

FACT SHEET & OVERVIEW

About Restorative Therapies

Restorative Therapies (RTI) is the industry leader in integrated functional electrical stimulation (iFES)[™], successfully working with more than 100,000 patients, in more than 1,000 clinics, and 30 countries over the past 15 years. RTI is the leading innovator, manufacturer, marketer, and distributor of FDA cleared physician-prescribed class II medical devices that are the standard of care in rehabilitation therapy for many neurological conditions such as spinal cord injury, stroke, multiple sclerosis, cerebral palsy, transverse myelitis, or brain injury. RTI products provide customized responsive therapeutic programs for ongoing rehabilitation and overall health benefits.

RTI products target arm, core and leg muscle groups with 6 to 12 integrated and coordinated channels of stimulation intended to improve weakness by re-building or conditioning muscles to regain or maintain functionality and reduce common secondary complications like pressure sores, urinary tract infections, or pneumonia. *

Our products have been cleared by the FDA to:

- Reduce muscle atrophy
- Reduce muscle spasms
- Improve local circulation
- Facilitate muscle re-education
- Maintain or increase range of motion

What is Integrated Functional Electrical Stimulation (iFES[™])

Functional electrical stimulation (FES) is a well-established modality that's been widely used for rehabilitation for over 50 years. FES uses safe, low-current electrical pulses to activate paralyzed or deconditioned muscles for functional movement and is a proven therapy with a wide range of therapeutic indications.

Restorative Therapies systems combine therapeutic modalities to create complex integrated functional electrical stimulation (iFES). iFES incorporates functional electrical stimulation (FES) integrated with task specific or motor assistance/resistance activities to optimize therapeutic goals. Our proprietary software provides real-time biofeedback, data tracking and sophisticated control algorithms that are designed for a wide range of neurological impairments.

Research has shown that this combination of modalities augments volitional contractions in weak or paralyzed muscle. The activity provided allows someone with a neurological impairment to begin progressive resistive or task specific therapy, interventions shown to provide comprehensive therapeutic outcomes including preventions of secondary health conditions, motor function, and even gait improvements.

Why does iFES incorporate a motor?

An integral part of the iFES system is the motor, which provides assistance or resistance to enhance the function of weak or paralyzed muscles. Our motorized systems allow the user to perform massed practice repetitions to achieve high intensity activity. The motor facilitates arm or leg movement in a circular motion to recreate physical work in conjunction with the FES-evoked muscle contractions. The arm or leg movements are sequenced with the muscle contraction at the precise time and degree of natural rotation.

What is Activity Based Therapy (ABT)?

Activity based therapy (ABT) is a patterned activation of paralyzed or weakened muscles to recover a specific motor task. The primary goal of ABT is the recovery of motor and sensory function below the level of injury, which can be achieved by repetitive activation of an impaired neuromuscular system. The repetitive motion promotes neuroplasticity and muscle re-education. A typical 12 channel 30-minute Restorative Therapies iFES therapy session will activate muscles thousands of times.

RT300 For Neurological Rehabilitation: Arm, Leg & Core Muscles with up to 12 Stimulation Channels:

RT300 is the Restorative Therapies flagship product line that includes multiple versions: Arm + Leg + Core; Leg + Core; Arm + Core; and Pediatric Leg + Core. It's never too late to get started with an RT300 iFES program. You can benefit from iFES at the onset of your diagnosis or after your disease or injury has progressed. RTI massed practice RT300 technology stands alone with features and benefits such as:

• Leg, Arm & Core stimulation	• Adjustable stimulation	• Adjustable calf support, pedal & crank arm
• Up to 12 stimulation channels	• Off-device stimulation	• Fatigue detection & management
• Spasm detection & management	• Auto progression	• Interval, gait, & isokinetic programs
• Adjustable platform	• Software updates	• Bilateral and unilateral stimulation
• Variable speed 5-55 RPM	• Pediatrics ages 4+	• On screen avatar asymmetric cuing
• Remote therapy programming	• 10-year service life	• Auto warm-up, active & cool-down modes

Xcite For Activities of Daily Living (ADL's) with Task-Specific, Strengthening & Gross Motor Activities:

Xcite™ offers a comprehensive library of activities (ADL's) to assist patients in performing task specific, strengthening and gross motor activities. Xcite is intended to be a stand-alone therapy modality or an adjunct complimentary therapy to RT300 and our other massed practice therapy systems. Xcite produces coordinated iFES-evoked movement patterns. The repetitive practice of task-specific, functional activities has long been a cornerstone of physical and occupational therapy rehabilitation for neurological impairments or muscle weakness. Xcite plays a key role enhancing the impact of traditional therapeutic activities that support muscle re-education.

Supine RT300 For Early Mobility in Critical Care and Intensive Care Settings:

Supine is an upper and lower extremity therapy iFES device intended for immobilized patients in a critical care or intensive care setting who could benefit from early mobility therapy practices. The RT300 Supine provides leg and arm activity from a bed or bedside chair and is ideal for use in the ICU or acute rehabilitation environments for early mobility and can be used with or without iFES. Advantages of iFES with the RT300 Supine include:

- Use with weak, sedated, or paretic patients to provide arm and leg therapy
- Option to stimulate up to 12 muscle groups in lower and upper extremities
- All stimulation is appropriately coordinated during the leg or arm motion based on muscle selection

Restorative Therapies is Your Advocate for Life

The RTI treatment approach provides products and services across the continuum of care, and site of care, from the critical care unit to inpatient and outpatient therapy and then in-home care. As an **Advocate for Life** for our patients and clinicians, Restorative Therapies is dedicated to helping patients and clinicians achieve access to care and have the best opportunity to live an active healthy life.

RTI is here throughout each journey to help select the right solution and we offer the following services:

- Reimbursement Processing
- On-site Installation & Training
- Funding Guidance
- Therapy Progress Monitoring
- Clinical & Technical Support
- Software Updates
- Clinical Training Center
- Continuing Education

For more information, please call Restorative Therapies marketing at: 1-800-609-9166, ext 322.

*Published peer-reviewed data available upon request.