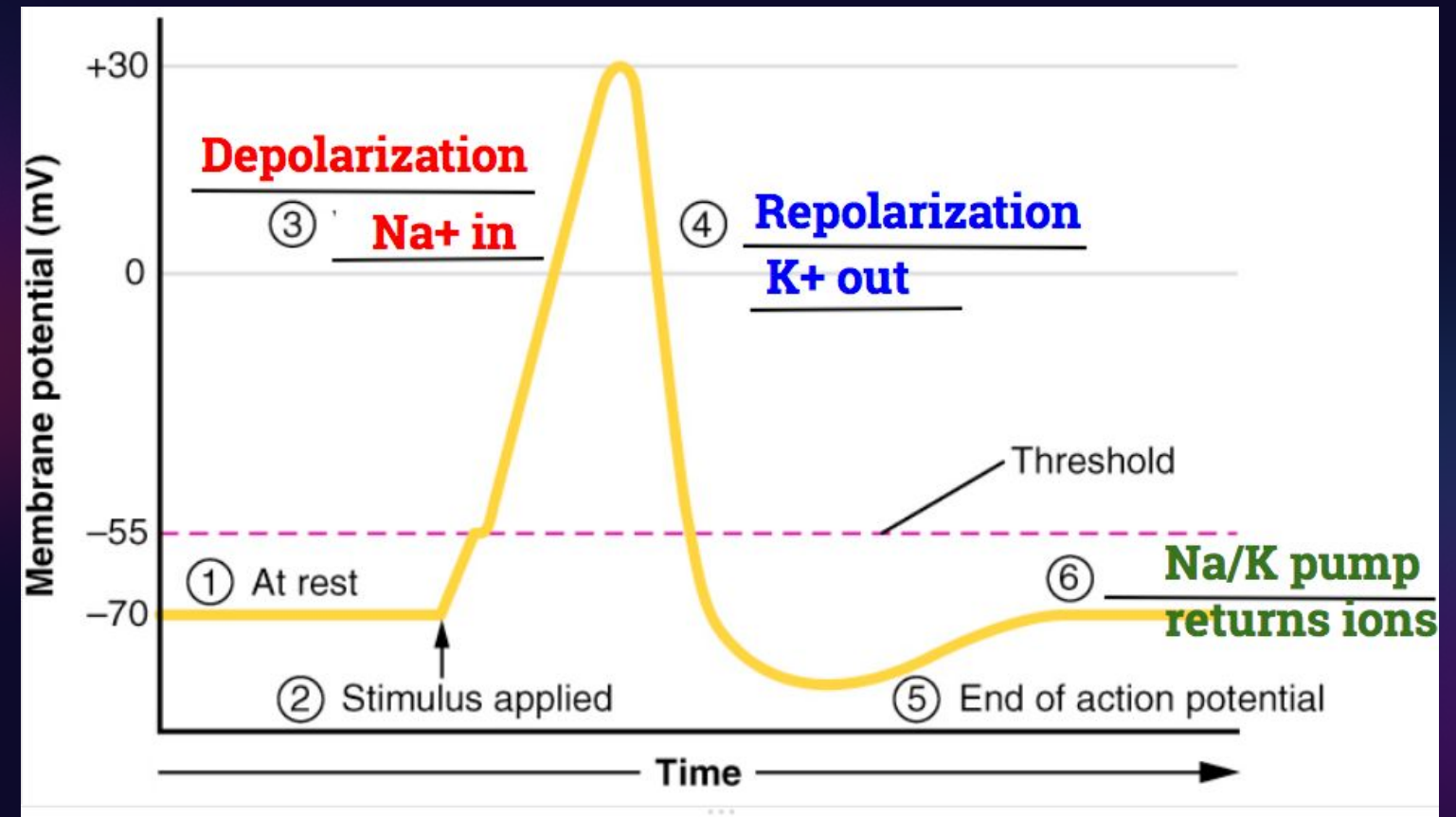
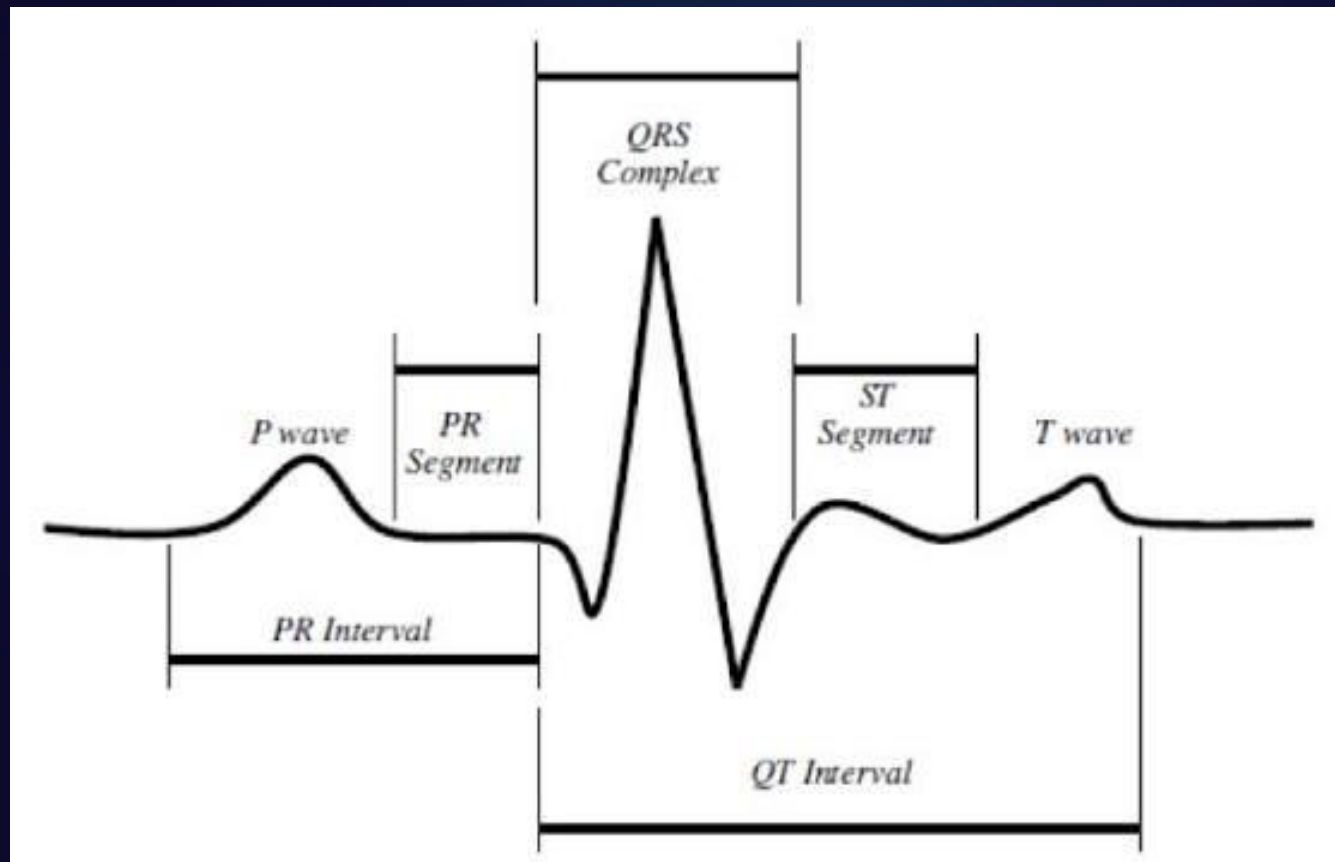


Higher amplitude = larger signal

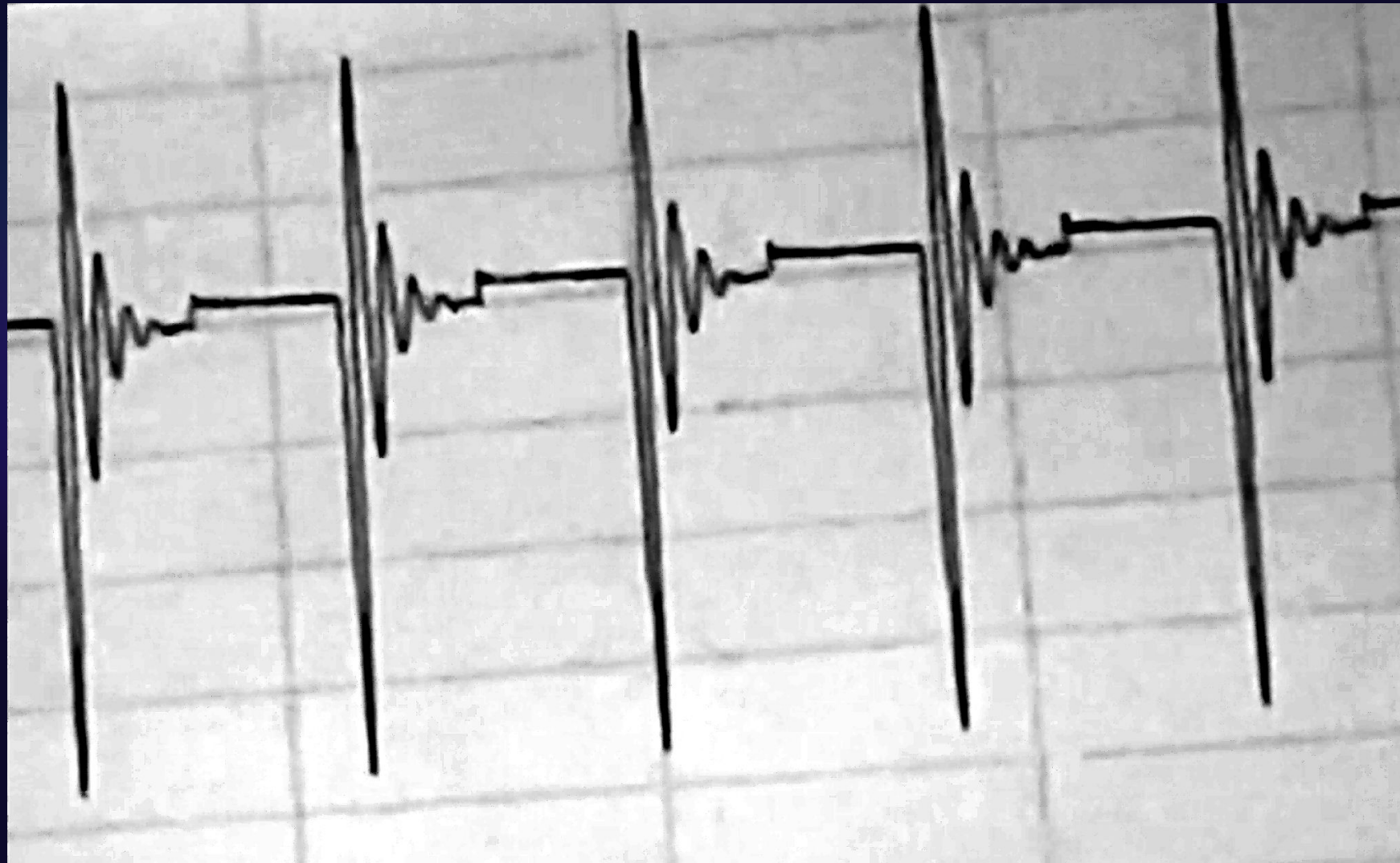


Lower amplitude = smaller signal

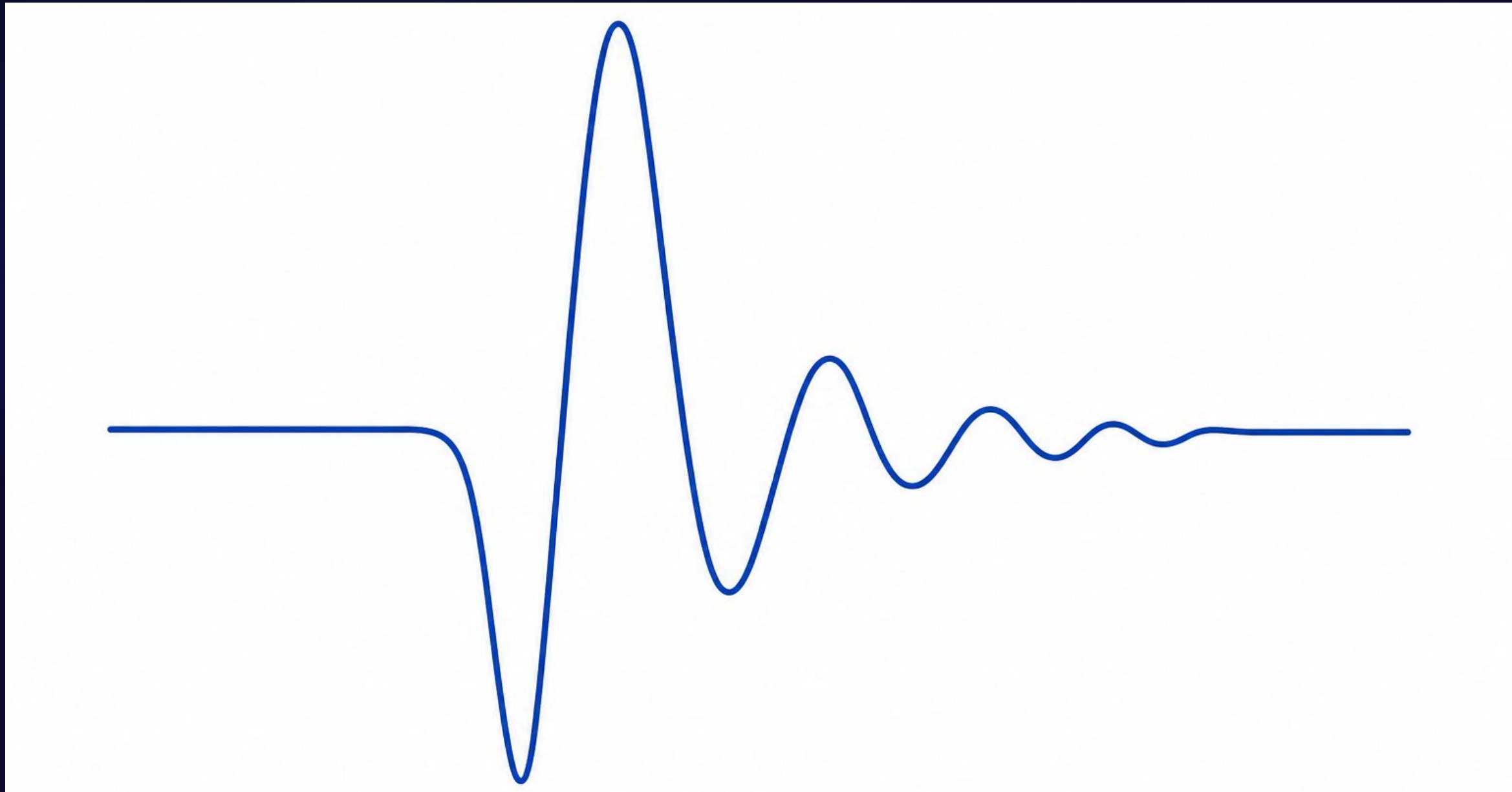
What does it look like in the body



Biomodulator Waveform

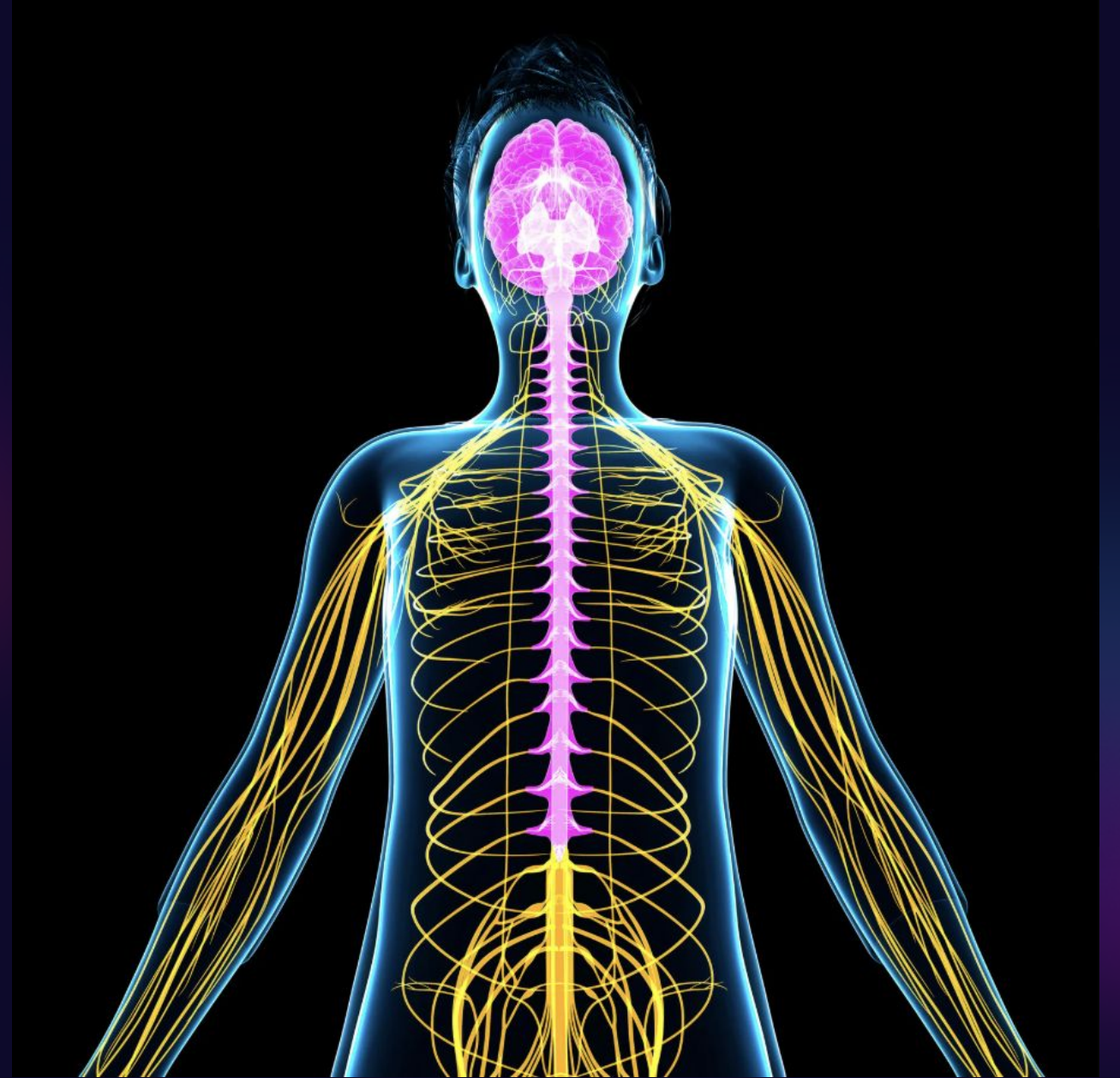


Biomodulator on Skin Example



The Nervous System: The Master Regulator

Operating in milliseconds, the nervous system is the body's master controller. It's not just for sensation; it's the network that coordinates everything from immune responses to stress levels.



Tracey, 2002 (Inflammatory reflex, Nature)

C-Fibers: The Regulation Interface

Often mislabeled as simple 'pain fibers,' C-fibers are much more. They are sophisticated translators between the nervous system and the immune system, constantly influencing regulation.

- Slow-conducting, unmyelinated sensory fibers
- Respond to both chemical and electrical stimuli
- Release key neuropeptides like Substance P & CGRP
- Directly influence vascular tone and immune signaling

Basbaum et al., 2009 - Julius & Basbaum, 2001 - Holzer, 1988



Broadcasting vs. Responsive Interaction

There are two fundamentally different ways to approach bio-optimization. Most tools 'broadcast' a fixed input, while responsive systems 'interact' by listening and adapting to the body's real-time needs.

Most Biohacking Tools (Broadcasting)

- Use preset outputs (e.g., light, fields, supplements)
- Broadcast a signal AT the system
- Offer minimal real-time adaptation

Responsive Bioelectric Systems

- Are contact-based
- Measure tissue impedance to 'listen' to the body
- Adjust their output dynamically based on feedback

Sluka & Walsh, 2003 (for TENS comparison) - Birmingham et al., 2014 (Bioelectronic medicine roadmap)

Different Tools, Different Layers

Electrical stimulation is not new, but different tools operate at different scales and with different intentions, targeting unique layers of the biological system.

TENS (Transcutaneous Electrical Nerve Stimulation)

Often uses milliamps and is primarily associated with pain gating mechanisms.

Vagus Nerve Stimulation

Targets a specific cranial nerve to influence the body's autonomic tone.

PEMF (Pulsed Electromagnetic Field)

A field-based, non-contact stimulation that broadcasts energy into the body.

Adaptive Response Microcurrent Systems

Uses a low microamp range for peripheral nerve engagement with impedance-aware interaction.

The Missing Layer

Don't just talk AT your system. Have a conversation with it.

Fill the gap-

Between other sessions whether it's Cryo, PEMF, Redlight etc. optimize the body even further by addressing the software. Drug free, handheld pain and recovery in the palm of your hand that complements everything you already do.

One Device, endless ways to use it-

Muscle pain, neuropathy, sports recovery, post-surgical care, systemic optimization; "pocket ambulance."

Solid Investment for lasting use-

USA Made, FDA Cleared, Brilliant engineering, solid build and runs for decades.

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Therapeutic Benefits of 660 nm Red Light

Cellular Mechanism

- Absorbed by cytochrome-c-oxidase → ↑ ATP, ↑ repair, ↑ microcirculation
- Stimulates fibroblasts + collagen remodeling

Skin Rejuvenation

- Improves collagen density, wrinkles, texture, elasticity
- **Studies:** Barolet 2009; Lee 2022

Wound Healing & Tissue Repair

- ↑ Angiogenesis, ↑ fibroblast activity, faster tissue regeneration
- **Studies:** Amaroli 2018; Hopkins 2016

Anti-Inflammatory & Pain Reduction

- ↓ IL-1 β , TNF- α , COX-2; supports joint + soft-tissue pain relief
- **Studies:** Rojas & Gonzalez-Lima 2019; Silva 2015

Hair Growth Support

- Stimulates dermal papilla cells + prolongs anagen phase
- **Studies:** Lanzafame 2014; Jimenez 2016



Therapeutic Benefits of 465 nm Blue Light

Antimicrobial Effects

- Generates ROS via porphyrin excitation → kills acne-related & resistant bacteria
- **Evidence:** 465 nm produces dose-dependent MRSA/MSSA kill
(PubMed: "In vitro bactericidal activity of 465 nm blue light," 2017)

Dermatology (Acne + Oil Modulation)

- Reduces *C. acnes*, decreases sebum activity, improves inflammatory lesions
- **Evidence:** Blue-light PBM improves acne severity & reduces cytokines
(Journal of Biophotonics, 2022; Dermatology PBM Reviews 2021–2023)

Anti-Inflammatory Cellular Effects

- Down-regulates IL-1, TNF- α , and pro-inflammatory signaling
- **Evidence:** Immune-modulating effects of blue-light PBM
(J. Biophotonics, 2022)

Alertness, Fatigue, Cognitive Support

- Short-wavelength light (~460–470 nm) increases vigilance & reduces daytime fatigue
- **Evidence:** 465 nm reduces fatigue in TBI populations
(MDPI NeuroSci, 2024)

Circadian Regulation

- Stimulates melanopsin pathways → boosts daytime alertness & circadian alignment

• **Evidence:** Short-wavelength light impacts circadian rhythm & cognition
(Photobiology studies, 2010–2024)



Scientific Evidence: PEMF Therapy Benefits

Cellular Regeneration

Enhances ATP production, promoting faster cell repair.
Stimulates stem cell activity, accelerating tissue healing.

1

2

Pain & Inflammation Relief

Modulates nerve conduction and neurotransmitter release.
Lowers inflammatory cytokines and oxidative stress markers.

3

Bone & Joint Health

Accelerates fracture healing and reduces osteoporosis risk.
Enhances collagen synthesis and cartilage repair.

4

Neurological Benefits

Improves brain function and neuroplasticity. Increases cerebral blood flow, aiding in cognitive health.

5

Circulatory & Immune Support

Enhances microcirculation and oxygen delivery. Boosts immune cell activity, reducing infection susceptibility.

Benefits of Scalar Fields

The Crystalwave BioTransducer® enhances the Biomodulator® by working at the quantum cellular level. The benefits of scalar fields include:

- 1 Cellular Regeneration**
Enhances ATP production and bioelectric signaling.
- 2 Anti-Inflammatory**
Reduces cytokine activity and oxidative stress.
- 3 Neurological Support**
Modulates brainwaves for relaxation and clarity.
- 4 Immune Enhancement**
Increases T-cell activity and supports detoxification.
- 5 Improved Circulation**
Enhances blood flow and tissue oxygenation.

These non-invasive scalar fields complement electrical stimulation. Research by Puharich, Pilla, and Rein supports these mechanisms of action, though studies continue to explore their full therapeutic potential.



Real-World Success Stories

Every day, I work with patients and clients facing devastating diagnoses. Their journeys from despair to hope reveal the Biomodulator's true impact.

Terminal Cancer

Patients report reduced pain, improved quality of life, and enhanced response to traditional treatments.

Chronic Neuropathy

Restored sensation and function in cases where conventional medicine offered no solutions.

Autoimmune Disorders

Reduced inflammation markers and fewer flare-ups, allowing medication reductions for many patients.

Treatment-Resistant Pain

Life-changing relief for those previously dependent on opioids or facing surgical interventions.

These aren't just clinical outcomes—they represent restored lives, renewed hope, and reclaimed futures.

Scientific Evidence & Conclusion

1

Scientific Evidence & Studies Supporting the Biomodulator

- Pain Management Trials: Significant pain reductions comparable to TENS and acupuncture
- Neuropathy & Nerve Regeneration: Increased blood flow, sensory improvement in diabetic neuropathy patients
- Wound Healing Research: Faster healing, increased collagen production, and reduced scarring
- Anti-Inflammatory Effects: Lower IL-1, IL-6, TNF- α markers in fibromyalgia and muscle recovery studies
- Safety Profile: Non-invasive, drug-free, and minimal side effects

2

Key Takeaways

- Proven pain relief
- Increases ATP & cellular healing
- Reduces inflammation & improves circulation
- Enhances wound healing & tissue repair
- Safe, non-invasive, and drug-free

3

Conclusion

The Biomodulator is a scientifically supported microcurrent therapy device that modulates pain, promotes healing, reduces inflammation, and enhances overall well-being. Unlike conventional treatments, it engages the body's natural repair mechanisms for long-term recovery.

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"Repolarize, Recharge, Replenish, Reprogram"

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