

Loss of quadriceps strength may exceed 60% post knee surgery.

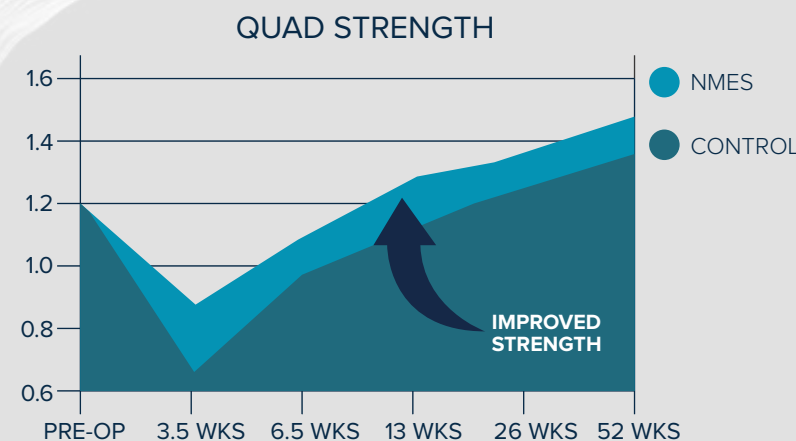
\$2,700
AVERAGE COST TO REHAB
MUSCLE ATROPHY

QUADRICEPS ATROPHY

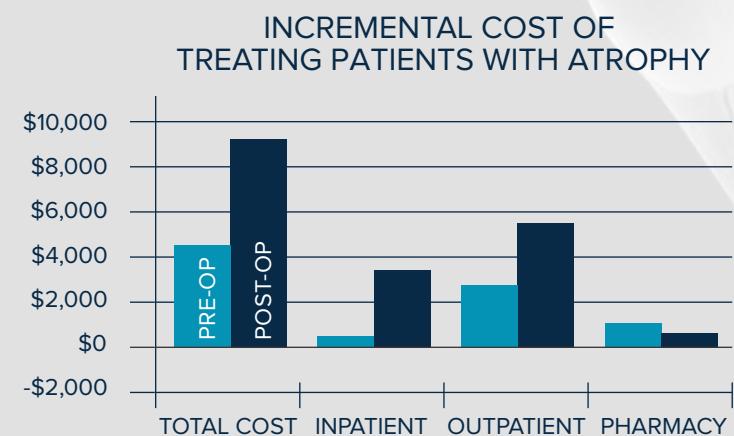
Quadriceps atrophy represents a major hurdle to post-surgical knee rehabilitation. Studies have shown that patients may lose over 60% of their quadriceps strength following knee surgery. Physical therapy programs alone are not always successful in restoring critical muscle activation and strength.^{1,2}

COST TO TREAT MUSCLE ATROPHY

Patients with significant muscle atrophy cost on average \$2700 or more to rehabilitate. Muscle weakness can last for up to two years, greatly impacting a patient's activity level.³



Stevens-Lapsley et al. (2012). Physical Therapy. 92(2): 210-226.



Chen, et al. (2013). Journal of Pain Research. 2013;6 595-603.

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ORTHOPEDICS

References:

1. Stevens-Lapsley et al. (2012). Physical Therapy. 92(2):210-226. 2. Risberg et al. (1999). J. Orthop. 3. Chen, et al. (2013). Journal of Pain research. 2013;6 595-60 3. Association between muscle atrophy/weakness and health care costs and utilization among patients receiving total knee replacement surgery: a retrospective cohort study.

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CY-0065-006 Rev. A

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Introducing



CYMOTION™ TECHNOLOGY

Our patented CyMotion™ Technology uses a closed-loop feedback system to constantly monitor and adjust the power delivered based on the patient's physiology and dynamic bioimpedance. The result is that e-vive™ with CyMotion™ Technology delivers targeted muscle activation more comfortably.

MUSCLE ACTIVATION THERAPY AND PATIENT ENGAGEMENT

An app-controlled and data-driven device, e-vive™ is designed to empower at-home pre-hab to rehab muscle strengthening for total knee replacement patients. It uses advanced neuromuscular electrical stimulation (NMES) to help patients strengthen their muscles, conforming to the comfort level of the patient to encourage them to use NMES as prescribed.

e-vive™ is the ONLY muscle activation therapy and patient engagement solution.



The **e-vive™** system consists of these best-in-class components:



The e-vive™ App

The e-vive™ app gives patients complete control over their NMES therapy for simplified operation on virtually any smartphone. Key data points are collected and sent to the cloud where providers can track patients' rehabilitation and engage with them remotely.



INTUITIVE APP INTERFACE



STIMULATION INTENSITY RANGE OF MOTION PROGRESS TRACKER

The CyMotion™ NMES Controller

The e-vive™ controller uses our proprietary CyMotion™ Technology to monitor and control the power delivered to the muscle for maximum comfort and effectiveness.



The Conductive Garment

The conductive garment with built in sensor technology, transmits critical range of motion data and steps, while precisely positioning the electrodes in place on the quadriceps.



The Post-Op Brace (Optional)

Post-operative bracing is often recommended after ligament reconstruction, in the interest of controlling range of motion and protecting the graft as it heals.

EMPOWERING PATIENTS AND PROVIDERS through tele-rehabilitation and quality care

The e-vive™ system has been optimized to help clinicians deliver more predictable outcomes. Key data points such as range of motion, activity level, pain level and more are collected and wirelessly sent to our provider portal. Surgeons and physical therapists have real-time access to their patients' information so they can monitor and motivate patients between visits.

CyMedica™ is focused on delivering advanced muscle activation solutions for tele-rehabilitation because more engaged patients means faster recovery times, lower chances of readmission, and more predictable outcomes.



PATIENT DATA IS DELIVERED TO THE CLOUD-BASED PORTAL

That's true quality-based care. And that's our mission here at CyMedica.™