

MIDWEST  
ORTHOPAEDICS  
*at* RUSH

**CyMedica e-vive Information and Instructions**  
**Management of Osteoarthritis**

*Dear Valued Patient,*

As part of your treatment plan, Dr. Verma has prescribed and recommended the use of the CyMedica Orthopedics e-vive system. The e-vive system is designed to deliver neuromuscular electrical stimulation (NMES) for muscle activation, which aids recovery by strengthening muscles and supporting joint health and function. The e-vive system also communicates important data regarding your personalized progress back to your healthcare team.

**Neuromuscular Electrical Stimulation Treatment Rationale**

*Muscle Atrophy:*

Quadriceps atrophy – or the weakening of your thigh muscles – is a common occurrence associated with many orthopedic conditions like osteoarthritis. The resulting loss of muscle tone and mass may potentially decrease your strength, mobility and hinder normal function of the surrounding joints.

*NMES Treatment:*

One of the latest technologies available to help you reduce the effects of quadriceps atrophy is called Neuromuscular Electrical Stimulation or NMES. This treatment when used regularly with other prescribed care plans can help restore strength, function and may reduce your knee pain.

## Protocol and Operating Instructions

1. The e-vive device is operated through an application on your smart device, which was set up at your initial visit to the DME Store. To access the device for stimulation, locate the CyMedica e-vive application.
2. To achieve maximum benefit, it is recommended to perform the following treatment regimen:
  - a. **Months 0-3:**
    - i. **2 times per day for 20-minute stimulation sessions.**
    - ii. **Perform 2 days of treatment then take one day of rest and then repeat cycle. One session should be “active” meaning patients should walk and perform normal activity while performing session.**
  - b. **Months 4-12:**
    - i. **Depending on progress, use device at least 2 times per week for 20-minute stimulation sessions**
3. Use the “**STRENGTH PROGRAM**” when selecting treatment type (program).
4. **Bluetooth** must be enabled on your smart device in order to connect the application with the garment.
5. Make sure the e-vive controller is charged before use. It will take approximately 4 hours to fully charge.
6. Patients are encouraged to apply a strong, but comfortable intensity level for the knee and thigh areas to create a visible contraction of the muscles while not causing discomfort or pain. The intensity levels for the knee and thigh areas can be different. The intensity levels will vary by treatment and should be set by “feel”.
7. Following a stimulation session, be sure to complete the **Range of Motion Test each day** and complete the surveys as you are prompted.

## Important Care Information

- For comfort and effectiveness, **electrodes should be replaced when they are no longer tacky or uncomfortable.** An additional electrode set is provided in the e-vive device box. Contact CyMedica customer service directly to order additional electrodes at 844.296.2014.
- Electrodes must be positioned directly onto the skin. Remove the electrode protective covers before use. The protective covers should be placed back onto the electrodes while not in use.
- Do not shave your leg on the day of stimulation sessions – shaving prior to stimulation may cause discomfort.
- **Cleaning:** DO NOT machine wash or submerge the device in water. If cleaning is needed, wipe the elastic garment down with a damp cloth. Anti-bacterial disinfectant spray or a mild detergent may be used if needed.
- If you develop any type of skin reaction after using this device, you should immediately STOP the stimulation, place a towel in between your skin and the garment, and contact the DME Store.
- Please DO NOT over-tighten the straps of the garment. You should NEVER have a ‘numbness and tingling feeling’ in your foot or extremity with the garment on. If you do, the garment must be loosened immediately. If these symptoms continue, contact your physician’s office via e-mail or phone.