Levitation®

TRI-COMPARTMENT UNLOADER®

Many patients with knee osteoarthritis (OA) experience increased pain during activities where the knee is bent and bearing weight, such as climbing or descending stairs, rising from a seated position, walking uphill, squatting, and many sports. During these activities, the compressive forces in the knee can increase up to sevenfold. The Levitation® 2 Tri-Compartment Unloader is a unique solution for such patients. By absorbing bodyweight into a patented spring-loaded hinge during weight-bearing knee flexion, Levitation can reduce the total load placed on the knee joint by up to 64%.1 During leg extension, the spring-loaded hinge provides dynamic extension assistance (or “knee extension assist”) enhancing mobility, muscle strength and neuromuscular retraining.2

INDICATIONS
- Patellofemoral knee osteoarthritis
- Multi-compartment knee osteoarthritis
- Joint pain that increases with knee flexion while weight bearing

KEY BENEFITS
- Combined tibiofemoral and patellofemoral unloading1
- Powerful, customizable knee extension assist1,2
- Promotes increased activity and muscle strengthening1,2

KEY FEATURES
- Spring-loaded hinge
- Adjustable force-output
- Patented no-slip suspension system

COMPARISON: LEVITATION VS. UNI-COMPARTMENT OFFLOADER

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THE WORLD’S FIRST TRI-COMPARTMENT UNLOADER™

Levitation provides powerful, customizable knee extension assistance and flexion support to unload all three knee compartments simultaneously.

TRI-COMPARTMENT UNLOADING

Weight-loss and joint load reduction are considered best practice in the non-surgical management of knee OA. Levitation’s powerful, customizable knee extension assist provides immediate tri-compartment unloading by reducing the tensile forces placed on the knee joint by the quadriceps. This offers rapid pain reduction and enhanced strength, improving patients’ mobility so they can pursue an active lifestyle and rebuild their unassisted natural strength.

LEVITATION JOINT LOAD STUDY

A recent independent study investigated the effect of Levitation during a deep knee bend. It showed a joint load reduction of up to 64%. Braces 1 to 3 represent different force outputs of Levitation. All reductions were statistically significant (p<.05). Time is from the start to the end of a deep knee bend.

PREVALENCE OF MULTI-COMPARTMENT OA

Unlike conventional offloader knee braces, Levitation significantly reduces forces in all three compartments of the knee. Offloader braces can provide effective relief for patients with unicompartment OA affecting the tibiofemoral joint. However, less than 4% of knee OA cases are restricted to a single tibiofemoral compartment, while the vast majority of patients exhibit bi- or tri-compartmental disease.

References
3. Based on a retrospective systematic survey of Levitation® users with knee osteoarthritis.

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