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## **Observational Study Demonstrates Effectiveness of medkey bioadaptive impulse therapy in Pain Treatment and Dysfunction Improvement**

A groundbreaking observational study conducted by Martin Luther University Halle-Wittenberg's Institute of Sports Science sheds new light on the efficacy of pain treatment and dysfunction improvement using the **medkey**, developed by Keytec GmbH, Germany.

The study, which involved 4,482 patients with various complaints, revealed promising outcomes in pain relief and enhanced muscle and joint function.

Led by a team of experienced healthcare professionals, including physicians, alternative practitioners, physiotherapists, and occupational therapists, the study aimed to evaluate the effectiveness of Medkey treatments across a diverse patient population.

### **Key findings from the study include:**

- **Significant Pain Reduction:** Over the course of therapy, patients experienced a remarkable 50% reduction in pain, with nearly one-third of participants achieving complete pain relief by the end of treatment.
- **Improvement in Muscular Dysfunctions:** Patients demonstrated positive changes in pre-post comparison, with an average improvement of 50.5% in muscular dysfunctions, as measured on a numerical rating scale from 1 to 100.
- **High Patient Satisfaction:** Patients reported high satisfaction with the treatment outcomes, with an average satisfaction score of 4.4 out of 5 on the Likert scale, indicating a high level of contentment with the results achieved.

The duration of therapy, spanning several applications, averaged nine minutes, demonstrating the efficiency and practicality of **medkey** treatments in clinical settings. Importantly, there were no significant differences observed between genders for any of the measurement parameters, highlighting the universal applicability of **medkey** in pain management and dysfunction improvement.

Commenting on the study findings, Prof. Dr. Kuno Hottenrott stated, "These results underscore the potential of **medkey** as a valuable tool in pain management and functional rehabilitation. The significant pain reduction and improvement in muscular dysfunctions observed in our study signify promising avenues for enhancing patient well-being and quality of life."

The findings of this observational study contribute to advancing the understanding of pain treatment and dysfunction management, offering new insights into the potential benefits of **medkey** in clinical practice.

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### **Prof. Dr. Kuno Hottenrott**

Head of Sports Medicine and Exercise Science | Director of ILUG (Institute for Performance Diagnostics and Health Promotion) | Former President DVS | Martin Luther University Halle-Wittenberg

Prof. Dr. Kuno Hottenrott has been teaching and researching at the Institute for Sports Science at Martin Luther University since 2003, is head of the Training Science & Sports Medicine department and director of the Institute for Performance Diagnostics and Health Promotion (ILUG). He has developed the Master's programme "Sport and Nutrition", which is unique in Germany and in great demand. Hottenrott has published more than 20 monographs and more than 200 scientific articles on topics ranging from performance and health sports, sports nutrition, performance diagnostics and autonomous and central nervous control of locomotor movements.

From 2013 to 2017, Hottenrott was President of the German Association for Sports Science (dvs), is a member of ECSS and ACSM. He is an expert on heart rate variability and has coached endurance athletes successfully worldwide.

### **About medkey bioadaptive Impulse therapy**

medkey bioadaptive Impulse therapy is a type of electrical stimulation pain relief therapy designed to be adaptive to the body's physiological responses. In this type of therapy, electrical impulses are delivered through electrodes placed on the skin to stimulate the underlying tissues and muscles. The initial impulse is transmitted into the body, and then the medkey measures the response of the tissue and adjusts the subsequent impulses accordingly in real time.

The idea behind this approach is to deliver stimulation that is tailored to the individual's specific needs and to achieve optimal therapeutic effects. This type of therapy is used in a variety of medical conditions, including acute and chronic pain, muscle weakness, and nerve injury, among others. By providing stimulation that is customised to the individual's body, this type of therapy can be more effective than traditional electrical stimulation techniques that use a one-size-fits-all approach.