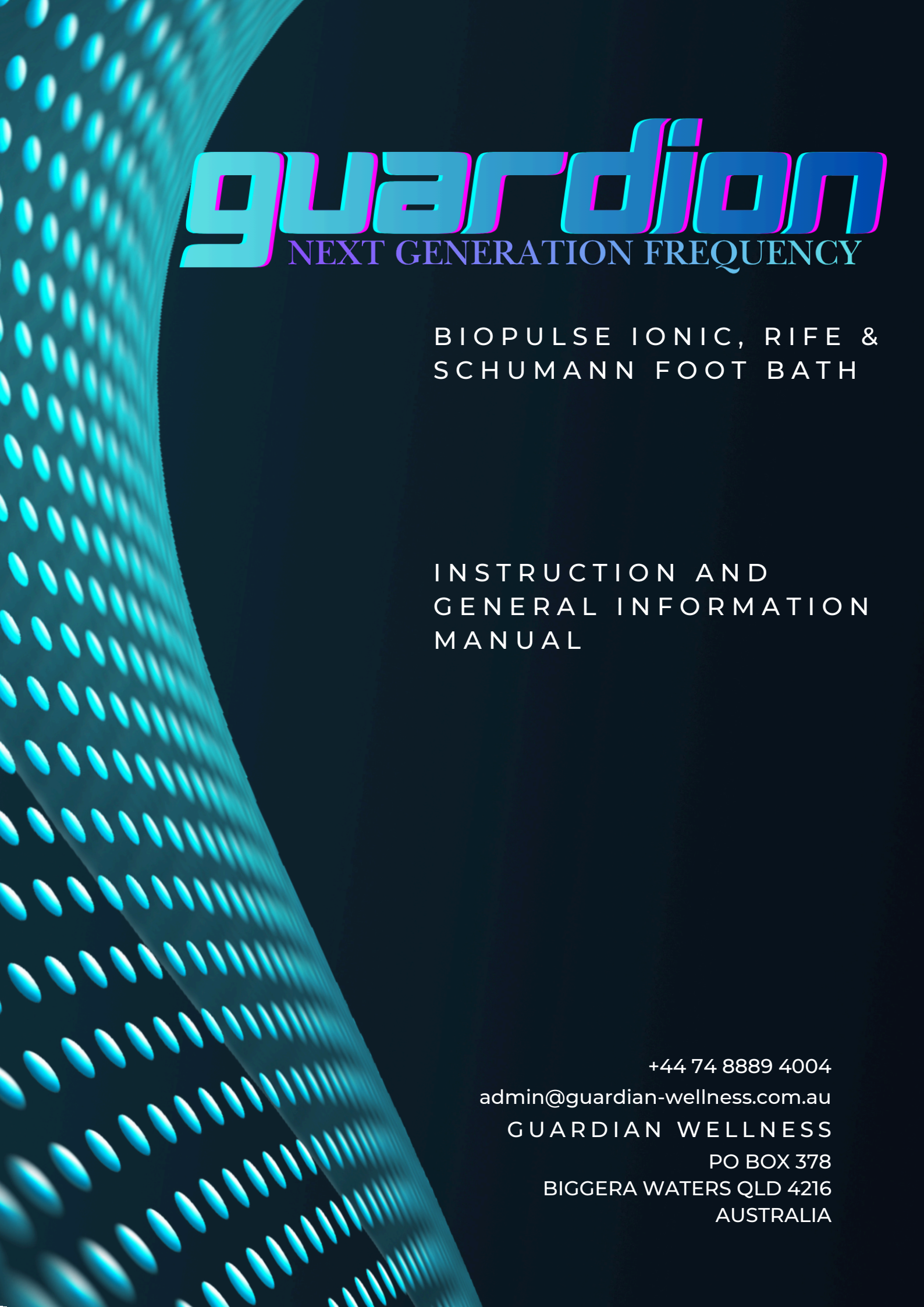




guardian

NEXT GENERATION FREQUENCY

BIOPULSE IONIC, RIFE &
SCHUMANN FOOT BATH

INSTRUCTION AND
GENERAL INFORMATION
MANUAL

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guardion

NEXT GENERATION FREQUENCY

“IF YOU WANT TO FIND THE
SECRETS OF THE UNIVERSE, THINK
IN TERMS OF ENERGY, FREQUENCY
AND VIBRATION.”
— NIKOLA TESLA

*GUARDION IONIC, RIFE & SCHUMANN FOOT BATH USER
INSTRUCTIONS.*

*PLEASE READ THROUGH THE INSTRUCTIONS PRIOR TO USE OF
YOUR GUARDION MACHINE. YOU SHOULD ALSO READ THROUGH
THE GENERAL PRINCIPLES OF IONIC, RIFE AND SCHUMANN
CLEANSING WHICH FOLLOWS THESE INSTRUCTIONS.*

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DISCLAIMER

The Guardian machine is an experimental therapeutic device. It is advisable to consult your Authorized Representative or health practitioner prior to using this equipment. Please be aware that you accept all risk associated with using the Guardian machine. Carefully review all instructions included with this equipment prior to beginning a Guardian session.

This manual is intended for general information and educational purposes only. The information contained herein has not been evaluated by the FDA or TGA and is not meant to cure, prevent disease, nor prescribe or to be used for diagnosis.

We have applied for a waiver to the regulations of Section 513(g) of the Federal Food, Drug and Cosmetic Act, regarding our machine as a “medical device” as we make no medical claims as to its effectiveness.

Section 1

Important Do's and Don'ts

- You should NOT use this equipment if:
- You have a pacemaker or other implanted device
- You are pregnant
- You have a transplanted organ
- You are under 2 years of age

DO drink 6 – 8 glasses of water everyday during your treatment sessions and up to one week after your sessions. Your cleansing sessions break up damaged cells in your body and the water you ingest will flush these cells, other toxins and heavy metals from your body.

ADVISORY

It is recommended you use your Guardion machine only every other day for 20–40 minutes and only for a maximum of 3 months simultaneously. Following the 3 months of sessions, you can take 1-2 weeks without any Guardion sessions, so as to allow your body's cells to rejuvenate. You have just completed a rigorous change in your body's cells which will still be flushing from your body. During the “off” week, be sure to also drink plenty of water, as your body is still detoxing. It is very important you **DO NOT** use the Guardion in a bathing tub or immerse your entire body in water with the Guardion machine operating.

THIS IS IMPORTANT!

Should your water module come into contact with any metal fixture (including the drain), it could cause irreversible damage to your machine. Use of your Guardion machine in this manner will void your warranty.

Secondly, the most sensitive parts of the body which will absorb the frequencies generated by the Guardion machine are the hands and feet. These are the only appendages recommended to be submerged in a water bath while using the Guardion machine.

ATTENTION:

When in operation, your Guardion machine generates a great amount of heat. It is imperative you place your machine ONLY on a stable, solid surface during operation. These solid surfaces may include glass, wood, ceramic tile, granite, marble, laminated wood or wood veneer tabletops or countertops. Absolutely DO NOT place your operating machine cushiony clothlike table, cushions/armrests of chairs or sofas, cushiony footstools/hassocks. DO NOT place on any floors (especially carpeted). Take extreme care to NOT allow water splashes of any kind to drip on your machine display or black pushbutton switches, whether in operation or not. Water splashes may seep down onto the electronics below and render your machine inoperable. Failure to adhere to the above precautions may void your 5 year warranty.

Section 2

Checking equipment upon receipt.

Your Guardian machine and associated accessories will be shipped to you. It should contain the following items:

- **Main Control Unit**
- **Power Cord** ~ One end with a plug for your adaptor the other end with a plug for your AC wall outlet.
- **Adaptor** ~ The black, rectangular shaped, heavy device with one cord to plug into the power socket in the rear of your main control unit. The adaptor converts your AC current to a DC current of 24V so the main control unit will function properly.
- **Water Modules** ~ There will be two. These are the submersible units which are fitted with an RCA plug to plug into either of two RCA sockets at the front of your main control unit.
- **Specifications** ~ Congratulations on purchasing the original Guardian Technologies Ionic/Rife Foot Bath Control. Our machine is provided for NZ, Australia, USA and Europe.

The machine operates from a 110 or 220 volt wall outlet. The power cord can be tailored to any country in the world. An adaptor (supplied) converts 110/220 volts AC to 24 volts DC. Ours is the one of the few machine on the market to output a full 24V. Our machine is also the only one on the market to output true Rife frequencies and a Schumann frequency. Our machine is compact, esthetically pleasing, and very easy to operate. It has 6 settings, leading into 12 settings, with the most desired frequencies for health & wellbeing. It is 27cm W x 22cm D x 8cm (H or 11in W x 9in D x 3in H) and the complete briefcase weight is 3.9kg or 8.5lbs to carry. The complete shipping weight is around 5kg or 11 lbs.

Section 3

INITIAL SET-UP & PREPARATION

- Comfortable chairs should be used and located in your consulting room or work area, close to a water supply.
- The client should NOT be able to become “grounded”. This means being able to touch or otherwise come into contact with heating/cooling radiators, water pipes, radios, computers or any other earth grounded appliance. This is to ensure the client’s body remains commonly charged with respect to the foot bath solution.
- Two clients sitting in close proximity while using the same machine should NOT touch each other. The work area should be well ventilated, but not cold. A quiet environment is advisable and desirable. Fresh air from the sea, woodland or open water is beneficial and deep breaths during a Guardion session will assist the client to relax. A glass of fresh water, during treatment, is advisable. It is recommended clients visit the washroom prior to a session.
- The foot bath container may be a plastic container large enough for the feet of male and female adults. We suggest 35cm L x 30cm W x 13- 20cm D. The plastic container may be reusable or disposable. A plastic liner should be used with reusable containers for longer life of the container and better hygiene. Kitchen waste receptacle liners are best for this purpose. Ideally, a washable mat should be placed beneath the foot bath container to protect the flooring from splashes, as splashes will cause staining.
- Ensure your Main Control Unit is located on a stable platform, away from any danger from being splashed or knocked into the footbath full of water.
- A large jug filled with warm water should be close by so as to facilitate the adjustment of the water in the foot bath while adding sea salt and to clean the clients feet once the session is completed. Ideally, a second foot bath container (with plastic liner) and clean towel should be close by to facilitate the cleaning of the client’s feet and ankle area once the session is completed.

Section 4

MACHINE OPERATION & CHANNEL SELECTION



Plug AC outlet end into wall socket and adaptor end into adaptor.



Back of Guardion Machine with power connection and 2 fuse holders for each side of the machine.



Water Module Connectors x 2 for each side.

Plug in your water module and immerse it in one foot bath only.

Once power is on, and set to Calibrate/Detox, push the START button.

You can also push STOP at any time, otherwise the machine will turn itself off after 30 minutes.

It is optional to use the settings B-E and Schumann after you have got started for 5-10 minutes on Detox/Calibrate.

Section 5

THE FIRST TREATMENT

- Have your plastic foot bath container and liner ready, with towels, water jug, sea salt and extra foot bath container if desired. Always keep the machine on a table, and NOT on the floor. Check your main control unit and plug it in at the wall.
- Put warm water in the foot bath container ankle deep, together with the water module and your client's feet. Plug the water module into channel 1 or channel 2 on the machine.
- Push the START button and this gives 30 minutes session. This will allow you more time to adjust the salt in the foot bath.
- Move selected dial to sequence A on Detox/Calibrate for 10 minutes.
- Start with ¼ teaspoon of sea salt and mix into water. Aim for 2.0-3.0 Amps.
- Your client can help mixing by moving their feet. Check the amp level.
- Start slowly with the salt so it doesn't go too high fast.

OPERATING

- The **Guardion system auto regulates** the amperage to a safe maximum of **3.0 amps**, ensuring optimal performance and safety.
 - *There's no need to worry about exceeding the amp limit – your machine takes care of it automatically.*
- Once calibration is complete, you may now select a **treatment setting** from **B to Schumann** by **turning the setting knob** clockwise or anti clockwise.
- Refer to **Section 9** in this manual for a **complete list of recommended settings** and treatment guidelines for specific health concerns.
- As you turn the knob to select a new setting you will hear between **1 to 6 audible beeps**, depending on the position selected.
 - **A to F positions** will emit a single beep per change.
 - **Sequence 1–6 settings** (within each mode) will emit 1 to 6 beeps to confirm the selected frequency mode.

Section 6

OPERATION MODES

- **Calibration**~ Select the DETOX calibration sequence and then press **START**. A good rule is to add 1/4 teaspoon sea salt per basin. The solution in your foot bath should aim for 2.0 amps to start a session. You do not want the amps to exceed 3.0 amps overall.
- **Timer** ~ The Time button is set to 30 minutes. It is best not to touch the settings of the digital timer.
- **Operation Modes** ~ The following modes are selected by the knob of A-E & Schumann
They are Calibrate, Endocrine, Blood sugar, Positive Transformation, Cancer, Clinic Setting & Schumann.

Each channel has a timer and a 6 Sequence knob for position A-Schumann. The machine should be turned on at the wall.

The session time is pre set to 30 minutes, and by pressing start, this will activate the session.

The settings button is moved to setting 1 on A - Detox/Calibrate for at least the first part of 10 minutes of the session.

Each other setting can be used for 5-10 minutes at a time, by turning the sequence button around from B-Schumann at various times.

We recommend 10 minutes of SETTING A, plus sequence B-Schumann choosing 1- 4 different SETTINGS in each session. See recommended settings and guidelines in Section 8.

Section 7

CARE AND STORAGE OF YOUR Guardion EQUIPMENT

- Once a treatment session has been completed, dispose of used solution and rinse water module under running water. Shake liner dry and dispose of in garbage.
- Unplug your main control unit, wipe free of any splashes and store in a dry place. Air your treatment area so that any chlorine in the air has cleared.
- If the Guardion is kept in the treatment area, a dust cover over the unit is advised.
- Do not store the Guardion machine with wet water modules in briefcase, or where moist air can cause rust.

We heal inside when we are clean inside



Before

After

Color Chart

Color or Particle	Material or Area/System of the Body
Yellow Green	Kidney, bladder, reproductory system
Orange Brown	Joints, muscles
Dark Green	Gall bladder, digestive system, inflammation
Brown	Liver, smoking, free radicals, waste products
Black	Liver, alcohol, respiratory system
Black Flecks	Heavy metals, blood sugar
Red Patches	Blood clots
White Cheese	Acidic wastes (uric, lactic or fatty acid), yeast
Bubbles	Digestive system, immune system, lymphatic toxins
Oil Film	Fats, triglycerides

Section 8

NOT WORKING PROPERLY?

- **If your unit will not turn on.**
- Make sure all connections are secure. Check that the wall plug is plugged in securely, that the adaptor plug is plugged in securely and that the connection to the control unit is secure. Check the wall socket with another appliance that you know to be working. Check that the adaptor is functioning properly. It should have a small green or blue light showing on the top, indicating it is ON.
- The lamp will not light - If your lamp will not light on one side, and the fault light comes on, you have blown the resettable fuse on the output of the machine.
- Turn the power off to the machine and wait 5 minutes for the fuse to cool, then turn the machine back on.
- The alternative if this does not work is to replace the fuse.
- It is a 5x20mm, 5amp slow blow fuse.
- Check your briefcase for one spare fuse.
- Cannot get an Amp Reading. If you cannot get an amp reading and your water module is not working, try a different water module or try the same water module on the other channel. If a different water module solves the problem, your water module is no longer active and you will need a new one. If you have had your water module less than 30 days, return it to your distributor or to the factory for replacement. If you determine your water module works fine by using the other channel, and you do not have an amp reading, check the appropriate fuse in the back of the machine and replace it.
- The time will not show correctly on the timer.
- The timer is set to start at 0.3.0 which is 30 minutes and it counts down.
- Do not push the buttons around the timer as this may reset the timer to a different time.
- If your timer is cutting out early, the buttons may have been pushed to change the time. Contact the distributor for information on resetting the timer.
- Other Problems Not Mentioned Above. If you are having another problem not mentioned above, please contact your distributor and information on the back page.

Section 9

RECOMMENDED SETTINGS FOR SOME COMMON AILMENTS

SETTINGS on model BPNZ200

A: Calibration + Rife = Relaxation & Detox

B: Rife = Endocrine

C: Rife = Blood Sugar

D: Rife = Love, Harmony, Positive Transformation

E: Rife = Cancer, Basal cell

F: Schumann + includes DNA repair and Motivation

A

Acne – Sequence A, C, F

Addison's Disease – Sequence A, B, D

Alzheimer's Disease -Sequence A, B, D

Anemia – Sequence A, D, F

Angina – Sequence A, E, F

Anorexia Nervosa – Sequence A, B, D

Anxiety – Sequence A, D, F

Arthritis – Sequence A, B, F

Asthma – Sequence A, E, F

Athlete's Foot – Sequence A, C, F

Aspergillus, unspecified – Sequence A, B, D

B

Back Pain – Sequence A, E, F

Baldness – Sequence A, B, D

Bell's Palsy – Sequence A, D, F

Bladder Cancer – Sequence A, E, F

Blood Pressure, decrease – Sequence A, B, F

Boils – Sequence A, E, F

Bowel Cancer – Sequence A, E, F

Breast Cancer – Sequence A, E, F

Sequence D

Bronchitis – Sequence A, E, D

Bulimia Nervosa – Sequence A, B, D

C

Cancer - Sequence A, C, E, F
Candida Albicans - Sequence A, C, D
Carpal Tunnel Syndrome - Sequence A, E, F
Cataracts - Sequence A, C, F
Chronic Fatigue - Sequence A, B, F
Cirrhosis - Sequence A, E, F
Cold Sores - Sequence A, C, F
Colds – (head and chest) Sequence A, E, F
Colitis - Sequence A, E, F
Conjunctivitis - Sequence A, E, F
Constipation - Sequence A, D, F
Crohn's Disease - Sequence A, D, F
Cystitis – Sequence A, E, F

D

Dandruff - Sequence A, B, F
Depression Sequence A, B, F
Diabetes - Sequence A, C, D
Diverticulitis – Sequence A, E, F
Dysmenorrhea - Sequence A, B, D
DNA Repair - Sequence A, D, F

E

Eczema - Sequence A, C, F
Endometriosis - Sequence A, B, E, F
Epilepsy – Sequence A, B, C, F
Eyesight – Sequence A, B, E, F

F

Fibroids - Sequence A, C, F
Flu-Influenza - Sequence A, E, F
Full Body Cellular Level Detox - Sequence A, B, D, F

G

Gallstones – Sequence A, B, D, F
Glaucoma – Sequence A, C, E, F
Gout – Sequence A, B, C, F
Gall Bladder Pain - Sequence A, E, F

H

Hemorrhoids - Sequence A, D, E, F
Hay Fever - Sequence A, C, F
Headaches - Sequence A, C, D, F
Heal & Regenerate Tissue - Sequence A, D, F
Heart Disease - Sequence A, B, D, F
Heart Rate, decrease - Sequence A, D, F
Hepatitis - Sequence A, C, D, F
High Blood Pressure - Sequence A, C, E, F
Hypoglycemia - Sequence A, C, D, F
Hypothyroidism - Sequence A, B, C, F

I

Incontinence - Sequence A, B, D, F
Indigestion - Sequence A, D, F
Infertility - Sequence A, B, D, F
Influenza - Sequence A, E, F
Insomnia - Sequence A, B, D, F
Irritable Bowel Syndrome - Sequence A, D, E, F

K

Kidney Stones - Sequence A, C, E, F
Kidney, Other Problems - Sequence A, C, F

L

Lichen Planus - Sequence A, C, D, F
Liver, support & balance - Sequence A, B, D, F
Lyme Disease - Sequence A, B, D, E, F
Lyme, eggs, hatchlings - Sequence A, D, E, F
Lyme, secondary - Sequence A, D, E, F

M

Menopause - Best would be Sequence A, B, D, F
Migraines - Sequence A, B, E, F
Motor Neuron Disease - Sequence A, B, E, F
Multiple Sclerosis - Sequence A, B, E, F
Muscle Aches - Sequence A, C, D, F

N

Nonspecific Urethritis – Sequence A, C, E, F

O

Obesity – Sequence A, B, D, F

Osteoarthritis - Sequence A, B, F

Osteoporosis - Sequence A, B, F

P

Parkinson's Disease – Sequence A, B, E, F

Pelvic Inflammatory Disease - Sequence A, B, E, F

Peptic Ulcers - Sequence A, C, D, F

Perimenopause – best is Sequence A, B, E, F

Premenstrual Syndrome – Sequence A, B, E, F

Prostate Problems – Sequence A, C, E, F

Psoriasis - Sequence A, D, E, F

S

Sciatica - Sequence A, F

Seasonal Affective Disorder - Sequence A, D, F

Sinusitis – Sequence A, B, E, F

Slipped Disc - Sequence A, B, E, F

Sports Injuries - Sequence A, D, F

Stress - Sequence A, B, D, F

T

Tinnitus – Sequence A, C, E, F

Thrush - Sequence A, C, D, F

U

Ulcerative Colitis - Sequence A, C, E, F

Ulcers, gastric – Sequence A, D, E, F

V

Varicose Veins - Sequence A, D, E, F

W

Whooping Cough – Sequence A, D, F

Wound Healing - Sequence A, B, D

N

Nonspecific Urethritis – Sequence A, C, E, F

O

Obesity – Sequence A, B, D, F

Osteoarthritis - Sequence A, B, F

Osteoporosis - Sequence A, B, F

P

Parkinson's Disease – Sequence A, B, E, F

Pelvic Inflammatory Disease - Sequence A, B, E, F

Peptic Ulcers - Sequence A, C, D, F

Perimenopause – best is Sequence A, B, E, F

Premenstrual Syndrome – Sequence A, B, E, F

Prostate Problems – Sequence A, C, E, F

Psoriasis - Sequence A, D, E, F

S

Sciatica - Sequence A, F

Seasonal Affective Disorder - Sequence A, D, F

Sinusitis – Sequence A, B, E, F

Slipped Disc - Sequence A, B, E, F

Sports Injuries - Sequence A, D, F

Stress - Sequence A, B, D, F

T

Tinnitus – Sequence A, C, E, F

Thrush - Sequence A, C, D, F

U

Ulcerative Colitis - Sequence A, C, E, F

Ulcers, gastric – Sequence A, D, E, F

V

Varicose Veins - Sequence A, D, E, F

W

Whooping Cough – Sequence A, D, F

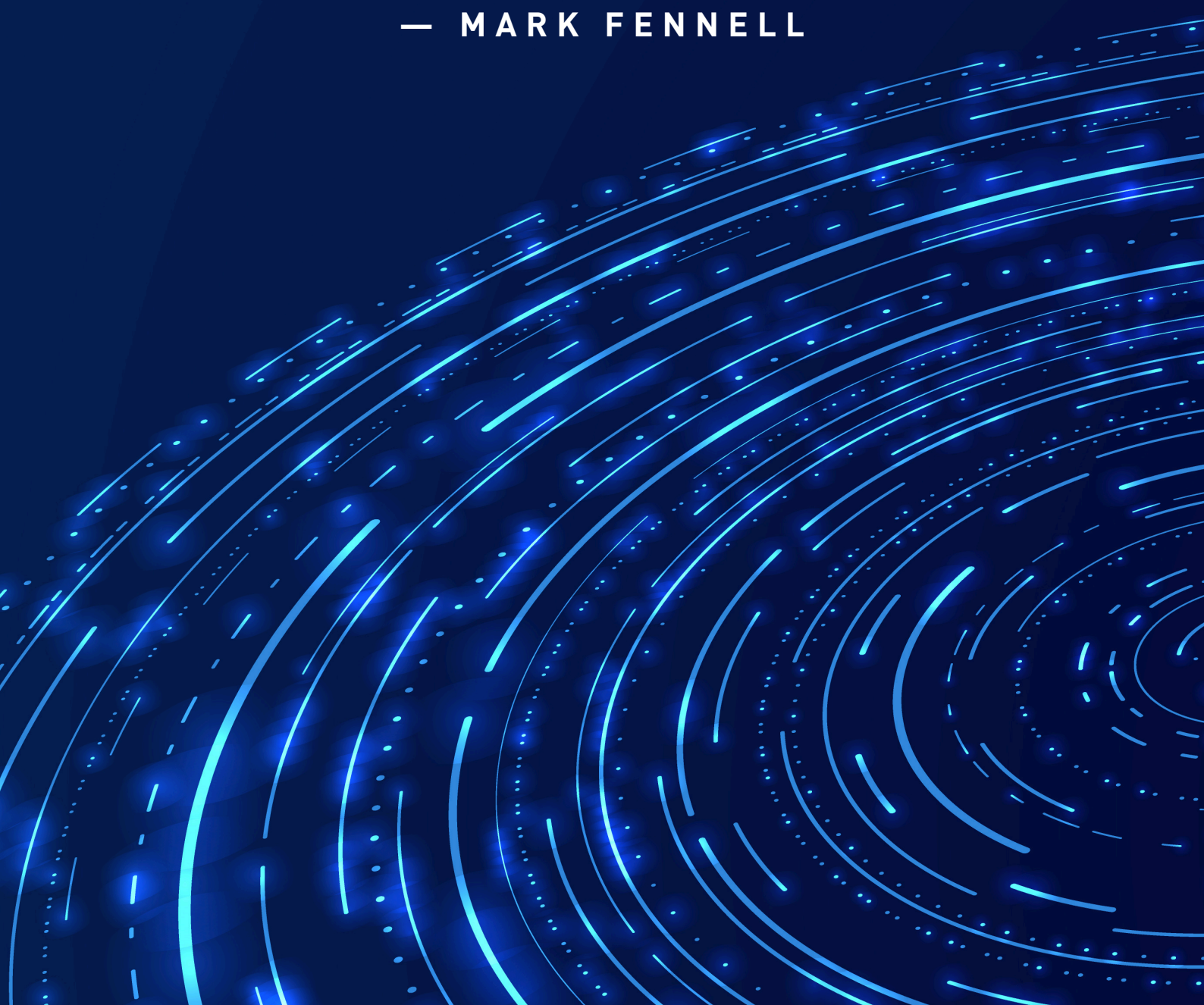
Wound Healing - Sequence A, B, D



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“THE THEORY OF EVERYTHING BEGINS WITH THE UNIVERSAL ENERGY. THIS UNIVERSAL ENERGY IS DIVIDED INTO DIFFERENT AMOUNTS, RESHAPED TO BECOME EACH ENERGY TYPE. THESE ENERGY TYPES THEN GATHER TO BECOME THE STRINGS, PARTICLES, AND MOTIONS, FOR ALL OBJECTS IN THE UNIVERSE.”

— MARK FENNELL



Section 10

THE IONIC/RIFE BIOPULSE DETOX TECHNOLOGY

How a Detox Cleanse Works

Over the years the ionic footbath detox systems (frequency generating devices) available have been accredited with the ability to assist with bodily detoxification and rejuvenation. Thousands of professional and personal reports attest to these beneficial processes, along with many testimonies of physical, emotional and psychological benefits enhanced by the use of these ionic footbaths.

Not only does the Ionic/Rife Detox Cleanse Technology generate a specific ionic frequency, it also generates the all important Schumann frequency and in excess of 150 different frequencies shown by scientific research to be beneficial to proper functioning of all the cells in our body.

A brief explanation of the electrolysis of water is the first step. When our water module (also referred to as the array) is placed in water and electrical power is applied, one will observe the water will begin to fizz around the stainless steel plates. Relatively pure water is a very good insulator and conducts current poorly. When a water soluble electrolyte is added to the water, the conductivity of water rises considerably. In our process we utilize table salt or seasalt as this electrolyte.

One plate of our array becomes the negatively charged cathode and the other plate of our array becomes the positively charged anode when electrical power is applied. In pure water, a reduction reaction takes place at the cathode with electrons being given to hydrogen cations to form hydrogen gas. An oxidation reaction takes place at the anode, generating oxygen gas and giving electrons to the anode, thereby completing the circuit. The produced hydrogen gas has twice the volume of the produced oxygen gas. The number of electrons (e-) pushed through the water is twice the number of generated hydrogen molecules and four times the number of generated oxygen molecules. Of importance here is the number of negatively charged electrons flowing through the water. This will hereafter be referred to as the ionic charge and will be further discussed later in this document.

When the electrolyte table salt (NaCl) is added to the water, the chloride ion competes with oxygen at the anode and chlorine gas is produced rather than oxygen gas. Hydrogen gas is still being generated at the cathode. Another by-product of this reaction is sodium hydroxide which reacts with the stainless steel plates of the array and causes the water to change color.

To fully understand how the Detox Cleanse Technology assists the body to detoxify itself, we first need to understand a little about how the body functions and in particular how our cells function.

The Cells of our Body

The cell is the basic unit of life. While there are many cells in our body which perform different functions and have differing internal structures, they all have three basic components, the nucleus, the internal structures and the cell (plasma) membrane. Water (H₂O) is vital for the proper functioning of all the cells of our body. The central feature of the water molecule is a polar covalent bond, with a weak positive charge on each hydrogen and a weak negative charge on the oxygen. This allows the water molecule to dissolve ions, such as sodium and potassium, essential for membrane transport. It also allows it to dissolve other polar molecules, such as sugars, while excluding large nonpolar molecules, such as fats. This selective solvation forms the basis of cell structure and function, in which the large insoluble cell membrane encloses an aqueous solution (cytoplasm) of nutrients and other cell structures.

The Nucleus and Functions

The nucleus is a highly specialized organelle that serves as the information processing and administrative center of the cell. This organelle has two major functions: it stores the cell's hereditary material (DNA), and it coordinates the cell's activities, which include growth, intermediary metabolism, protein synthesis, and reproduction (cell division).

Internal Structures and Functions

There are more than a dozen different organelles which comprise all the internal structures of each living cell and each organelle provides an important function vital to the cell's survival.

Of all the internal structures of a cell, the mitochondria are of particular interest. Mitochondria are the energy factories of the cells. Fat cells have many mitochondria because they store a great deal of energy. Muscle cells also have many mitochondria, which allow them to respond quickly to the need for doing work. The energy currency for the work that a cell must do is the energy rich molecule adenosine triphosphate (ATP), generated through aerobic respiration. Electrons harvested from the oxidation of carbon food sources are utilized to pump protons across the inner membrane and store the energy in a proton gradient, which is then used to produce ATP. Aside from the critical role of ATP production, mitochondria are also important in multiple biological processes including cell differentiation, cell cycle control, cell survival, neuronal protection, and aging. Mitochondrial dysfunction has been shown to contribute to a remarkably wide range of human diseases including cancer, Alzheimer's disease, Parkinson's disease, diabetes, ischemia perfusion injury, steatohepatitis, sepsis, Huntington's disease, and many, many others.

Other organelles, such as the endoplasmic reticulum, manufacture, process and transport chemical compounds for use inside and outside of the cell. It is connected to the double-layered envelope of the nucleus, providing a pipeline between the nucleus and the surrounding aqueous solution (cytoplasm).

The Golgi apparatus (Golgi bodies) is the distribution and shipping department for the cell's chemical products. It modifies proteins and fats built in the endoplasmic reticulum and prepare them for export to the outside of the cell.

Cell Membrane and Functions

The cell membrane is a lipid bilayer with embedded proteins that separates the interior (intracellular) of all cells from its outside (extracellular) environment. The cell membrane is selectively

permeable to ions and organic molecules and controls the movement of substances in and out of the cells. The cell membrane serves as the attachment surface for the intracellular cytoskeleton to provide shape to the cell, and in attaching to the extracellular matrix and other cells to help group cells together to form tissues. The cell membrane also provides a cell specific identity marker which prevents our white blood cells from destroying our own healthy cells.

Since the cell membrane is selectively permeable, it is able to regulate what enters and exits the cell, thus facilitating the transport of materials needed for survival. The movement of substances across the membrane can be either “passive”, occurring without the input of cellular energy, or “active”, requiring the cell to expend energy in transporting the substance. The cell employs a number of transport mechanisms to accomplish this feat. The cell membrane also maintains the cell potential.

Some substances (small molecules, ions) such as carbon dioxide and oxygen can move across the cell membrane by diffusion, which is a passive transport process. Osmosis is another form of passive transport. The membrane acts as barrier for certain molecules and ions which can occur in different concentrations on the two sides of the membrane creating an osmotic flow with water to reach equilibrium.

Endocytosis is the process in which cells absorb molecules by engulfing them. The cell membrane creates a small deformation inward in which the substance to be transported is captured. The deformation then pinches off from the membrane on the inside of the cell, creating a vesicle containing the captured substance. This is the pathway for internalizing solid particles (cell eating), small molecules and ions (cell drinking), and macromolecules. Endocytosis requires cellular energy and is a form of active transport.

Exocytosis occurs in various cells to remove undigested residues of substances brought in by endocytosis, to secrete substances such as hormones and enzymes, and to transport a substance completely across the cellular barrier. In this process, the undigested waste-containing secretory vesicle budded from Golgi apparatus, is moved by the cytoskeleton from the interior of the cell to the surface, requiring

cellular energy. The vesicle membrane comes into contact with the cell membrane. The two bilayers of the cell membrane rearrange themselves and the two membranes are fused. A passage is formed in the fused membrane and the vesicle discharges its contents outside the cell.

Active transport is a good example of a process for which cells require energy to move all types of molecules across a cell membrane against a concentration gradient (from low to high concentration). If the process uses chemical energy, as from ATP, it is termed primary active transport. Secondary active transport involves the use of an electrochemical gradient. Specialized trans-membrane proteins recognize a substance and allow it access (or, in the case of secondary transport, expend energy on forcing it) to cross the membrane when it otherwise would not, due to the selectively permeable nature of the membrane.

Cell Membrane Potential

The membrane potential (or membrane voltage) is the difference in electrical potential between the interior and exterior of the cell. A typical value for a typical cell is -70 millivolts (mV). Virtually all eukaryotic cells (including cells from animals, plants and fungi) maintain a nonzero transmembrane potential, with a negative voltage in the cell interior as compared to the cell exterior. The membrane potential has two basic functions. First, it allows a cell to function as a battery, providing power to operate a variety of “molecular devices” (i.e. ion pumps, ion channels) embedded in the membrane. Second, in electrically excitable cells such as neurons and muscle cells, it is used for transmitting signals between different parts of the cell. Signals are generated by opening or closing of ion channels at one point in the membrane, producing a local change in the membrane potential. This change in the electric field can quickly be detected by either adjacent or more distant ion channels in the membrane. The opening and closing of ion channels can induce a departure from the membrane resting potential. In excitable cells, when the interior voltage of the cell becomes more positive this is called depolarization. A sufficiently large depolarization can evoke an action potential. Action potentials are generated by the activation of certain voltage-gated ion channels.

These voltage sensitive ion channels open and close in response to the voltage across the membrane. Undoubtably, the most important member of this group is the voltage-gated sodium channel which plays a critical role in maintaining the proper membrane potential. The normal energy production process utilizing electron transport and hydrogen ion gradients across the mitochondrial membrane is disrupted when cells become cancerous.

A great deal of research has proven that when the membrane potential drops to a low level, it contributes significantly to the loss of cell integrity. We will briefly explore some of the reasons how the membrane potential and cell integrity can be affected by a variety of environmental factors.

An Over Abundance of Toxins

The environment we live in has changed forever. In modern years there has been an exponential explosion of toxins in the environment. As recently as the early 20th century, there were almost zero environmental toxins, but now there are toxins almost everywhere you go.

Our air is seeded with heavy metals from the burning of fossil fuels to propel our combustion engine vehicles and to keep aircraft aloft. We fill our lives with toxic-laden artificial plastics. We rely on herbicides and pesticides to increase the yield of our crops and hormones and antibiotics to increase the growth of our animals.

To make matters worse, we've been over exposing ourselves to a relatively new toxin for the past 20 years, as well: electromagnetic force, or EMF, toxins. These are emitted by cellular technology, cordless phones, computers and transmission lines. We rarely have the opportunity to properly ground ourselves, so these EMF toxins build up in our systems and affect our health. High exposure to environmental toxins can lead to chronic disease, by interfering with the metabolic pathways in the cells of our body. These toxins can affect our endocrine system, alter the way our body produces the hormones and proteins it needs to function properly, and hinder our ability to fight off disease.

Toxin Build-Up

When our ability to detoxify is compromised, due to excessive toxin exposure, oxidative stress, genetic predisposition, hormonal imbalance, nutritional health, presence of infection or any other reason, toxins begin to build up in our system. These toxins lead to further oxidative stress, causing us to be even more susceptible to further toxin exposure.

Detoxification

Our body has many pathways in place to remove toxins from our system and prevent us from becoming ill. However, in order to effectively detoxify the body, all of these pathways must be functioning properly. Healthy liver, kidneys and bowel function are absolutely vital for detoxification.

To remove toxins, our body must convert them from fat-soluble to water-soluble molecules. This occurs in a two-phase process in your liver. Once the toxins have been converted, they are released into a water-soluble environment, such as our bowels, and passed out of the body. This process relies heavily upon nutritional support. One must have the proper amounts and types of antioxidants, vitamins and minerals to act as cofactors and coenzymes. When these essential nutrients are missing, our system undergoes oxidative stress and detoxification is impaired.



LIMITED WARRANTY

Professional Model

Ionic/Rife Foot Bath Control Module

Model: BPN100 / BPN200

WHAT THIS WARRANTY COVERS: This warranty covers all defects in workmanship or materials in your BPNZ100 & BPNZ200 Ionic/Rife Foot Bath Controller Machine for a period of five years from date of purchase, with the exception of the water modules and power supply.

The power supply is warranted for a period of two years by the manufacturer against defects in materials and workmanship.

The water modules are warranted for a 30-day exchange policy. During the first 30-days after date of purchase you may exchange any water module that fails to function properly.

To receive a replacement, contact the distribution team at admin@guardian-wellness.com.au.

We will replace any defective water module at no charge to you.

HOW TO GET SERVICE: Notify the company via e-mail at admin@guardian-wellness.com.au of any problems you are experiencing with your BPNZ100/BPNZ200 PERSONAL OR PROFESSIONAL MACHINE.

Explain in as much detail as possible the symptoms. We will respond within 24-48 hours with advice. Should the problem be severe, we would simply ask you to return the defective Ionic/Rife Foot Bath Controller Machine. Your control module will be repaired or replaced, at our option, and returned, properly packaged and postage prepaid, within 14 days. Your prepaid postage will be refunded to you or a courier ticket will be emailed to you for pick up.

WHAT'S NOT COVERED:

This warranty applies only to the original purchaser for whom the warranty card was issued and may not be transferred. The original purchaser is deemed to be that person who returns the warranty card with completed information within 30 days of purchase.

This warranty only covers defects arising under normal usage and does not cover any malfunction, failure or defects resulting from misuse, abuse, neglect, alteration, modification, acts of God (such as power surge, flood or lightening strike) or repairs by other than Guardian Wellness Private Limited.

Guardian Wellness Pty Ltd makes no warranties, representations, or promises as to the quality of performance of its Ionic/Rife Foot Bath Control Module other than those specifically stated in this warranty.

ADDITIONAL LIMITATIONS: Any implied warranties granted under any jurisdiction, including warranties of merchantability or fitness for a particular purpose, are limited to five years from date of purchase. The BPNZ100/BPNZ200 is an experimental therapeutic device and has not been evaluated by the TGA/FDA and is not meant to cure, treat, prevent disease, nor to prescribe or to be used for diagnosis of disease.

Please be aware that you accept all risk associated with using the BPNZ machines.

Guardian Wellness Pty Ltd is not responsible for any direct, indirect, or incidental damages arising from use of its product.

guardian

NEXT GENERATION FREQUENCY



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AUSTRALIA

Guardion Ionic/Rife Detox Foot Spa USA made for NZ,
Australia, USA & UK.