**NEWEST Rehab Technology at Gaylord**

**Ekso™**

Gaylord is the only facility in Connecticut to have the Ekso™ bionic exoskeleton. The Ekso™ is a portable, adjustable bionic suit designed to help patients with lower-extremity paralysis or weakness, resulting from a spinal cord injury, stroke, or other neurologic condition, to stand and walk. The patient provides balance and proper body positioning while the Ekso™ allows the user to walk with a reciprocal gait. A physical therapist with special training uses the control pad to program the desired walking parameters, such as gait length and speed.

**AlterG® Anti-Gravity Treadmill®**

AlterG Anti-Gravity Treadmills use NASA-developed Differential Air Pressure (DAP) technology that enables unprecedented unweighting therapy and training capabilities. This unique unweighting with air pressure comfortably lifts the user and allows him/her to walk or run at a fraction of their body weight. Gaylord has AlterG treadmills in all outpatient locations - Cheshire, North Haven and Wallingford.

**ZeroG® Gait & Balance System®**

The ZeroG Gait and Balance System protects patients from falls while providing dynamic body-weight support as patients practice walking, balance tasks, sit-to-stand maneuvers and even stairs. Because ZeroG is mounted to an overhead track, there are no barriers between the patient and therapist. With the only ZeroG in Connecticut, inpatients can begin rehabilitation as early as possible in a safe, controlled environment.

**Bioness Integrated Therapy System - BITS®**

BITS is a multi-disciplinary therapy solution designed to motivate patients and improve clinician efficiency. With 24 unique programs and four standardized assessments, BITS’ interactive touchscreen and diverse program options challenge patients through the use of visual motor activities, visual and auditory processing, cognitive skills and endurance training.

**Apple iPad®**

The Apple iPad® is used to provide assistance with communication and organization. Patients are taught to use applications that help with cognitive and functional capabilities. With this technology patients can Skype™ and keep in touch with family and friends. Our staff helps patients to use the best apps to maximize their time and effort.
**Functional Electrical Stimulation (FES)**

Functional Electrical Stimulation (FES) is a rehabilitation technique that uses pulses of electrical current to stimulate peripheral nerves evoking muscle contractions and patterned muscle activity. Gaylord uses the RT300 FES cycle, which can create patterned movement in the arms, legs and trunk.

**Walk Aide®**

The Walk Aide helps to prevent “foot drop,” which is the inability to pick up the foot while walking. After a neurological event, it is common to have weakness in the leg, foot and ankle, which can result in foot drop. The small, self-contained device uses a switch to trigger electrical stimulation of the muscles that lift the foot and doesn’t require orthopedic or special shoes while in use.

**Bioness L300 Plus®**

The Bioness LS-300 is a computer based, wireless, sensor driven electronic stimulation unit used to control ankle and knee motion and stability during walking. This technology is proven to increase stability, speed and confidence during walking, while decreasing the number of falls.

**G-Walk®**

The G-Walk is a wireless system for motion functional analysis. A special sensor enables clinical tests such as the “Timed Up and Go” and the “6 Minutes Walking Test” to supply relevant parameters related to walking, running and jumping, helping physicians and therapists assess a patient’s condition and determine the efficacy of treatments and/or rehabilitation therapies.

**Saebo MyoTrac Infiniti®**

The Saebo MyoTrac Infiniti® is a comprehensive, portable biofeedback electrical stimulation system assisting with foot drop. The device delivers stimulation to the targeted muscles based on the client’s very own EMG signal. This combination of biofeedback and stimulation provides a unique opportunity for people to maximize their rehabilitation and recovery.

For more information on programs and additional technology at Gaylord, visit [www.gaylord.org](http://www.gaylord.org).