

Can LifeWave Technology Patches Enhance Heart Rate Variability?

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ABSTRACT - 3/6/06

The purpose of this study is to examine the effect of LifeWave energy patches on certain cardiovascular functions. LifeWave patches have been developed to generate and direct specific bioelectric signals into muscle cells of the body, increasing metabolism of fat molecules as a way of enhancing stamina and strength. It is hypothesized in this proposal that the use of the patches will also produce a more balanced state in the cardiovascular system, as measured by several parameters of heart rate variability (*HRV*).

The question is, how can activation of other biologic components be understood, as a consequence of Life Wave's frequency modulation of bioelectric energy? This technology, devised by David Schmidt, capitalizing on the discovery of modulating the natural biomagnetic field of the body, may have a considerable influence on the nature of health care in the future. The technology may impact the treatment of many of the chronic symptoms of stress thus augmenting or even eliminating the use of drugs and other more drastic interventions.

Haltiwanger's reports on the science of LifeWave technology, noted that the basis is rooted in the long-known understanding that the entire body is intrinsically electric in nature, transmitting signals of information throughout all cells and organs, and altering the biological processes through the modulation of frequencies. Via these bioelectric signals every cell, tissue and organ receives information to control its function. Throughout the course of scientific discovery, other researchers have also manipulated electromagnetic stimuli such as light and sound to alter brain waves thereby influencing brain performance (Budzynski, 1993, 1997; Siever, 1998). Microcurrent and cranial electrotherapy stimulation have been used for control of pain, anxiety, depression and insomnia (Kirsch, 2003). Through his technology, Schmidt has taken the critical step to access and control specific resonant frequencies in the instance of Life Wave patches, for energy and stamina, with more technological products to follow.

The intra group pre-post differences were greater in the E group as predicted, suggesting that the LifeWave Energy Patches improved cardiovascular functioning in most of the HRV autonomically mediated parameters. The patches seem to decrease the SNS (sympathetic nervous system tone) which is more dominant under stress. They also decrease the LF/HF ratio thus improving the balance of sympathetic/parasympathetic drive as seen in the HRV. Even though the large variance in the two groups did not permit statistical significance between groups the median measures produced large differences in the expected direction.