

L360



Thigh System



Muscle Movement, Maximized

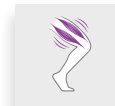
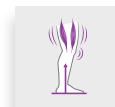
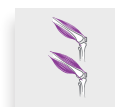
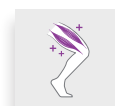
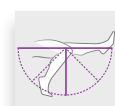
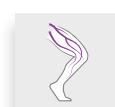
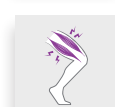
A new rehab therapy to improve patients' thigh strength and stability pre- and post-surgery

Reimagine Rehabilitation

Clinical research shows that, collectively, failure of voluntary muscle activation and atrophy may explain 85% of the loss of quadriceps strength after total knee arthroplasty.¹ Studies also suggest standard rehabilitation has not always been effective in preventing quadriceps atrophy.²

The L360 Thigh System uses functional electrical stimulation (FES) and neuromuscular electrical stimulation (NMES) to provide early post surgical quadriceps and hamstring strengthening and improve post surgical knee stability. It may also be effective in preventing disuse atrophy in adults experiencing muscle weakness.

L360 benefits

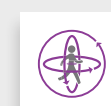
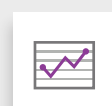
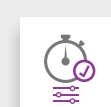
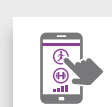


-  Strengthen the quadriceps and hamstring muscles
-  Improve knee stability and gait
-  Prevent or retard disuse atrophy
-  Facilitate muscle reeducation
-  Maintain or increase joint range of motion
-  Increase local blood flow
-  Relax muscle spasms



The L360 Thigh System has two components:

- A lightweight cuff positioned on the thigh, either on the quadriceps or hamstrings, to facilitate knee extension or flexion
- A pulse generator that delivers precise stimulation through the thigh cuff to the nerves and muscle(s) and has a user interface, including visual, audio, and tactile feedback

Key Features

-  **3D Motion Detection:**
The device deploys stimulation in 1/100 of a second.
-  **Outcome Measures:**
Providers can track and document patient progress.
-  **Fast, Intuitive Set-Up:**
Quick set-up maximizes productivity in each therapy session.
-  **User App:**
Users can control the device, set goals, and monitor activity.
-  **Electrical Stimulation Modalities:**
Targeted stimulation is available in three therapy modes: training mode, cycle training, and gait mode.
-  **Elevated Therapy:**
The clinician can impact the force efficiency and timing of the muscle contraction by adjusting stimulation.

The L360 Thigh System is available by prescription only.

To learn more or find a rep:

- Visit [BionessRehab.com](https://www.BionessRehab.com)
- Email BionessRehab@Bioventus.com
- Call 855-902-5252

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References: 1. Mizner RL, Petterson SC, Stevens JE, Vandenborne K, Snyder-Mackler L. Early quadriceps strength loss after total knee arthroplasty. The contributions of muscle atrophy and failure of voluntary muscle activation. *J Bone Joint Surg Am.* 2005;87(5):1047-53. doi:10.2106/JBJS.D.01992 2. Thomas AC, Wojtys EM, Brandon C, Palmieri-Smith RM. Muscle atrophy contributes to quadriceps weakness after anterior cruciate ligament reconstruction. *J Sci Med Sport.* 2016;19(1):7-11. doi:10.1016/j.jsams.2014.12.009

Indication for Use: The L360 Thigh System is intended to assist knee flexion or extension in adult individuals with muscle weakness related to upper motor neuron disease/injury (e.g., stroke, damage to pathways to the spinal cord). The L360 Thigh System electrically stimulates muscles in the affected leg to provide knee flexion or extension; thus, it also may improve the individual's gait.

The L360 Thigh System may also facilitate muscle re-education, prevent/retard disuse atrophy, maintain or increase joint range of motion, increase local blood flow, provide early post-surgical quadriceps and hamstring strengthening, improve post-surgical knee stability secondary to quadriceps and hamstring strengthening, and relax muscle spasms.

L360 Thigh System is contraindicated in patients with a demand-type cardiac pacemaker, defibrillator or any electrical implant. Do not use the system on a leg where metallic implant is directly underneath the electrodes, a cancerous lesion is present or suspected, or on a leg with regional disorder (e.g., fracture or dislocation) which could be adversely affected by motion from the stimulation. Use caution in patients with diagnosed or suspected cardiac problems or epilepsy.

Full prescribing information can be found in product labeling or at <https://bionessrehab.com/l360/safety-information>.

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