

34th Global Conference on Sports Medicine

December 12-13, 2024

Rome, Italy

J Sports Med Doping Stud 2024, Volume 14

Leggero: Novel microloading concept and device for exercise

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The Leggero microloading device is a fitness innovation aimed at enhancing athletic performance by subtly increasing resistance during workouts. By adding fractional weight (as little as one ounce) to a runner's shoes, Leggero allows for an increased challenge on muscles without disrupting natural form or speed. This method, known as microloading, leverages low resistance over long durations to yield improvements in strength, endurance, and calories burned.

Leggero's design ensures that the weight is distributed evenly across the shoes, allowing athletes to maintain their regular pace and intensity while gradually increasing their workout challenge. The device can be attached using different methods, including shoelaces, tongue loops, or lace guides, depending on the user's preference. This versatility enables athletes to seamlessly integrate the device into their regular training routine without experiencing discomfort or interference.

The principle behind Leggero's microloading technique is grounded in the concept of "perfect practice," which suggests that maintaining ideal form under a slightly higher workload can lead to significant performance gains over time. The small, incremental increases in weight engage muscles more deeply, facilitating what is known as incremental adaptation, a process where the body gradually becomes stronger and more efficient.

Research has supported the effectiveness of microloading, showing that this form of resistance training can improve not only strength but also cardiovascular efficiency, helping athletes achieve more with every workout. By incorporating Leggero into their training, athletes can pursue long-term, sustainable performance improvements while continuing to enjoy their usual activities at their preferred intensity levels.