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Research Article

# Investigation into the Physiological Effects of Nanometer Light Energized Water Study 3: Meridian and Acupuncture Data

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## Abstract

**Methods:** LifeWave X2O, beakers, beaker stands, and bottled water. The Bio-Well™ and BioPulsar provided the Bioelectric-magnetic measures. Citrulline and Sulforaphane were given to the supplement group, while a placebo was given to the water only group.

Measures were taken before and after drinking the water within the same 24-hour period. A single blind study with two groups which were a randomized sample of 10 subjects each were made up of both men and women aged 40-90 with the goal of 10 subjects in each group completing the study. Since this study focused on the impact of energized water with and without supplements, 10 subjects were given a placebo at the beginning of testing and drank energized water alone in group 1 and 10 subjects were given Sulforaphane at the beginning of testing and drank the energized water with Citrulline.

Subjects were consented and demographic measures were taken. Immediately after this they were asked to take either a sulforaphane tablet or a placebo. Once this was done measures were taken. Participants were then wired to the Physio suite HRV and a measure was taken. Once that was done they were asked to drink the water, either with or without the citrulline mixed in - concurrent Near Infrared images taken before, while drinking, and after. Following this all of the tests were repeated in opposite order.

**Results:** Most of the important changes were between the two groups. All of the test measures, except the Doppler Laser Perfusion Imager, had at least one change in significance.

**Conclusion:** This study reinforces the previous two studies findings of broad wellness effects with a documented trend toward improved body function. A longer test period is a logical next step to see how these effects either stabilize or change over time.

**Keywords:** BioPulsar; Bio-Well™; BioGraph Infinity Thought Technology Physiological Test Suite; Doppler Perfusion Imager; HRV; Interstitial Resistance; Water

## Introduction

This was a discovery study to investigate the physiological effects on individuals consuming water energized by light when combined with Sulforaphane and Citrulline. The LifeWave X2O, which infuses water using focused light of specific wavelengths, was used, in combination with Sulforaphane [1] and Citrulline [2].

## Background

Recent research has demonstrated the validity of research on water structure and function. Some of that research specifically supports changes in water structure based on photobiomodulation variations of light [3]. Water is vital to human life, it is critical to life functions [4], water holds cell walls together [5], water holds DNA together [5], the body is made of water [4]. This study was the third in a series, so it focused on the combined effects of the energized water with Sulforaphane and Citrulline. Sulforaphane is commonly found in cruciferous vegetables and may have health benefits, including anticancer effects [6]. Citrulline levels have been shown to corelate to how effectively the intestine is absorbing nutrients [7].

## Materials

LifeWave X2O, beakers, beaker stands, and bottled water. Thought Technology Infinity Physiology Suite including HRV, EEG, EMG, TEMP, Galvanic Skin Response and Blood Volume Pulse. Vitals included Temp, pulse, respiration, blood pressure and O2saturation. CO2 measures and blood glucose were also taken. Interstitial testing included weight, kCal, BMI, % muscle, % fat, visceral fat and body age. The Bio-Well™ and BioPulsar provided the Bioelectric-magnetic measures. Yugi wetwipes were also used. Doppler Perfusion Imaging was also done. Near infrared images were taken before, during and after drinking the water concurrent with the physiology suite data. Citrulline and Sulforaphane were given to the supplement group, while a placebo was given to the water only group.

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- **L-Citrulline**

Beyond Raw Chemistry Labs L-Citrulline Lab grade, 3 grams per serving.

- **Sulforaphane**

Carlyle Sulforaphane from broccoli seed extract contains 400 mcg free of gluten, wheat, yeast, milk, lactose, soy artificial flavor, sweetener, and nonGMO.

- **Thought Technology BioGraph Infiniti Physiology Suite**

Complete Thought Technology IS7910 Biograph Infinity Physiology Suite testing including EKG, temp, galvanic skin response, blood volume pulse, respiration and EMG measures were taken. CardioPro SA7597 Infinity HRV analysis software was used to analyze measures.

Three 3 minute measures were taken: prior, during and post drinking the energized water. Analysis was done with CardioPro software and measures panel was loaded into spread sheets for additional statistical analysis.

- **Bio-Well**

Bio-Well 3.0, with 3.0 Bio-Well software.

- **BioPulsar**

BioPulsar-Reflexograph by Auramed version 4 meets medical device act test specifications CE 0483 and EMC test specifications directive 89/336/EEC with brass 24 carat gold plated sensors. With version 4.9 BioPulsar software.

- **Doppler Perfusion Imaging**

Perimed AB PIM II Laser Doppler Perfusion Imager with LISCA Opto-I Isolation Unit.

- **Near Infrared Photos**

FLIR One Pro LT iOS Pro-Grade thermal camera for smart phones. High resolution IR images with 1440 by 1080 visual resolution and 80 by 60 thermal resolution accuracy is +/-3C or +/-5% when unit is within 15C to 35C. And scene is within 5C to 120C.

- **Omron Body Composition and Weight Scale (2021)**

Made by Omron Healthcare in 2021, the HBF-514C Body Composition and Weight Scale has seven measures available: Body fat %, Body Mass Index, Skeletal Muscle, Resting Metabolism, Visceral fat, Body age, weight. Measures for this study include original weight, body fat and body age.

- **Vitals**

The following vitals measures were taken including Pulse Oximeter, Blood Pressure (Sphygmomanometer Manual Arm Blood Pressure Monitor BP Cuff Gauge tester Machine), temperature and respiration.

- **CO2 measures**

Contec CO2 Capnograph mainstream respiration rate End-Tidal and Portable air quality monitor 400-5000 PPM mini CO2 detector.

- **Blood Glucose**

TRUMATRIX meter starter kit with TRUMATRIX test strips.

### Methods

Ethics approval was NAOEP/IJHC 03-30-24-2. Measures were taken before and after drinking the water within the same 24-hour period. Two groups which were a randomized sample of 10 subjects each were made up of both men and women aged 40-90 with the goal of 10 subjects in each group completing the study. Once all 20 subjects had completed the study recruiting and consenting was stopped. Since this study focused on the impact of energized water, 10 subjects were given a placebo at the beginning of testing and drank energized water alone in group 1 and 10 subjects were given Sulforaphane at the beginning of testing and drank the energized water with Citrulline.

Subjects were consented and demographic measures were taken. Immediately after this they were asked to take either a sulforaphane tablet or a placebo. Once this was done Weight with interstitial age, and Base temp, blood pressure, 02 sat, glucose and CO2 were taken. After that Bio-Well™/GDV, then BioPulsar, and Doppler Perfusion Imaging were also done. Participants were then wired to the Physio suite HRV and a measure was taken. Once that was done they were asked to drink the water, either with or without the Citrulline mixed in - concurrent Near Infrared images taken before, while drinking, and after. Following this all of the tests were repeated in opposite order.

### Statistics

Demographic variables were summarized using frequencies and percentages or mean and standard deviation, stratified by study group. Physio suite HRV outcome parameters were summarized in terms of medians, stratified by study group and assessment timepoint (pre vs. post). Changes of physio suite HRV outcome parameters within groups from the pre- to post assessments were evaluated using a nonparametric Wilcoxon signed rank test. Comparisons of changes from the pre- to post assessments of physio suite HRV parameters between study groups were conducted using a nonparametric Wilcoxon rank sum test. All other outcome measures were summarized in terms of means and standard deviation, stratified by study arm and assessment time point. Changes in those outcome measures within groups from the pre- to post assessments were evaluated using a paired t-test while comparisons of changes from the pre- to post assessments between study groups were conducted using a two-sample t-test. The intent-to-treat population was used as the primary analysis population. All reported P-values are two-sided and $P<0.05$ was used to define statistical significance.

## Results

### Demographics

The age range for this study was 40-79, with the average age being 71. The population was ¼ men and the rest were women.

### Biowell

The Biowell provided the information and areas of statistical relevance as follows (Tables 1-11)

| Parameter | Finger | Name | p-value |
|---|---|---|---|
| Area | L Ring Finger | 2. Nervous system | 0.054 |
| Area | L Thumb Finger | 1. Right eye | 0.036 |
| Area | L Thumb Finger | 3. Jaw, Teeth right side | 0.012 |
| Area | R Fore Finger | 6. Blind gut | 0.034 |
| Area | R Fore Finger | Whole image | 0.055 |
| Area | R Middle Finger | 1. Thorax zone, Respiratory system | 0.068 |
| Area | R Ring Finger | 4. Adrenal | 0.042 |
| Area | R Thumb Finger | 6. Left ear, Nose, Maxillary sinus | 0.094 |
| Area | R Thumb Finger | Whole image | 0.068 |
| Area (C), | L Fore Finger | 5. Sacrum | 0.06 |
| Area (C), | L Ring Finger | 2. Nervous system | 0.025 |
| Area (C), | L Thumb Finger | 1. Right eye | 0.085 |
| Area (C), | L Thumb Finger | 2. Right ear, Nose, Maxillary sinus | 0.097 |
| Area (C), | L Thumb Finger | 3. Jaw, Teeth right side | 0.015 |
| Area (C), | R Fore Finger | 6. Blind gut | 0.04 |
| Area (C), | R Ring Finger | 4. Adrenal | 0.058 |
| Area (C), | R Thumb Finger | 6. Left ear, Nose, Maxillary sinus | 0.06 |
| Area (C), | R Thumb Finger | Whole image | 0.08 |
| Norm area | L Ring Finger | 1. Hypothalamus | 0.081 |
| Norm area | L Ring Finger | 3. Spleen | 0.099 |
| Norm area | L Ring Finger | 6. Pancreas | 0.094 |
| Norm area | L Ring Finger | 8. Pituitary gland | 0.014 |
| Norm area | L Ring Finger | 9. Epiphysis | 0.042 |
| Norm area | L Ring Finger | Whole image | 0.046 |
| Norm area | L Thumb Finger | 1. Right eye | 0.089 |
| Norm area | L Thumb Finger | 3. Jaw, Teeth right side | 0.068 |
| Norm area | R Ring Finger | 7. Nervous system | 0.035 |
| Intensity | L Little Finger | 4. Jejunum | 0.089 |
| Intensity | L Middle Finger | 7. Cerebral zone (vessels) | 0.02 |
| Intensity | R Ring Finger | 7. Nervous system | 0.05 |
| Inner area | L Ring Finger | 1. Hypothalamus | 0.047 |
| Inner area | L Ring Finger | 3. Spleen | 0.075 |
| Inner area | L Ring Finger | 4. Urogenital system | 0.04 |
| Inner area | L Ring Finger | 5. Adrenal | 0.012 |
| Inner area | L Ring Finger | 6. Pancreas | 0.016 |
| Inner area | L Ring Finger | 7. Thyroid gland | 0.071 |
| Inner area | L Ring Finger | 9. Epiphysis | 0.029 |
| Inner area | L Ring Finger | Whole image | 0.027 |
| Inner area | R Ring Finger | 7. Nervous system | 0.09 |

**Table 1:** Water 3 Biowell Comparisons of Changes between Groups.

| Parameter | Finger | Name | p-value |
|---|---|---|---|
| Inner noise | L Thumb Finger | 3. Jaw, Teeth right side | 0.039 |
| Inner noise | L Thumb Finger | 5. Jaw, Teeth left side | 0.056 |
| Inner noise | R Fore Finger | 4. Sacrum | 0.091 |
| Inner noise | R Fore Finger | 5. Coccyx, Pelvis minor zone | 0.006 |
| Inner noise (%) | L Ring Finger | 1. Hypothalamus | 0.021 |
| Inner noise (%) | L Ring Finger | 5. Adrenal | 0.056 |
| Inner noise (%) | L Ring Finger | 7. Thyroid gland | 0.055 |
| Inner noise (%) | L Ring Finger | 8. Pituitary gland | 0.038 |
| Inner noise (%) | L Ring Finger | 9. Epiphysis | 0.018 |
| Inner noise (%) | L Ring Finger | Whole image | 0.035 |
| Inner noise (%) | L Thumb Finger | 3. Jaw, Teeth right side | 0.054 |
| Inner noise (%) | L Thumb Finger | 5. Jaw, Teeth left side | 0.006 |
| Inner noise (%) | R Fore Finger | 4. Sacrum | 0.099 |
| Inner noise (%) | R Fore Finger | 5. Coccyx, Pelvis minor zone | 0.014 |
| Inner noise (%) | R Ring Finger | 6. Spleen | 0.069 |
| Inner noise (%) | R Ring Finger | 7. Nervous system | 0.084 |
| Inner noise (%) | R Ring Finger | 8. Hypothalamus | 0.064 |
| Inner noise (%) | R Thumb Finger | 5. Jaw, Teeth left side | 0.068 |
| Energy | L Ring Finger | 2. Nervous system | 0.049 |
| Energy | L Thumb Finger | 1. Right eye | 0.03 |
| Energy | L Thumb Finger | 3. Jaw, Teeth right side | 0.017 |
| Energy | R Fore Finger | 4. Sacrum | 0.086 |
| Energy | R Fore Finger | 6. Blind gut | 0.028 |
| Energy | R Fore Finger | Whole image | 0.092 |
| Energy | R Ring Finger | 4. Adrenal | 0.072 |
| Energy | R Ring Finger | 7. Nervous system | 0.091 |
| Energy (C), | L Ring Finger | 2. Nervous system | 0.034 |
| Energy (C), | L Thumb Finger | 1. Right eye | 0.026 |
| Energy (C), | L Thumb Finger | 3. Jaw, Teeth right side | 0.016 |
| Energy (C), | R Fore Finger | 4. Sacrum | 0.08 |
| Energy (C), | R Fore Finger | 5. Coccyx, Pelvis minor zone | 0.095 |
| Energy (C), | R Fore Finger | 6. Blind gut | 0.035 |
| Energy (C), | R Fore Finger | Whole image | 0.092 |
| Energy (C), | R Ring Finger | 4. Adrenal | 0.08 |
| Energy (C), | R Ring Finger | 7. Nervous system | 0.099 |

**Table 2:** Water 3 Biowell Comparisons of Changes between Groups.

| Parameter | Finger | Name | p-value |
|---|---|---|---|
| FC | L Fore Finger | 5. Sacrum, Prostate | 0.074 |
| FC | L Fore Finger | 6. Spine - lumbar zone | 0.089 |
| FC | L Middle Finger | 2. Left kidney | 0.048 |
| FC | L Middle Finger | 7. Cerebral zone (vessels) | 0.02 |
| FC | L Middle Finger | Whole image | 0.008 |
| FC | L Ring Finger | 1. Hypothalamus | 0.042 |

| | | | |
|---|---|---|---|
| FC | L Ring Finger | 9. Epiphysis | 0.021 |
| FC | L Thumb Finger | 3. Jaw, Teeth right side | 0.097 |
| FC | R Ring Finger | 6. Spleen | 0.022 |
| FC | R Ring Finger | 8. Hypothalamus | 0.054 |
| FC | R Thumb Finger | 1. Right eye | 0.099 |
| EC | L Fore Finger | 6. Spine - lumbar zone | 0.065 |
| EC | L Middle Finger | 2. Left kidney | 0.036 |
| EC | L Middle Finger | 7. Cerebral zone (vessels) | 0.015 |
| EC | L Middle Finger | Whole image | 0.009 |
| EC | L Ring Finger | 1. Hypothalamus | 0.02 |
| EC | L Ring Finger | 3. Spleen | 0.045 |
| EC | L Ring Finger | 5. Adrenal | 0.055 |
| EC | L Ring Finger | 8. Pituitary gland | 0.076 |
| EC | L Ring Finger | 9. Epiphysis | 0.01 |
| EC | L Ring Finger | Whole image | 0.012 |
| EC | L Thumb Finger | 3. Jaw, Teeth right side | 0.073 |
| EC | L Thumb Finger | 7. Left eye | 0.089 |
| EC | R Fore Finger | 3. Spine - lumbar zone | 0.045 |
| EC | R Fore Finger | 4. Sacrum, Prostate | 0.035 |
| EC | R Fore Finger | Whole image | 0.095 |
| EC | R Ring Finger | 6. Spleen | 0.009 |
| EC | R Ring Finger | 7. Nervous system | 0.003 |
| Inner contour length | L Middle Finger | 7. Cerebral zone (vessels) | 0.086 |
| Inner contour length | L Ring Finger | 1. Hypothalamus | 0.066 |
| Inner contour length | L Ring Finger | 3. Spleen | 0.022 |
| Inner contour length | L Ring Finger | 4. Urogenital system | 0.087 |
| Inner contour length | L Ring Finger | 5. Adrenal | 0.016 |
| Inner contour length | L Ring Finger | 6. Pancreas | 0.059 |
| Inner contour length | L Ring Finger | 7. Thyroid gland | 0.011 |
| Inner contour length | L Ring Finger | 8. Pituitary gland | 0.036 |
| Inner contour length | L Ring Finger | 9. Epiphysis | 0.018 |
| Inner contour length | L Ring Finger | Whole image | 0.012 |
| Inner contour length | R Ring Finger | 3. Pancreas | 0.05 |
| Inner contour length | R Ring Finger | 6. Spleen | 0.086 |
| Inner contour length | R Ring Finger | 7. Nervous system | 0.044 |

**Table 3:** Water 3 Biowell Comparisons of Changes between Groups.

| Parameter | Finger | Name | p-value |
|---|---|---|---|
| Inner contour radius | L Ring Finger | 1. Hypothalamus | 0.023 |
| Inner contour radius | L Ring Finger | 3. Spleen | 0.047 |
| Inner contour radius | L Ring Finger | 4. Urogenital system | 0.053 |
| Inner contour radius | L Ring Finger | 5. Adrenal | 0.013 |
| Inner contour radius | L Ring Finger | 6. Pancreas | 0.009 |
| Inner contour radius | L Ring Finger | 7. Thyroid gland | 0.098 |
| Inner contour radius | L Ring Finger | 8. Pituitary gland | 0.078 |
| Inner contour radius | L Ring Finger | 9. Epiphysis | 0.034 |
| Inner contour radius | L Ring Finger | Whole image | 0.031 |
| Inner contour radius | R Ring Finger | 8. Hypothalamus | 0.083 |
| Outer contour length | L Fore Finger | 5. Sacrum | 0.078 |
| Outer contour length | L Middle Finger | 2. Left kidney | 0.056 |
| Outer contour length | L Middle Finger | Whole image | 0.045 |
| Outer contour length | L Ring Finger | 6. Pancreas | 0.081 |
| Outer contour length | L Thumb Finger | 3. Jaw, Teeth right side | 0.03 |
| Outer contour length | L Thumb Finger | 7. Left eye | 0.034 |
| Outer contour length | R Ring Finger | 6. Spleen | 0.084 |
| Outer contour length | R Thumb Finger | 1. Right eye | 0.045 |
| Outer contour radius | L Ring Finger | 4. Urogenital system | 0.043 |
| Outer contour radius | L Ring Finger | 5. Adrenal | 0.012 |
| Outer contour radius | L Ring Finger | 6. Pancreas | 0.013 |
| Outer contour radius | L Ring Finger | 7. Thyroid gland | 0.093 |
| Outer contour radius | L Ring Finger | Whole image | 0.079 |
| Outer contour radius | L Thumb Finger | 5. Jaw, Teeth left side | 0.049 |
| Outer contour radius | R Little Finger | 5. Heart | 0.071 |
| Outer contour radius | R Ring Finger | 4. Adrenal | 0.011 |
| Outer contour radius | R Ring Finger | 8. Hypothalamus | 0.082 |

**Table 4:** Water 3 Biowell Comparisons of Changes between Groups.

| Parameter | Finger | Name | Time | p-value |
|---|---|---|---|---|
| Area | L Middle Finger | 7. Cerebral zone (vessels) | Pre | |
| Area | L Middle Finger | 7. Cerebral zone (vessels) | Post | |
| Area | L Middle Finger | 7. Cerebral zone (vessels) | Change Pre-Post | 0.023 |
| Area | L Thumb Finger | 3. Jaw, Teeth right side | Pre | |
| Area | L Thumb Finger | 3. Jaw, Teeth right side | Post | |
| Area | L Thumb Finger | 3. Jaw, Teeth right side | Change Pre-Post | 0.015 |
| Area | R Thumb Finger | 8. Cerebral zone (cortex) | Pre | |
| Area | R Thumb Finger | 8. Cerebral zone (cortex) | Post | |
| Area | R Thumb Finger | 8. Cerebral zone (cortex) | Change Pre-Post | 0.056 |
| Area (C), | L Fore Finger | 4. Coccyx, Pelvis minor zone | Pre | |
| Area (C), | L Fore Finger | 4. Coccyx, Pelvis minor zone | Post | |
| Area (C), | L Fore Finger | 4. Coccyx, Pelvis minor zone | Change Pre-Post | 0.038 |

| | | | | |
|---|---|---|---|---|
| Area (C), | L Fore Finger | 5. Sacrum | Pre | |
| Area (C), | L Fore Finger | 5. Sacrum | Post | |
| Area (C), | L Fore Finger | 5. Sacrum | Change Pre-Post | 0.057 |
| Area (C), | L Middle Finger | 7. Cerebral zone (vessels) | Pre | |
| Area (C), | L Middle Finger | 7. Cerebral zone (vessels) | Post | |
| Area (C), | L Middle Finger | 7. Cerebral zone (vessels) | Change Pre-Post | 0.021 |
| Area (C), | R Thumb Finger | 8. Cerebral zone (cortex) | Pre | |
| Area (C), | R Thumb Finger | 8. Cerebral zone (cortex) | Post | |
| Area (C), | R Thumb Finger | 8. Cerebral zone (cortex) | Change Pre-Post | 0.047 |
| Norm area | L Fore Finger | 3. Rectum | Pre | |
| Norm area | L Fore Finger | 3. Rectum | Post | |
| Norm area | L Fore Finger | 3. Rectum | Change Pre-Post | 0.018 |
| Norm area | L Little Finger | 6. Coronary vessels | Pre | |
| Norm area | L Little Finger | 6. Coronary vessels | Post | |
| Norm area | L Little Finger | 6. Coronary vessels | Change Pre-Post | 0.026 |
| Norm area | L Middle Finger | 7. Cerebral zone (vessels) | Pre | |
| Norm area | L Middle Finger | 7. Cerebral zone (vessels) | Post | |
| Norm area | L Middle Finger | 7. Cerebral zone (vessels) | Change Pre-Post | 0.056 |

**Table 5:** Water 3 Biowell Supplement group.

| Parameter | Finger | Name | Time | p-value |
|---|---|---|---|---|
| Intensity | L Fore Finger | 9. Transverse colon | Pre | |
| Intensity | L Fore Finger | 9. Transverse colon | Post | |
| Intensity | L Fore Finger | 9. Transverse colon | Change Pre-Post | 0.022 |
| Intensity | L Little Finger | 1. Left part of heart | Pre | |
| Intensity | L Little Finger | 1. Left part of heart | Post | |
| Intensity | L Little Finger | 1. Left part of heart | Change Pre-Post | 0.039 |
| Intensity | L Middle Finger | 7. Cerebral zone (vessels) | Pre | |
| Intensity | L Middle Finger | 7. Cerebral zone (vessels) | Post | |
| Intensity | L Middle Finger | 7. Cerebral zone (vessels) | Change Pre-Post | 0.049 |
| Intensity | R Fore Finger | 5. Coccyx, Pelvis minor zone | Pre | |
| Intensity | R Fore Finger | 5. Coccyx, Pelvis minor zone | Post | |
| Intensity | R Fore Finger | 5. Coccyx, Pelvis minor zone | Change Pre-Post | 0.053 |
| Intensity | R Middle Finger | 2. Immune system | Pre | |
| Intensity | R Middle Finger | 2. Immune system | Post | |
| Intensity | R Middle Finger | 2. Immune system | Change Pre-Post | 0.053 |
| Intensity | R Thumb Finger | 6. Left ear, Nose, Maxillary sinus | Pre | |
| Intensity | R Thumb Finger | 6. Left ear, Nose, Maxillary sinus | Post | |
| Intensity | R Thumb Finger | 6. Left ear, Nose, Maxillary sinus | Change Pre-Post | 0.031 |
| Inner area | L Fore Finger | 4. Coccyx, Pelvis minor zone | Pre | |
| Inner area | L Fore Finger | 4. Coccyx, Pelvis minor zone | Post | |
| Inner area | L Fore Finger | 4. Coccyx, Pelvis minor zone | Change Pre-Post | 0.039 |
| Inner area | L Fore Finger | 5. Sacrum | Pre | |
| Inner area | L Fore Finger | 5. Sacrum | Post | |
| Inner area | L Fore Finger | 5. Sacrum | Change Pre-Post | 0.052 |
| Inner area | R Fore Finger | 4. Sacrum | Pre | |
| Inner area | R Fore Finger | 4. Sacrum | Post | |
| Inner area | R Fore Finger | 4. Sacrum | Change Pre-Post | 0.012 |
| Inner area | R Fore Finger | 5. Coccyx, Pelvis minor zone | Pre | |
| Inner area | R Fore Finger | 5. Coccyx, Pelvis minor zone | Post | |
| Inner area | R Fore Finger | 5. Coccyx, Pelvis minor zone | Change Pre-Post | 0.035 |
| Inner area | R Thumb Finger | 1. Right eye | Pre | |
| Inner area | R Thumb Finger | 1. Right eye | Post | |
| Inner area | R Thumb Finger | 1. Right eye | Change Pre-Post | 0.053 |

**Table 6:** Water 3 Biowell Supplement group.

| Parameter | Finger | Name | Time | p-value |
|---|---|---|---|---|
| Inner noise | L Fore Finger | 3. Rectum | Pre | |
| Inner noise | L Fore Finger | 3. Rectum | Post | |
| Inner noise | L Fore Finger | 3. Rectum | Change Pre-Post | 0.047 |
| Inner noise | L Thumb Finger | 3. Jaw, Teeth right side | Pre | |
| Inner noise | L Thumb Finger | 3. Jaw, Teeth right side | Post | |
| Inner noise | L Thumb Finger | 3. Jaw, Teeth right side | Change Pre-Post | 0.033 |
| Inner noise | L Thumb Finger | 5. Jaw, Teeth left side | Pre | |
| Inner noise | L Thumb Finger | 5. Jaw, Teeth left side | Post | |
| Inner noise | L Thumb Finger | 5. Jaw, Teeth left side | Change Pre-Post | 0.018 |
| Inner noise | R Ring Finger | 4. Adrenal | Pre | |

| | | | | |
|---|---|---|---|---|
| Inner noise | R Ring Finger | 4. Adrenal | Post | |
| Inner noise | R Ring Finger | 4. Adrenal | Change Pre-Post | 0.003 |
| Inner noise | R Thumb Finger | 5. Jaw, Teeth left side | Pre | |
| Inner noise | R Thumb Finger | 5. Jaw, Teeth left side | Post | |
| Inner noise | R Thumb Finger | 5. Jaw, Teeth left side | Change Pre-Post | 0.044 |
| Inner noise (%) | L Fore Finger | 3. Rectum | Pre | |
| Inner noise (%) | L Fore Finger | 3. Rectum | Post | |
| Inner noise (%) | L Fore Finger | 3. Rectum | Change Pre-Post | 0.018 |
| Inner noise (%) | L Little Finger | 1. Left part of heart | Pre | |
| Inner noise (%) | L Little Finger | 1. Left part of heart | Post | |
| Inner noise (%) | L Little Finger | 1. Left part of heart | Change Pre-Post | 0.042 |
| Inner noise (%) | L Little Finger | 2. Left kidney | Pre | |
| Inner noise (%) | L Little Finger | 2. Left kidney | Post | |
| Inner noise (%) | L Little Finger | 2. Left kidney | Change Pre-Post | 0.008 |
| Inner noise (%) | L Ring Finger | 9. Epiphysis | Pre | |
| Inner noise (%) | L Ring Finger | 9. Epiphysis | Post | |
| Inner noise (%) | L Ring Finger | 9. Epiphysis | Change Pre-Post | 0.044 |
| Inner noise (%) | L Thumb Finger | 5. Jaw, Teeth left side | Pre | |
| Inner noise (%) | L Thumb Finger | 5. Jaw, Teeth left side | Post | |
| Inner noise (%) | L Thumb Finger | 5. Jaw, Teeth left side | Change Pre-Post | 0.02 |
| Inner noise (%) | R Ring Finger | 4. Adrenal | Pre | |
| Inner noise (%) | R Ring Finger | 4. Adrenal | Post | |
| Inner noise (%) | R Ring Finger | 4. Adrenal | Change Pre-Post | 0.047 |
| Inner noise (%) | R Thumb Finger | 5. Jaw, Teeth left side | Pre | |
| Inner noise (%) | R Thumb Finger | 5. Jaw, Teeth left side | Post | |
| Inner noise (%) | R Thumb Finger | 5. Jaw, Teeth left side | Change Pre-Post | 0.024 |

**Table 7:** Water 3 Biowell Supplement group.

| Parameter | Finger | Name | Time | p-value |
|---|---|---|---|---|
| Energy | L Middle Finger | 7. Cerebral zone (vessels) | Pre | |
| Energy | L Middle Finger | 7. Cerebral zone (vessels) | Post | |
| Energy | L Middle Finger | 7. Cerebral zone (vessels) | Change Pre-Post | 0.03 |
| Energy | L Thumb Finger | 3. Jaw, Teeth right side | Pre | |
| Energy | L Thumb Finger | 3. Jaw, Teeth right side | Post | |
| Energy | L Thumb Finger | 3. Jaw, Teeth right side | Change Pre-Post | 0.014 |
| Energy | R Little Finger | 3. Mammary glands, Respiratory system | Pre | |
| Energy | R Little Finger | 3. Mammary glands, Respiratory system | Post | |
| Energy | R Little Finger | 3. Mammary glands, Respiratory system | Change Pre-Post | 0.009 |
| Energy | R Thumb Finger | 8. Cerebral zone (cortex) | Pre | |
| Energy | R Thumb Finger | 8. Cerebral zone (cortex) | Post | |
| Energy | R Thumb Finger | 8. Cerebral zone (cortex) | Change Pre-Post | 0.019 |
| Energy (C), | L Middle Finger | 7. Cerebral zone (vessels) | Pre | |
| Energy (C), | L Middle Finger | 7. Cerebral zone (vessels) | Post | |
| Energy (C), | L Middle Finger | 7. Cerebral zone (vessels) | Change Pre-Post | 0.029 |
| Energy (C), | L Thumb Finger | 3. Jaw, Teeth right side | Pre | |
| Energy (C), | L Thumb Finger | 3. Jaw, Teeth right side | Post | |
| Energy (C), | L Thumb Finger | 3. Jaw, Teeth right side | Change Pre-Post | 0.015 |
| Energy (C), | R Little Finger | 3. Mammary glands, Respiratory system | Pre | |
| Energy (C), | R Little Finger | 3. Mammary glands, Respiratory system | Post | |
| Energy (C), | R Little Finger | 3. Mammary glands, Respiratory system | Change Pre-Post | 0.009 |
| Energy (C), | R Thumb Finger | 8. Cerebral zone (cortex) | Pre | |
| Energy (C), | R Thumb Finger | 8. Cerebral zone (cortex) | Post | |
| Energy (C), | R Thumb Finger | 8. Cerebral zone (cortex) | Change Pre-Post | 0.017 |
| FC | L Fore Finger | 6. Spine - lumbar zone | Pre | |
| FC | L Fore Finger | 6. Spine - lumbar zone | Post | |

| | | | | |
|---|---|---|---|---|
| FC | L Fore Finger | 6. Spine - lumbar zone | Change Pre-Post | 0.032 |
| FC | L Little Finger | 5. Right part of heart | Pre | |
| FC | L Little Finger | 5. Right part of heart | Post | |
| FC | L Little Finger | 5. Right part of heart | Change Pre-Post | 0.04 |
| FC | L Middle Finger | 2. Left kidney | Pre | |
| FC | L Middle Finger | 2. Left kidney | Post | |
| FC | L Middle Finger | 2. Left kidney | Change Pre-Post | 0.029 |
| FC | L Middle Finger | Whole image | Pre | |
| FC | L Middle Finger | Whole image | Post | |
| FC | L Middle Finger | Whole image | Change Pre-Post | 0.009 |
| FC | L Ring Finger | 4. Urogenital system | Pre | |
| FC | L Ring Finger | 4. Urogenital system | Post | |
| FC | L Ring Finger | 4. Urogenital system | Change Pre-Post | 0.046 |

**Table 8:** Water 3 Biowell Supplement group.

| Parameter | Finger | Name | Time | p-value |
|---|---|---|---|---|
| FC | L Ring Finger | 6. Pancreas | Pre | |
| FC | L Ring Finger | 6. Pancreas | Post | |
| FC | L Ring Finger | 6. Pancreas | Change Pre-Post | 0.015 |
| FC | R Thumb Finger | 6. Left ear, Nose, Maxillary sinus | Pre | |
| FC | R Thumb Finger | 6. Left ear, Nose, Maxillary sinus | Post | |
| FC | R Thumb Finger | 6. Left ear, Nose, Maxillary sinus | Change Pre-Post | 0.059 |
| EC | L Little Finger | 3. Mammary glands, Respiratory system | Pre | |
| EC | L Little Finger | 3. Mammary glands, Respiratory system | Post | |
| EC | L Little Finger | 3. Mammary glands, Respiratory system | Change Pre-Post | 0.058 |
| EC | L Middle Finger | 2. Left kidney | Pre | |
| EC | L Middle Finger | 2. Left kidney | Post | |
| EC | L Middle Finger | 2. Left kidney | Change Pre-Post | 0.046 |
| EC | L Ring Finger | 8. Pituitary gland | Pre | |
| EC | L Ring Finger | 8. Pituitary gland | Post | |
| EC | L Ring Finger | 8. Pituitary gland | Change Pre-Post | 0.058 |
| EC | R Ring Finger | 6. Spleen | Pre | |
| EC | R Ring Finger | 6. Spleen | Post | |
| EC | R Ring Finger | 6. Spleen | Change Pre-Post | 0.038 |
| EC | R Ring Finger | 7. Nervous system | Pre | |
| EC | R Ring Finger | 7. Nervous system | Post | |
| EC | R Ring Finger | 7. Nervous system | Change Pre-Post | 0.01 |
| EC | R Thumb Finger | 8. Cerebral zone (cortex) | Pre | |
| EC | R Thumb Finger | 8. Cerebral zone (cortex) | Post | |
| EC | R Thumb Finger | 8. Cerebral zone (cortex) | Change Pre-Post | 0.007 |
| Inner contour length | L Little Finger | 3. Mammary glands, Respiratory system | Pre | |
| Inner contour length | L Little Finger | 3. Mammary glands, Respiratory system | Post | |
| Inner contour length | L Little Finger | 3. Mammary glands, Respiratory system | Change Pre-Post | 0.044 |
| Inner contour length | L Ring Finger | 7. Thyroid gland | Pre | |
| Inner contour length | L Ring Finger | 7. Thyroid gland | Post | |
| Inner contour length | L Ring Finger | 7. Thyroid gland | Change Pre-Post | 0.01 |

**Table 9:** Water 3 Biowell Supplement group.

| Parameter | Finger | Name | Time | p-value |
|---|---|---|---|---|
| Inner contour radius | L Fore Finger | 4. Coccyx, Pelvis minor zone | Pre | |
| Inner contour radius | L Fore Finger | 4. Coccyx, Pelvis minor zone | Post | |
| Inner contour radius | L Fore Finger | 4. Coccyx, Pelvis minor zone | Change Pre-Post | 0.044 |
| Inner contour radius | L Fore Finger | 5. Sacrum | Pre | |
| Inner contour radius | L Fore Finger | 5. Sacrum | Post | |
| Inner contour radius | L Fore Finger | 5. Sacrum | Change Pre-Post | 0.037 |
| Inner contour radius | R Fore Finger | 4. Sacrum | Pre | |
| Inner contour radius | R Fore Finger | 4. Sacrum | Post | |
| Inner contour radius | R Fore Finger | 4. Sacrum | Change Pre-Post | 0.032 |

| | | | | |
|---|---|---|---|---|
| Inner contour radius | R Thumb Finger | 2. Right ear, Nose, Maxillary sinus | Pre | |
| Inner contour radius | R Thumb Finger | 2. Right ear, Nose, Maxillary sinus | Post | |
| Inner contour radius | R Thumb Finger | 2. Right ear, Nose, Maxillary sinus | Change Pre-Post | 0.047 |
| Inner contour radius | R Thumb Finger | 6. Left ear, Nose, Maxillary sinus | Pre | |
| Inner contour radius | R Thumb Finger | 6. Left ear, Nose, Maxillary sinus | Post | |
| Inner contour radius | R Thumb Finger | 6. Left ear, Nose, Maxillary sinus | Change Pre-Post | 0.033 |
| Outer contour length | L Fore Finger | 4. Coccyx, Pelvis minor zone, Prostate | Pre | |
| Outer contour length | L Fore Finger | 4. Coccyx, Pelvis minor zone, Prostate | Post | |
| Outer contour length | L Fore Finger | 4. Coccyx, Pelvis minor zone, Prostate | Change Pre-Post | 0.039 |
| Outer contour length | L Little Finger | 5. Right part of heart | Pre | |
| Outer contour length | L Little Finger | 5. Right part of heart | Post | |
| Outer contour length | L Little Finger | 5. Right part of heart | Change Pre-Post | 0.052 |

**Table 10:** Water 3 Biowell Supplement group.

| Parameter | Finger | Name | Time | p-value |
|---|---|---|---|---|
| Outer contour length | L Middle Finger | 2. Left kidney | Pre | |
| Outer contour length | L Middle Finger | 2. Left kidney | Post | |
| Outer contour length | L Middle Finger | 2. Left kidney | Change Pre-Post | 0.036 |
| Outer contour length | L Middle Finger | 7. Cerebral zone (vessels) | Pre | |
| Outer contour length | L Middle Finger | 7. Cerebral zone (vessels) | Post | |
| Outer contour length | L Middle Finger | 7. Cerebral zone (vessels) | Change Pre-Post | 0.055 |
| Outer contour length | L Middle Finger | Whole image | Pre | |
| Outer contour length | L Middle Finger | Whole image | Post | |
| Outer contour length | L Middle Finger | Whole image | Change Pre-Post | 0.021 |
| Outer contour length | L Ring Finger | 4. Urogenital system | Pre | |
| Outer contour length | L Ring Finger | 4. Urogenital system | Post | |
| Outer contour length | L Ring Finger | 4. Urogenital system | Change Pre-Post | 0.014 |
| Outer contour length | L Ring Finger | 6. Pancreas | Pre | |
| Outer contour length | L Ring Finger | 6. Pancreas | Post | |
| Outer contour length | L Ring Finger | 6. Pancreas | Change Pre-Post | 0.024 |
| Outer contour length | L Thumb Finger | 7. Left eye | Pre | |
| Outer contour length | L Thumb Finger | 7. Left eye | Post | |
| Outer contour length | L Thumb Finger | 7. Left eye | Change Pre-Post | 0.051 |
| Outer contour length | R Little Finger | 2. Ileum | Pre | |
| Outer contour length | R Little Finger | 2. Ileum | Post | |
| Outer contour length | R Little Finger | 2. Ileum | Change Pre-Post | 0.045 |
| Outer contour length | R Thumb Finger | 5. Jaw, Teeth left side | Pre | |
| Outer contour length | R Thumb Finger | 5. Jaw, Teeth left side | Post | |
| Outer contour length | R Thumb Finger | 5. Jaw, Teeth left side | Change Pre-Post | 0.04 |
| Outer contour radius | L Fore Finger | 1. Descending colon | Pre | |
| Outer contour radius | L Fore Finger | 1. Descending colon | Post | |
| Outer contour radius | L Fore Finger | 1. Descending colon | Change Pre-Post | 0.035 |
| Outer contour radius | L Little Finger | 4. Jejunum | Pre | |
| Outer contour radius | L Little Finger | 4. Jejunum | Post | |
| Outer contour radius | L Little Finger | 4. Jejunum | Change Pre-Post | 0.023 |
| Outer contour radius | L Ring Finger | 6. Pancreas | Pre | |
| Outer contour radius | L Ring Finger | 6. Pancreas | Post | |
| Outer contour radius | L Ring Finger | 6. Pancreas | Change Pre-Post | 0.054 |
| Outer contour radius | R Ring Finger | 4. Adrenal | Pre | |
| Outer contour radius | R Ring Finger | 4. Adrenal | Post | |
| Outer contour radius | R Ring Finger | 4. Adrenal | Change Pre-Post | 0.047 |

**Table 11:** Water 3 Biowell Supplement group.

## BioPulsar

The BioPulsar provided the information and areas of statistical relevance as follows (Tables 12-27)

| Parameter | TimePoint | Time | Mean | SD | p-value (change within Group) |
|---|---|---|---|---|---|
| Nose | 30 seconds | Pre | 3.41 | 3.18 | |
| Nose | 30 seconds | Post | 6.75 | 1.02 | |

| | | | | | |
|---|---|---|---|---|---|
| Nose | 30 seconds | Change Pre-Post | 3.34 | 3.17 | 0.009 |
| Nose | 60 seconds | Pre | 3.76 | 3.25 | |
| Nose | 60 seconds | Post | 6.26 | 2.07 | |
| Nose | 60 seconds | Change Pre-Post | 2.5 | 3.31 | 0.041 |
| Nose | 90 seconds | Pre | 4.32 | 3.17 | |
| Nose | 90 seconds | Post | 5.33 | 2.52 | |
| Nose | 90 seconds | Change Pre-Post | 1.02 | 3.78 | 0.418 |
| Nose | End | Pre | 5.25 | 2.52 | |
| Nose | End | Post | 5.35 | 2.69 | |
| Nose | End | Change Pre-Post | 0.1 | 2.68 | 0.913 |
| Esophagus | 30 seconds | Pre | 1.78 | 2.27 | |
| Esophagus | 30 seconds | Post | 3.42 | 3.46 | |
| Esophagus | 30 seconds | Change Pre-Post | 1.63 | 2.68 | 0.086 |
| Esophagus | 60 seconds | Pre | 1.72 | 2.32 | |
| Esophagus | 60 seconds | Post | 3.34 | 3.38 | |
| Esophagus | 60 seconds | Change Pre-Post | 1.62 | 2.65 | 0.084 |
| Esophagus | 90 seconds | Pre | 1.17 | 1.82 | |
| Esophagus | 90 seconds | Post | 2.39 | 3.05 | |
| Esophagus | 90 seconds | Change Pre-Post | 1.21 | 3.82 | 0.343 |
| Esophagus | End | Pre | 0.94 | 1.29 | |
| Esophagus | End | Post | 2.34 | 2.97 | |
| Esophagus | End | Change Pre-Post | 1.4 | 2.57 | 0.118 |
| Lung | 30 seconds | Pre | 6.72 | 2.29 | |
| Lung | 30 seconds | Post | 6.71 | 1.96 | |
| Lung | 30 seconds | Change Pre-Post | -0.01 | 2.94 | 0.995 |
| Lung | 60 seconds | Pre | 5.4 | 3.02 | |
| Lung | 60 seconds | Post | 7.21 | 0.96 | |
| Lung | 60 seconds | Change Pre-Post | 1.81 | 2.57 | 0.054 |
| Lung | 90 seconds | Pre | 5.44 | 3.44 | |
| Lung | 90 seconds | Post | 7.23 | 0.67 | |
| Lung | 90 seconds | Change Pre-Post | 1.79 | 3.51 | 0.142 |
| Lung | End | Pre | 5.36 | 3.37 | |
| Lung | End | Post | 7.3 | 0.94 | |
| Lung | End | Change Pre-Post | 1.94 | 3.37 | 0.102 |

**Table 12:** Water 3 Biopulsar Supplement group.

| Parameter | TimePoint | Time | Mean | SD | p-value (change within Group) |
|---|---|---|---|---|---|
| Heart | 30 seconds | Pre | 7.49 | 0.66 | |
| Heart | 30 seconds | Post | 7 | 0.83 | |
| Heart | 30 seconds | Change Pre-Post | -0.49 | 1.12 | 0.202 |
| Heart | 60 seconds | Pre | 7.56 | 0.96 | |
| Heart | 60 seconds | Post | 6.54 | 2.28 | |
| Heart | 60 seconds | Change Pre-Post | -1.02 | 2.87 | 0.29 |
| Heart | 90 seconds | Pre | 7.44 | 0.74 | |
| Heart | 90 seconds | Post | 5.69 | 2.8 | |
| Heart | 90 seconds | Change Pre-Post | -1.75 | 2.74 | 0.074 |
| Heart | End | Pre | 7.4 | 0.79 | |
| Heart | End | Post | 5.85 | 2.96 | |
| Heart | End | Change Pre-Post | -1.55 | 2.92 | 0.127 |
| Duodenum | 30 seconds | Pre | 7.05 | 2.41 | |
| Duodenum | 30 seconds | Post | 6.13 | 3.05 | |
| Duodenum | 30 seconds | Change Pre-Post | -0.92 | 2.68 | 0.307 |
| Duodenum | 60 seconds | Pre | 7.05 | 2.42 | |
| Duodenum | 60 seconds | Post | 6.11 | 3.05 | |
| Duodenum | 60 seconds | Change Pre-Post | -0.93 | 2.6 | 0.286 |
| Duodenum | 90 seconds | Pre | 6.7 | 3.19 | |
| Duodenum | 90 seconds | Post | 6.34 | 3.21 | |
| Duodenum | 90 seconds | Change Pre-Post | -0.36 | 0.49 | 0.044 |
| Duodenum | End | Pre | 6.91 | 2.31 | |
| Duodenum | End | Post | 5.86 | 3.51 | |
| Duodenum | End | Change Pre-Post | -1.05 | 2.78 | 0.262 |
| Small Intestine | 30 seconds | Pre | 6.09 | 2.85 | |
| Small Intestine | 30 seconds | Post | 5.22 | 2.7 | |
| Small Intestine | 30 seconds | Change Pre-Post | -0.87 | 1.16 | 0.043 |
| Small Intestine | 60 seconds | Pre | 6.77 | 2.36 | |
| Small Intestine | 60 seconds | Post | 5.43 | 2.7 | |
| Small Intestine | 60 seconds | Change Pre-Post | -1.34 | 2.27 | 0.095 |
| Small Intestine | 90 seconds | Pre | 6.67 | 2.27 | |
| Small Intestine | 90 seconds | Post | 6.45 | 2.22 | |
| Small Intestine | 90 seconds | Change Pre-Post | -0.23 | 3.59 | 0.847 |

| | | | | | |
|---|---|---|---|---|---|
| Small Intestine | End | Pre | 6.61 | 2.24 | |
| Small Intestine | End | Post | 5.75 | 2.67 | |
| Small Intestine | End | Change Pre-Post | -0.86 | 2.11 | 0.23 |

**Table 13:** Water 3 Biopulsar Supplement group.

| Parameter | TimePoint | Time | Mean | SD | p-value (change within Group) |
|---|---|---|---|---|---|
| Large Intestine, Sigmoidum | 30 seconds | Pre | 8.25 | 0.48 | |
| Large Intestine, Sigmoidum | 30 seconds | Post | 7.49 | 1.09 | |
| Large Intestine, Sigmoidum | 30 seconds | Change Pre-Post | -0.76 | 1.35 | 0.108 |
| Large Intestine, Sigmoidum | 60 seconds | Pre | 8.44 | 0.6 | |
| Large Intestine, Sigmoidum | 60 seconds | Post | 7.75 | 1.11 | |
| Large Intestine, Sigmoidum | 60 seconds | Change Pre-Post | -0.69 | 1.26 | 0.118 |
| Large Intestine, Sigmoidum | 90 seconds | Pre | 8.53 | 0.93 | |
| Large Intestine, Sigmoidum | 90 seconds | Post | 8.03 | 1.38 | |
| Large Intestine, Sigmoidum | 90 seconds | Change Pre-Post | -0.5 | 0.72 | 0.055 |
| Large Intestine, Sigmoidum | End | Pre | 8.23 | 1.13 | |
| Large Intestine, Sigmoidum | End | Post | 7.82 | 2.06 | |
| Large Intestine, Sigmoidum | End | Change Pre-Post | -0.41 | 1.27 | 0.329 |
| Urethra | 30 seconds | Pre | 7.69 | 0.58 | |
| Urethra | 30 seconds | Post | 6.83 | 1.19 | |
| Urethra | 30 seconds | Change Pre-Post | -0.86 | 1.5 | 0.104 |
| Urethra | 60 seconds | Pre | 6.85 | 2.21 | |
| Urethra | 60 seconds | Post | 6.91 | 1.02 | |
| Urethra | 60 seconds | Change Pre-Post | 0.06 | 2.37 | 0.941 |
| Urethra | 90 seconds | Pre | 7.41 | 1.2 | |
| Urethra | 90 seconds | Post | 6.53 | 1.3 | |
| Urethra | 90 seconds | Change Pre-Post | -0.89 | 1.32 | 0.062 |
| Urethra | End | Pre | 7.1 | 1.47 | |
| Urethra | End | Post | 6.51 | 1.44 | |
| Urethra | End | Change Pre-Post | -0.59 | 1.54 | 0.258 |

**Table 14:** Water 3 Biopulsar Supplement group.

| Parameter | TimePoint | Time | Mean | SD | p-value (change within Group) |
|---|---|---|---|---|---|
| Kidney | 30 seconds | Pre | 6.72 | 0.6 | |
| Kidney | 30 seconds | Post | 4.24 | 3.23 | |
| Kidney | 30 seconds | Change Pre-Post | -2.49 | 3.42 | 0.047 |
| Kidney | 60 seconds | Pre | 6.16 | 1.78 | |
| Kidney | 60 seconds | Post | 5.24 | 2.65 | |
| Kidney | 60 seconds | Change Pre-Post | -0.92 | 3.65 | 0.447 |
| Kidney | 90 seconds | Pre | 6.9 | 0.77 | |
| Kidney | 90 seconds | Post | 5.88 | 1.79 | |
| Kidney | 90 seconds | Change Pre-Post | -1.02 | 1.38 | 0.045 |
| Kidney | End | Pre | 7.01 | 0.59 | |
| Kidney | End | Post | 6.15 | 1.84 | |
| Kidney | End | Change Pre-Post | -0.86 | 1.78 | 0.16 |
| Adrenal Gland | 30 seconds | Pre | 7.17 | 0.4 | |
| Adrenal Gland | 30 seconds | Post | 6.4 | 2.08 | |
| Adrenal Gland | 30 seconds | Change Pre-Post | -0.77 | 2 | 0.254 |
| Adrenal Gland | 60 seconds | Pre | 5.85 | 2.74 | |
| Adrenal Gland | 60 seconds | Post | 6.19 | 2.19 | |
| Adrenal Gland | 60 seconds | Change Pre-Post | 0.34 | 2.36 | 0.656 |
| Adrenal Gland | 90 seconds | Pre | 6.73 | 2.13 | |
| Adrenal Gland | 90 seconds | Post | 5.64 | 2.68 | |
| Adrenal Gland | 90 seconds | Change Pre-Post | -1.09 | 2.2 | 0.15 |
| Adrenal Gland | End | Pre | 7.38 | 0.37 | |
| Adrenal Gland | End | Post | 5.33 | 3 | |
| Adrenal Gland | End | Change Pre-Post | -2.06 | 3.06 | 0.062 |
| Feet | 30 seconds | Pre | 7.25 | 1.13 | |
| Feet | 30 seconds | Post | 6.99 | 1.07 | |
| Feet | 30 seconds | Change Pre-Post | -0.26 | 0.43 | 0.084 |
| Feet | 60 seconds | Pre | 7.33 | 1.44 | |
| Feet | 60 seconds | Post | 6.86 | 1.08 | |
| Feet | 60 seconds | Change Pre-Post | -0.47 | 0.69 | 0.059 |
| Feet | 90 seconds | Pre | 7.09 | 1.32 | |
| Feet | 90 seconds | Post | 6.89 | 0.97 | |
| Feet | 90 seconds | Change Pre-Post | -0.2 | 0.87 | 0.486 |

| | | | | | |
|---|---|---|---|---|---|
| Feet | End | Pre | 7.04 | 1.6 | |
| Feet | End | Post | 7.03 | 0.99 | |
| Feet | End | Change Pre-Post | -0.01 | 1.54 | 0.992 |

**Table 15:** Water 3 Biopulsar Supplement group.

| Parameter | TimePoint | Time | Mean | SD | p-value (change within Group) |
|---|---|---|---|---|---|
| Average Lower Abdominal Area, Legs | 30 seconds | Pre | 6.97 | 0.38 | |
| Average Lower Abdominal Area, Legs | 30 seconds | Post | 6.6 | 1.16 | |
| Average Lower Abdominal Area, Legs | 30 seconds | Change Pre-Post | -0.37 | 0.98 | 0.269 |
| Average Lower Abdominal Area, Legs | 60 seconds | Pre | 6.95 | 0.58 | |
| Average Lower Abdominal Area, Legs | 60 seconds | Post | 6.59 | 0.84 | |
| Average Lower Abdominal Area, Legs | 60 seconds | Change Pre-Post | -0.37 | 0.59 | 0.079 |
| Average Lower Abdominal Area, Legs | 90 seconds | Pre | 6.96 | 1.02 | |
| Average Lower Abdominal Area, Legs | 90 seconds | Post | 6.63 | 0.85 | |
| Average Lower Abdominal Area, Legs | 90 seconds | Change Pre-Post | -0.33 | 0.6 | 0.12 |
| Average Lower Abdominal Area, Legs | End | Pre | 6.84 | 0.94 | |
| Average Lower Abdominal Area, Legs | End | Post | 6.57 | 0.85 | |
| Average Lower Abdominal Area, Legs | End | Change Pre-Post | -0.27 | 0.62 | 0.207 |

**Table 16:** Water 3 Biopulsar Supplement group.

| Parameter | TimePoint | Time | Mean | SD | p-value (change within Group) |
|---|---|---|---|---|---|
| Cerebrum, Mesencephalon | 30 seconds | Pre | 1.18 | 1.89 | |
| Cerebrum, Mesencephalon | 30 seconds | Post | 2.5 | 2.65 | |
| Cerebrum, Mesencephalon | 30 seconds | Change Pre-Post | 1.32 | 2.37 | 0.111 |
| Cerebrum, Mesencephalon | 60 seconds | Pre | 0.98 | 1.26 | |
| Cerebrum, Mesencephalon | 60 seconds | Post | 2.44 | 2.67 | |
| Cerebrum, Mesencephalon | 60 seconds | Change Pre-Post | 1.46 | 2.38 | 0.084 |
| Cerebrum, Mesencephalon | 90 seconds | Pre | 1.32 | 1.69 | |
| Cerebrum, Mesencephalon | 90 seconds | Post | 1.47 | 2.31 | |
| Cerebrum, Mesencephalon | 90 seconds | Change Pre-Post | 0.15 | 2.74 | 0.866 |
| Cerebrum, Mesencephalon | End | Pre | 1.07 | 1.63 | |
| Cerebrum, Mesencephalon | End | Post | 1.89 | 2.42 | |
| Cerebrum, Mesencephalon | End | Change Pre-Post | 0.82 | 2.58 | 0.341 |
| Temporal Brain | 30 seconds | Pre | 7.35 | 1.02 | |
| Temporal Brain | 30 seconds | Post | 7.29 | 0.47 | |
| Temporal Brain | 30 seconds | Change Pre-Post | -0.06 | 1.24 | 0.876 |
| Temporal Brain | 60 seconds | Pre | 7.21 | 1.04 | |
| Temporal Brain | 60 seconds | Post | 7.25 | 0.5 | |
| Temporal Brain | 60 seconds | Change Pre-Post | 0.04 | 1.16 | 0.916 |
| Temporal Brain | 90 seconds | Pre | 7.23 | 1.2 | |
| Temporal Brain | 90 seconds | Post | 7.52 | 0.58 | |
| Temporal Brain | 90 seconds | Change Pre-Post | 0.29 | 1.08 | 0.411 |
| Temporal Brain | End | Pre | 7.22 | 1.18 | |
| Temporal Brain | End | Post | 7.84 | 0.73 | |
| Temporal Brain | End | Change Pre-Post | 0.61 | 1 | 0.083 |

**Table 17:** Water 3 Biopulsar no Supplement group.

| Parameter | TimePoint | Time | Mean | SD | p-value (change within Group) |
|---|---|---|---|---|---|
| Thyroid | 30 seconds | Pre | 7.69 | 0.56 | |
| Thyroid | 30 seconds | Post | 7.29 | 0.38 | |
| Thyroid | 30 seconds | Change Pre-Post | -0.4 | 0.36 | 0.007 |
| Thyroid | 60 seconds | Pre | 7.52 | 0.63 | |
| Thyroid | 60 seconds | Post | 6.95 | 0.83 | |
| Thyroid | 60 seconds | Change Pre-Post | -0.57 | 1.14 | 0.146 |
| Thyroid | 90 seconds | Pre | 7.34 | 0.88 | |
| Thyroid | 90 seconds | Post | 6.94 | 0.63 | |
| Thyroid | 90 seconds | Change Pre-Post | -0.39 | 1.06 | 0.271 |
| Thyroid | End | Pre | 7.32 | 1.16 | |
| Thyroid | End | Post | 6.96 | 0.8 | |
| Thyroid | End | Change Pre-Post | -0.36 | 1.09 | 0.324 |
| Shoulder | 30 seconds | Pre | 5.61 | 2.22 | |
| Shoulder | 30 seconds | Post | 5.19 | 2.18 | |
| Shoulder | 30 seconds | Change Pre-Post | -0.42 | 1.39 | 0.37 |
| Shoulder | 60 seconds | Pre | 5.72 | 2.1 | |
| Shoulder | 60 seconds | Post | 4.86 | 2.47 | |
| Shoulder | 60 seconds | Change Pre-Post | -0.87 | 1.97 | 0.197 |

| | | | | | |
|---|---|---|---|---|---|
| Shoulder | 90 seconds | Pre | 5.83 | 2.08 | |
| Shoulder | 90 seconds | Post | 4.86 | 2.47 | |
| Shoulder | 90 seconds | Change Pre-Post | -0.98 | 2.07 | 0.17 |
| Shoulder | End | Pre | 5.82 | 2.27 | |
| Shoulder | End | Post | 4.19 | 2.84 | |
| Shoulder | End | Change Pre-Post | -1.63 | 2.78 | 0.097 |
| Lung | 30 seconds | Pre | 6.84 | 1.36 | |
| Lung | 30 seconds | Post | 5.93 | 2.22 | |
| Lung | 30 seconds | Change Pre-Post | -0.92 | 2.09 | 0.197 |
| Lung | 60 seconds | Pre | 6.81 | 1.4 | |
| Lung | 60 seconds | Post | 5.56 | 2.78 | |
| Lung | 60 seconds | Change Pre-Post | -1.25 | 2.09 | 0.091 |
| Lung | 90 seconds | Pre | 6.78 | 1.65 | |
| Lung | 90 seconds | Post | 5.58 | 2.79 | |
| Lung | 90 seconds | Change Pre-Post | -1.2 | 2.15 | 0.112 |
| Lung | End | Pre | 6.73 | 2.27 | |
| Lung | End | Post | 5.32 | 2.81 | |
| Lung | End | Change Pre-Post | -1.41 | 2.3 | 0.083 |

**Table 18:** Water 3 Biopulsar no Supplement group.

| Parameter | TimePoint | Time | Mean | SD | p-value (change within Group) |
|---|---|---|---|---|---|
| Heart | 30 seconds | Pre | 7.6 | 0.88 | |
| Heart | 30 seconds | Post | 6.44 | 2.15 | |
| Heart | 30 seconds | Change Pre-Post | -1.17 | 2.08 | 0.11 |
| Heart | 60 seconds | Pre | 7.55 | 0.88 | |
| Heart | 60 seconds | Post | 6.32 | 2.12 | |
| Heart | 60 seconds | Change Pre-Post | -1.24 | 2.19 | 0.108 |
| Heart | 90 seconds | Pre | 7.64 | 0.94 | |
| Heart | 90 seconds | Post | 5.81 | 2.88 | |
| Heart | 90 seconds | Change Pre-Post | -1.84 | 3.54 | 0.135 |
| Heart | End | Pre | 7.68 | 0.7 | |
| Heart | End | Post | 5.69 | 2.72 | |
| Heart | End | Change Pre-Post | -1.99 | 3.11 | 0.074 |
| Stomach | 30 seconds | Pre | 6.8 | 1.27 | |
| Stomach | 30 seconds | Post | 6.91 | 0.38 | |
| Stomach | 30 seconds | Change Pre-Post | 0.11 | 1.16 | 0.769 |
| Stomach | 60 seconds | Pre | 6.79 | 0.99 | |
| Stomach | 60 seconds | Post | 6.77 | 0.52 | |
| Stomach | 60 seconds | Change Pre-Post | -0.03 | 0.94 | 0.932 |
| Stomach | 90 seconds | Pre | 7.15 | 0.42 | |
| Stomach | 90 seconds | Post | 6.55 | 1.19 | |
| Stomach | 90 seconds | Change Pre-Post | -0.6 | 1.19 | 0.145 |
| Stomach | End | Pre | 7.32 | 0.47 | |
| Stomach | End | Post | 6.8 | 0.65 | |
| Stomach | End | Change Pre-Post | -0.52 | 0.61 | 0.024 |
| Pancreas | 30 seconds | Pre | 7.84 | 0.59 | |
| Pancreas | 30 seconds | Post | 7.5 | 0.57 | |
| Pancreas | 30 seconds | Change Pre-Post | -0.35 | 0.34 | 0.011 |
| Pancreas | 60 seconds | Pre | 7.86 | 0.62 | |
| Pancreas | 60 seconds | Post | 7.47 | 0.54 | |
| Pancreas | 60 seconds | Change Pre-Post | -0.39 | 0.27 | 0.001 |
| Pancreas | 90 seconds | Pre | 8.01 | 0.7 | |
| Pancreas | 90 seconds | Post | 7.59 | 0.6 | |
| Pancreas | 90 seconds | Change Pre-Post | -0.42 | 0.5 | 0.027 |
| Pancreas | End | Pre | 8.09 | 0.88 | |
| Pancreas | End | Post | 7.41 | 0.83 | |
| Pancreas | End | Change Pre-Post | -0.68 | 1.05 | 0.07 |

**Table 19:** Water 3 Biopulsar no Supplement group.

| Parameter | TimePoint | Time | Mean | SD | p-value (change within Group) |
|---|---|---|---|---|---|
| Spleen | 30 seconds | Pre | 6.85 | 1.17 | |
| Spleen | 30 seconds | Post | 6.73 | 0.7 | |
| Spleen | 30 seconds | Change Pre-Post | -0.12 | 0.66 | 0.585 |
| Spleen | 60 seconds | Pre | 6.8 | 1.2 | |
| Spleen | 60 seconds | Post | 6.32 | 1.39 | |
| Spleen | 60 seconds | Change Pre-Post | -0.48 | 1.37 | 0.296 |
| Spleen | 90 seconds | Pre | 6.86 | 1.25 | |
| Spleen | 90 seconds | Post | 6.58 | 0.96 | |
| Spleen | 90 seconds | Change Pre-Post | -0.29 | 0.42 | 0.059 |
| Spleen | End | Pre | 6.94 | 1.31 | |
| Spleen | End | Post | 6.66 | 0.85 | |
| Spleen | End | Change Pre-Post | -0.27 | 0.66 | 0.229 |
| Duodenum | 30 seconds | Pre | 7.67 | 0.32 | |
| Duodenum | 30 seconds | Post | 7.37 | 0.52 | |

| | | | | | |
|---|---|---|---|---|---|
| Duodenum | 30 seconds | Change Pre-Post | -0.3 | 0.57 | 0.129 |
| Duodenum | 60 seconds | Pre | 7.79 | 0.38 | |
| Duodenum | 60 seconds | Post | 7.09 | 1.24 | |
| Duodenum | 60 seconds | Change Pre-Post | -0.71 | 1.13 | 0.08 |
| Duodenum | 90 seconds | Pre | 7.91 | 0.65 | |
| Duodenum | 90 seconds | Post | 7.5 | 0.46 | |
| Duodenum | 90 seconds | Change Pre-Post | -0.41 | 0.64 | 0.07 |
| Duodenum | End | Pre | 8 | 0.75 | |
| Duodenum | End | Post | 6.66 | 2.23 | |
| Duodenum | End | Change Pre-Post | -1.34 | 2.63 | 0.141 |
| Small Intestine | 30 seconds | Pre | 6.97 | 2.14 | |
| Small Intestine | 30 seconds | Post | 7.07 | 0.64 | |
| Small Intestine | 30 seconds | Change Pre-Post | 0.11 | 1.74 | 0.849 |
| Small Intestine | 60 seconds | Pre | 7.05 | 1.55 | |
| Small Intestine | 60 seconds | Post | 7.05 | 0.75 | |
| Small Intestine | 60 seconds | Change Pre-Post | 0.01 | 1.27 | 0.99 |
| Small Intestine | 90 seconds | Pre | 7.45 | 0.61 | |
| Small Intestine | 90 seconds | Post | 7.13 | 0.58 | |
| Small Intestine | 90 seconds | Change Pre-Post | -0.32 | 0.39 | 0.031 |
| Small Intestine | End | Pre | 7.53 | 0.46 | |
| Small Intestine | End | Post | 7.18 | 0.75 | |
| Small Intestine | End | Change Pre-Post | -0.35 | 0.73 | 0.165 |

**Table 20:** Water 3 Biopulsar no Supplement group.

| Parameter | TimePoint | Time | Mean | SD | p-value (change within Group) |
|---|---|---|---|---|---|
| Descending Colon | 30 seconds | Pre | 7.18 | 0.9 | |
| Descending Colon | 30 seconds | Post | 6.94 | 0.48 | |
| Descending Colon | 30 seconds | Change Pre-Post | -0.24 | 0.78 | 0.353 |
| Descending Colon | 60 seconds | Pre | 7.03 | 0.9 | |
| Descending Colon | 60 seconds | Post | 6.84 | 0.51 | |
| Descending Colon | 60 seconds | Change Pre-Post | -0.19 | 0.74 | 0.429 |
| Descending Colon | 90 seconds | Pre | 7.03 | 0.91 | |
| Descending Colon | 90 seconds | Post | 6.61 | 0.69 | |
| Descending Colon | 90 seconds | Change Pre-Post | -0.41 | 0.61 | 0.06 |
| Descending Colon | End | Pre | 7.05 | 0.98 | |
| Descending Colon | End | Post | 6.66 | 0.84 | |
| Descending Colon | End | Change Pre-Post | -0.39 | 0.93 | 0.219 |
| Kidney | 30 seconds | Pre | 6.14 | 1.92 | |
| Kidney | 30 seconds | Post | 6.59 | 0.64 | |
| Kidney | 30 seconds | Change Pre-Post | 0.45 | 1.96 | 0.489 |
| Kidney | 60 seconds | Pre | 6.06 | 1.94 | |
| Kidney | 60 seconds | Post | 6.4 | 0.66 | |
| Kidney | 60 seconds | Change Pre-Post | 0.34 | 2.03 | 0.612 |
| Kidney | 90 seconds | Pre | 6.69 | 0.61 | |
| Kidney | 90 seconds | Post | 6.29 | 0.71 | |
| Kidney | 90 seconds | Change Pre-Post | -0.4 | 0.36 | 0.006 |
| Kidney | End | Pre | 6.75 | 0.59 | |
| Kidney | End | Post | 6.23 | 0.96 | |
| Kidney | End | Change Pre-Post | -0.52 | 0.88 | 0.092 |
| Bladder | 30 seconds | Pre | 7.46 | 0.53 | |
| Bladder | 30 seconds | Post | 7 | 0.48 | |
| Bladder | 30 seconds | Change Pre-Post | -0.47 | 0.42 | 0.006 |
| Bladder | 60 seconds | Pre | 7.3 | 0.49 | |
| Bladder | 60 seconds | Post | 6.87 | 0.51 | |
| Bladder | 60 seconds | Change Pre-Post | -0.43 | 0.36 | 0.005 |
| Bladder | 90 seconds | Pre | 7.08 | 0.66 | |
| Bladder | 90 seconds | Post | 6.57 | 0.52 | |
| Bladder | 90 seconds | Change Pre-Post | -0.52 | 0.66 | 0.036 |
| Bladder | End | Pre | 6.93 | 0.82 | |
| Bladder | End | Post | 6.53 | 0.67 | |
| Bladder | End | Change Pre-Post | -0.4 | 1 | 0.244 |

**Table 21:** Water 3 Biopulsar no Supplement group.

| Parameter | TimePoint | Time | Mean | SD | p-value (change within Group) |
|---|---|---|---|---|---|
| Adrenal Gland | 30 seconds | Pre | 5.9 | 2.26 | |
| Adrenal Gland | 30 seconds | Post | 6.23 | 1.97 | |

| Parameter | TimePoint | Time | Mean | SD | p-value (change within Group) |
|---|---|---|---|---|---|
| Adrenal Gland | 30 seconds | Pre | 5.9 | 2.26 | |
| Adrenal Gland | 30 seconds | Post | 6.23 | 1.97 | |
| Adrenal Gland | 30 seconds | Change Pre-Post | 0.32 | 1.36 | 0.47 |
| Adrenal Gland | 60 seconds | Pre | 6.29 | 2.01 | |
| Adrenal Gland | 60 seconds | Post | 5.96 | 1.89 | |
| Adrenal Gland | 60 seconds | Change Pre-Post | -0.33 | 0.53 | 0.084 |
| Adrenal Gland | 90 seconds | Pre | 6.45 | 2.09 | |
| Adrenal Gland | 90 seconds | Post | 5.77 | 1.86 | |
| Adrenal Gland | 90 seconds | Change Pre-Post | -0.69 | 0.61 | 0.006 |
| Adrenal Gland | End | Pre | 6.41 | 2.1 | |
| Adrenal Gland | End | Post | 5.9 | 1.89 | |
| Adrenal Gland | End | Change Pre-Post | -0.51 | 0.5 | 0.01 |
| Reproductive Organs | 30 seconds | Pre | 7.36 | 0.62 | |
| Reproductive Organs | 30 seconds | Post | 7 | 0.49 | |
| Reproductive Organs | 30 seconds | Change Pre-Post | -0.36 | 0.57 | 0.077 |
| Reproductive Organs | 60 seconds | Pre | 7.14 | 0.6 | |
| Reproductive Organs | 60 seconds | Post | 6.82 | 0.47 | |
| Reproductive Organs | 60 seconds | Change Pre-Post | -0.31 | 0.51 | 0.082 |
| Reproductive Organs | 90 seconds | Pre | 6.98 | 0.61 | |
| Reproductive Organs | 90 seconds | Post | 6.48 | 0.64 | |
| Reproductive Organs | 90 seconds | Change Pre-Post | -0.51 | 0.7 | 0.048 |
| Reproductive Organs | End | Pre | 6.9 | 0.76 | |
| Reproductive Organs | End | Post | 6.49 | 0.82 | |
| Reproductive Organs | End | Change Pre-Post | -0.41 | 1.1 | 0.271 |
| Hip | 30 seconds | Pre | 7.67 | 0.71 | |
| Hip | 30 seconds | Post | 7.3 | 0.62 | |
| Hip | 30 seconds | Change Pre-Post | -0.37 | 0.52 | 0.05 |
| Hip | 60 seconds | Pre | 7.49 | 0.71 | |
| Hip | 60 seconds | Post | 7.2 | 0.73 | |
| Hip | 60 seconds | Change Pre-Post | -0.29 | 0.42 | 0.056 |
| Hip | 90 seconds | Pre | 7.04 | 0.99 | |
| Hip | 90 seconds | Post | 6.67 | 1.05 | |
| Hip | 90 seconds | Change Pre-Post | -0.38 | 1 | 0.262 |
| Hip | End | Pre | 6.72 | 1.22 | |
| Hip | End | Post | 6.4 | 1.19 | |
| Hip | End | Change Pre-Post | -0.32 | 1.23 | 0.431 |

**Table 22:** Water 3 Biopulsar no Supplement group.

| Parameter | TimePoint | Time | Mean | SD | p-value (change within Group) |
|---|---|---|---|---|---|
| Feet | 30 seconds | Pre | 7.26 | 0.72 | |
| Feet | 30 seconds | Post | 6.77 | 0.99 | |
| Feet | 30 seconds | Change Pre-Post | -0.49 | 0.92 | 0.128 |
| Feet | 60 seconds | Pre | 7.04 | 0.67 | |
| Feet | 60 seconds | Post | 6.53 | 1.17 | |
| Feet | 60 seconds | Change Pre-Post | -0.51 | 0.97 | 0.13 |
| Feet | 90 seconds | Pre | 6.75 | 0.98 | |
| Feet | 90 seconds | Post | 6.11 | 1.45 | |
| Feet | 90 seconds | Change Pre-Post | -0.64 | 1.09 | 0.097 |
| Feet | End | Pre | 6.56 | 1.23 | |
| Feet | End | Post | 6.14 | 1.5 | |
| Feet | End | Change Pre-Post | -0.42 | 1.24 | 0.312 |
| Knee, Elbow, Leg, Lower Arm | 30 seconds | Pre | 6.93 | 1.29 | |
| Knee, Elbow, Leg, Lower Arm | 30 seconds | Post | 6.69 | 0.98 | |
| Knee, Elbow, Leg, Lower Arm | 30 seconds | Change Pre-Post | -0.23 | 0.76 | 0.36 |
| Knee, Elbow, Leg, Lower Arm | 60 seconds | Pre | 6.8 | 1.24 | |
| Knee, Elbow, Leg, Lower Arm | 60 seconds | Post | 6.53 | 1.06 | |
| Knee, Elbow, Leg, Lower Arm | 60 seconds | Change Pre-Post | -0.27 | 0.74 | 0.273 |
| Knee, Elbow, Leg, Lower Arm | 90 seconds | Pre | 6.75 | 1.27 | |
| Knee, Elbow, Leg, Lower Arm | 90 seconds | Post | 6.4 | 1.05 | |

| | | | | | |
|---|---|---|---|---|---|
| Knee, Elbow, Leg, Lower Arm | 90 seconds | Change Pre-Post | -0.35 | 0.72 | 0.166 |
| Knee, Elbow, Leg, Lower Arm | End | Pre | 6.81 | 1.42 | |
| Knee, Elbow, Leg, Lower Arm | End | Post | 6.21 | 1.18 | |
| Knee, Elbow, Leg, Lower Arm | End | Change Pre-Post | -0.6 | 0.76 | 0.034 |

**Table 23:** Water 3 Biopulsar no Supplement group.

| Parameter | Time-Point | Time | Mean | SD | p-value (change within Group) |
|---|---|---|---|---|---|
| Average Belly, Chest Area | 30 seconds | Pre | 6.29 | 0.62 | |
| Average Belly, Chest Area | 30 seconds | Post | 6.21 | 0.49 | |
| Average Belly, Chest Area | 30 seconds | Change Pre-Post | -0.08 | 0.86 | 0.772 |
| Average Belly, Chest Area | 60 seconds | Pre | 6.33 | 0.56 | |
| Average Belly, Chest Area | 60 seconds | Post | 6.03 | 0.76 | |
| Average Belly, Chest Area | 60 seconds | Change Pre-Post | -0.3 | 0.95 | 0.338 |
| Average Belly, Chest Area | 90 seconds | Pre | 6.46 | 0.54 | |
| Average Belly, Chest Area | 90 seconds | Post | 5.92 | 0.88 | |
| Average Belly, Chest Area | 90 seconds | Change Pre-Post | -0.54 | 0.61 | 0.021 |
| Average Belly, Chest Area | End | Pre | 6.38 | 0.59 | |
| Average Belly, Chest Area | End | Post | 5.89 | 0.75 | |
| Average Belly, Chest Area | End | Change Pre-Post | -0.49 | 0.74 | 0.064 |
| Average Lower Abdominal Area, Legs | 30 seconds | Pre | 7.37 | 0.43 | |
| Average Lower Abdominal Area, Legs | 30 seconds | Post | 7.03 | 0.46 | |
| Average Lower Abdominal Area, Legs | 30 seconds | Change Pre-Post | -0.35 | 0.6 | 0.099 |
| Average Lower Abdominal Area, Legs | 60 seconds | Pre | 7.25 | 0.42 | |
| Average Lower Abdominal Area, Legs | 60 seconds | Post | 6.91 | 0.45 | |
| Average Lower Abdominal Area, Legs | 60 seconds | Change Pre-Post | -0.35 | 0.51 | 0.059 |
| Average Lower Abdominal Area, Legs | 90 seconds | Pre | 7.13 | 0.73 | |
| Average Lower Abdominal Area, Legs | 90 seconds | Post | 6.8 | 0.57 | |
| Average Lower Abdominal Area, Legs | 90 seconds | Change Pre-Post | -0.34 | 0.73 | 0.178 |
| Average Lower Abdominal Area, Legs | End | Pre | 7.03 | 0.87 | |
| Average Lower Abdominal Area, Legs | End | Post | 6.55 | 0.59 | |
| Average Lower Abdominal Area, Legs | End | Change Pre-Post | -0.48 | 0.9 | 0.126 |

**Table 24:** Water 3 Biopulsar no Supplement group.

| Parameter | TimePoint | Time | p-value |
|---|---|---|---|
| Nose | 30 seconds | Pre | |
| Nose | 30 seconds | Post | |
| Nose | 30 seconds | Change Pre-Post | 0.006 |
| Nose | 60 seconds | Pre | |
| Nose | 60 seconds | Post | |
| Nose | 60 seconds | Change Pre-Post | 0.044 |
| Nose | 90 seconds | Pre | |
| Nose | 90 seconds | Post | |
| Nose | 90 seconds | Change Pre-Post | 0.423 |
| Nose | End | Pre | |
| Nose | End | Post | |
| Nose | End | Change Pre-Post | 0.821 |
| Thyroid | 30 seconds | Pre | |
| Thyroid | 30 seconds | Post | |
| Thyroid | 30 seconds | Change Pre-Post | 0.024 |
| Thyroid | 60 seconds | Pre | |
| Thyroid | 60 seconds | Post | |
| Thyroid | 60 seconds | Change Pre-Post | 0.328 |
| Thyroid | 90 seconds | Pre | |
| Thyroid | 90 seconds | Post | |
| Thyroid | 90 seconds | Change Pre-Post | 0.321 |
| Thyroid | End | Pre | |
| Thyroid | End | Post | |
| Thyroid | End | Change Pre-Post | 0.172 |
| Neck | 30 seconds | Pre | |
| Neck | 30 seconds | Post | |
| Neck | 30 seconds | Change Pre-Post | 0.727 |
| Neck | 60 seconds | Pre | |

| | | | |
|---|---|---|---|
| Neck | 60 seconds | Post | |
| Neck | 60 seconds | Change Pre-Post | 0.922 |
| Neck | 90 seconds | Pre | |
| Neck | 90 seconds | Post | |
| Neck | 90 seconds | Change Pre-Post | 0.095 |
| Neck | End | Pre | |
| Neck | End | Post | |
| Neck | End | Change Pre-Post | 0.41 |

**Table 25:** Water 3 Biopulsar Comparisons of Changes between Groups.

| Parameter | TimePoint | Time | p-value |
|---|---|---|---|
| Lung | 30 seconds | Pre | |
| Lung | 30 seconds | Post | |
| Lung | 30 seconds | Change Pre-Post | 0.434 |
| Lung | 60 seconds | Pre | |
| Lung | 60 seconds | Post | |
| Lung | 60 seconds | Change Pre-Post | 0.009 |
| Lung | 90 seconds | Pre | |
| Lung | 90 seconds | Post | |
| Lung | 90 seconds | Change Pre-Post | 0.034 |
| Lung | End | Pre | |
| Lung | End | Post | |
| Lung | End | Change Pre-Post | 0.018 |
| Thymus Gland | 30 seconds | Pre | |
| Thymus Gland | 30 seconds | Post | |
| Thymus Gland | 30 seconds | Change Pre-Post | 0.161 |
| Thymus Gland | 60 seconds | Pre | |
| Thymus Gland | 60 seconds | Post | |
| Thymus Gland | 60 seconds | Change Pre-Post | 0.188 |
| Thymus Gland | 90 seconds | Pre | |
| Thymus Gland | 90 seconds | Post | |
| Thymus Gland | 90 seconds | Change Pre-Post | 0.376 |
| Thymus Gland | End | Pre | |
| Thymus Gland | End | Post | |
| Thymus Gland | End | Change Pre-Post | 0.083 |
| Transverse Colon | 30 seconds | Pre | |
| Transverse Colon | 30 seconds | Post | |
| Transverse Colon | 30 seconds | Change Pre-Post | 0.066 |
| Transverse Colon | 60 seconds | Pre | |
| Transverse Colon | 60 seconds | Post | |
| Transverse Colon | 60 seconds | Change Pre-Post | 0.085 |
| Transverse Colon | 90 seconds | Pre | |
| Transverse Colon | 90 seconds | Post | |
| Transverse Colon | 90 seconds | Change Pre-Post | 0.513 |
| Transverse Colon | End | Pre | |
| Transverse Colon | End | Post | |
| Transverse Colon | End | Change Pre-Post | 0.822 |

**Table 26:** Water 3 Biopulsar Comparisons of Changes between Groups.

| Parameter | TimePoint | Time | p-value |
|---|---|---|---|
| Kidney | 30 seconds | Pre | |
| Kidney | 30 seconds | Post | |
| Kidney | 30 seconds | Change Pre-Post | 0.03 |
| Kidney | 60 seconds | Pre | |
| Kidney | 60 seconds | Post | |
| Kidney | 60 seconds | Change Pre-Post | 0.354 |
| Kidney | 90 seconds | Pre | |
| Kidney | 90 seconds | Post | |
| Kidney | 90 seconds | Change Pre-Post | 0.193 |
| Kidney | End | Pre | |
| Kidney | End | Post | |
| Kidney | End | Change Pre-Post | 0.597 |
| Ureter | 30 seconds | Pre | |
| Ureter | 30 seconds | Post | |
| Ureter | 30 seconds | Change Pre-Post | 0.057 |
| Ureter | 60 seconds | Pre | |
| Ureter | 60 seconds | Post | |
| Ureter | 60 seconds | Change Pre-Post | 0.165 |
| Ureter | 90 seconds | Pre | |
| Ureter | 90 seconds | Post | |
| Ureter | 90 seconds | Change Pre-Post | 0.492 |
| Ureter | End | Pre | |
| Ureter | End | Post | |
| Ureter | End | Change Pre-Post | 0.429 |
| Knee, Elbow, Leg, Lower Arm | 30 seconds | Pre | |
| Knee, Elbow, Leg, Lower Arm | 30 seconds | Post | |
| Knee, Elbow, Leg, Lower Arm | 30 seconds | Change Pre-Post | 0.248 |
| Knee, Elbow, Leg, Lower Arm | 60 seconds | Pre | |
| Knee, Elbow, Leg, Lower Arm | 60 seconds | Post | |
| Knee, Elbow, Leg, Lower Arm | 60 seconds | Change Pre-Post | 0.514 |
| Knee, Elbow, Leg, Lower Arm | 90 seconds | Pre | |
| Knee, Elbow, Leg, Lower Arm | 90 seconds | Post | |
| Knee, Elbow, Leg, Lower Arm | 90 seconds | Change Pre-Post | 0.181 |
| Knee, Elbow, Leg, Lower Arm | End | Pre | |
| Knee, Elbow, Leg, Lower Arm | End | Post | |
| Knee, Elbow, Leg, Lower Arm | End | Change Pre-Post | 0.055 |

**Table 27:** Water 3 Biopulsar Comparisons of Changes between Groups.

## Discussion

The BioPulsar showed significant changes in Nose, Hormone system, Immune system, Intestines, Joints, Urinary system, Stomach, and Lung. The Bio-Well™ showed significant changes in Brain, Spine,

Coronary Vascular system, Intestines, Urinary system, Hormone System, Immune, and Face. This means that both showed significant changes in Hormone system, Intestines, and Urinary system. Between both devices most important systems showed a significant change.

## Conclusion

This study reinforces the previous two studies findings of broad wellness effects with a documented trend toward improved body function. All of the test measures, except the Doppler Laser Perfusion Imager, had at least one change in significance. While the data demonstrates positive changes in organ function in every major body system including brain, heart, kidneys, liver, gallbladder, pancreas, stomach, intestinal track and bladder/pelvic area it should be noted that a larger sample is necessary to confirm any conclusions. A longer test period is also a logical next step to see how these effects either stabilize or change over time.

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## Statements and Declarations

### Ethical Considerations

Human Studies Research Ethics review was provided by NAOEP/IJHC approval 03-30-24-2.

### Consent to Participate

All participants signed written informed consent documents.

### Consent for Publication

N/A

### Declaration of Conflicting Interest

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### Data Availability

This data is not being shared in a repository due to concerns about confidentiality.

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