NanoVi® Technology: Overview of Research Results

The Impact of NanoVi®

Repair of Damaged Proteins

An extensive study of proteins damaged by heat, chemicals, or oxidation revealed that NanoVi had a substantial impact on the ability of proteins to resume their function after damage. Each test was run with a sham device, controls, and NanoVi. Three types of proteins were evaluated for treatment with NanoVi both *before* and *after* they were damaged with heat, oxidation, or chemicals. The findings are too extensive to present here, some of the results include:

Peroxidase showed significant improvement for both *before* and *after* for all types of damage. NanoVi *before* oxidation resulted in a 45% improvement while treatment *after* oxidation showed a 42% improvement in protein activity compared to the damaged control.

Alkaline phosphatase improved significantly with treatment both *before* (18%) and *after* (20%) it was damaged by oxidation. This protein recovered especially well with treatment *after* heat damage (32% more activity than the control) whereas treatment *before* heat damage did not have a significant impact.

Catalase activity improved by 18% when the NanoVi treatment was *before* heat damage while there was no significant impact on the restoration of catalase when proteins were treated *before* being damaged by either chemicals or oxidation. Treatment *after* chemicals or oxidation showed significant improvements.

- N.M. Emanuel Institute of Biochemical Physics, M.V. Lomonosov Moscow State University

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Reduced Lactate

Testing showed 17% less post-exertion lactate in the NanoVi treatment group than in the placebo group when athletes were treated with NanoVi prior to exertion.

- University of Vienna, Center for Sports Sciences

Improved Immune Response

Post-exertion markers for immune response were 10% to 17% higher with NanoVi than with a placebo device, with a single NanoVi treatment. This indicates a stronger immune response in the athletes using NanoVi.

- University of Vienna, Center for Sports Sciences

Stronger Antioxidant Defense

Total antioxidant activity (TAA), glutathione, urate and albumin were measured to assess antioxidant defense. All measures improved for each of the test subjects after a single NanoVi session. TAA increased by an average of 10%, glutathione by 13%, urate by 12%, and albumin by 6%.

- N.M. Emanuel Institute of Biochemical Physics, M.V. Lomonosov Moscow State University

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Faster DNA Repair

Double strand DNA breaks were reduced by an average of 25% when endurance athletes included a NanoVi session in their daily training regime.

- IMSB Olympic Training Center, Vienna Austria

An in vitro cell study showed marked improvement in double strand DNA breaks in cells damaged by irradiation when they were treated with the NanoVi device.

- Department of Radiation Oncology at the Medical University of Vienna

Influence on Probiotic Bacteria

Researchers concluded that NanoVi increases the proliferation efficacy and probiotic effect on selected strains of Lactococcus sp, Lactobacillus sp, and Kluyveromyces sp.

- Department of Biology at the University of Naples Federico II

Better Heart Rate Variability (HRV)

An adult population (with an average age of 61) showed an improvement in heart rate variability after a single NanoVi session. The reduction in their stress index was 37% and improvement in their parasympathetic activity (RMSSD) was 25%.

- Praxis, Dr. Susanne Neuy with VNS Analysis

Relative to their baseline, elite athletes showed an average of 15% improvement in heart rate variability measured by RMSSD values after a single session.

- Antonio Robustelli, strength trainer for elite athletes, consultant, recovery specialist

Alzheimer's and Mild Cognitive Impairment

This study showed significant benefit to people with Alzheimer's or Mild Cognitive Impairment when NanoVi was combined with an improved diet. During the 12-week study, metabolic and inflammatory markers improved significantly, as did assessments of quality of life and cognitive function.

- Published in the Journal of Clinical Trials "Cognitive Improvements in Patients with Mild Cognitive Impairment and Alzheimer's Disease through a Personalized Mito Food Plan Diet and Cell Repair Therapy"

Reduction in Markers for Oxidative Stress

Testing revealed a 14% average reduction in markers for oxidative stress when adults were measured *before* and *after* a NanoVi session.

- Testing with Revelar device conducted by PulseHealth staff

Verification of NanoVi® Technology

Extensive research confirmed that NanoVi creates supramolecular water aggregates, which are the coherent domains that result in ordered water (exclusion zones) on surfaces. Testing included: pH, electrical conductivity, UV fluorescence spectroscopy, circular dichroism spectroscopy, and optical microscopy of solid residues. This lab also verified that the wavelength Eng3 added to NanoVi in 2020 was substantially more effective at creating coherent domains.

- PROMETE Srl (a spin-off company of the National Institute for the Physics of Matter (INFM-CNR), Napoli, Italy

This study confirms that NanoVi changes physical and chemical properties of water to those of ordered or exclusion zone (EZ) water. These properties include redox potential, surface tension, dielectric constant, and pH. For each of the four areas investigated, multiple experiments were designed and ran on three different types of water.

- Published in the journal Water. "Physicochemical Effects of Humid Air Treated with Infrared Radiation on Aqueous Solutions", N.M. Emanuel Institute of Biochemical Physics, M.V. Lomonosov Moscow State University

The NanoVi device produces a specific signal that is naturally produced in the body to initiate cellular repair. The user inhales humidified air that transfers the signal from the device to the body. NanoVi technology was tested to verify that it produces the exact "bio-identical" signal required.

- Testing done at the University of Washington, Chemistry Department

The NanoVi device is used to accelerate rejuvenation in order to boost vitality and help maintain or regain health. The scientific foundation has been established and the approach endorsed as an important new development for health.

- Published in CellScience "From redox homeostasis to protein structure modulation and redox signaling therapy", Indiana University, School of Medicine

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