

e·vive™
with CyMotion® Technology

A new approach
to engaging patients
in total knee rehab



CyMedica
ORTHOPEDICS®

Addressing the Knee Osteoarthritis Journey

The CyMedica muscle activation and patient engagement solutions are designed to support the complete care path for knee osteoarthritis, from early onset and diagnosis to surgical interventions and post-operative rehabilitation.

The Clinical Challenges of Muscle Weakness

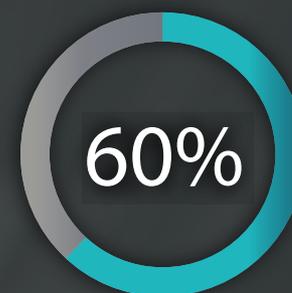
Muscle weakness is considered one of the most prevalent underlying clinical conditions associated with knee osteoarthritis and the rehabilitation challenges facing patients recovering from knee procedures. Studies have shown:

- **Patients can lose over 60% of their quadriceps strength** after knee surgery, and clinic physical therapy programs alone may not always be successful in restoring critical muscle activation strength.¹
- In patients with pre-operative knee osteoarthritis, upper leg muscle strength is reported to be approximately **20–40% lower** compared with healthy age-matched controls.² Muscle weakness in knee OA is strongly related to the patient-reported outcomes pain, activity limitations and falls, and has been linked to symptomatic progression of the disease.

Patient Engagement from Home

CyMedica partners with healthcare providers to engage patients in strengthening their muscles from home to minimize pre- and post-surgical atrophy.

- Supporting research has shown that consistent NMES therapy and patient engagement post- knee surgery may help patients attain and exceed their preoperative activity levels. The use of NMES in addition to progressive strengthening exercises has shown promising results and should be provided to attenuate the early loss of quadriceps strength after TKA.³



Studies show that post-TKA patients can lose over 60% of quadriceps strength.

20% to 40%
LOWER

Research indicates that patients with OA can experience 20-40% loss of quadriceps strength.

The Journey Of Knee Pain To Total Knee Replacement



Introducing e·vive™

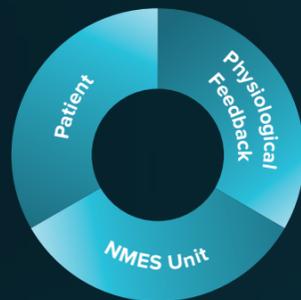
with CyMotion™ Technology

e·vive™ is the **ONLY** muscle activation therapy and patient engagement solution for knee conditions.

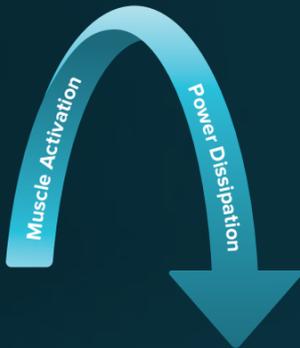
An app-controlled and data-driven device, e·vive™ is designed to empower at-home pre-hab to rehab muscle strengthening for total knee replacement patients. It uses advanced neuromuscular electrical stimulation (NMES) to help patients strengthen their muscles, conforming to the comfort level of the patient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

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 bioimpedence. The result is delivery of a more comfortable, targeted muscle activation.



Closed-loop feedback



Power dissipation



The e·vive system consists of three components:



The e·vive™ App

gives patients complete control over their NMES therapy for simplified operation on virtually any smart device. Key data points are collected and sent to the cloud where providers can track patients' rehabilitation progress and engage with them remotely.

INTUITIVE APP INTERFACE



STIMULATION INTENSITY



RANGE OF MOTION



PROGRESS TRACKER



The CyMotion™ NMES Controller

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

The e·vive™ Conductive Garment

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



Empowering patients to find their **strength**

The e-vive™ system has been optimized to help clinicians encourage patients to be proactive in their rehabilitation. 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 Orthopedics® is focused on delivering advanced muscle activation solutions for at-home therapy— because more engaged patients means faster recover times, lower chances of readmission, and improved clinical outcomes.

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

PATIENT DATA IS DELIVERED TO THE
CLOUD-BASED PROVIDER PORTAL



Experience the new standard of care
for muscle strengthening:

e·vive™
with CyMotion™ Technology



 **CyMedica**
ORTHOPEDICS®

To learn more, visit
www.cymedicaortho.com
or call **844-296-2014**

1. Mizner RL, et al. 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):1047-1053 2. Alnahdi AH, Zeni JA, Snyder-Mackler L. Muscle impairments in patients with knee osteoarthritis. Sports Health. 2012;4(4):284-92. 3. Mont, MA., et.al. Journal of Knee Surg. 2016 Apr;29(3): 201-17

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