

Solutions to Everyday Living for Persons with Disabilities

Marianjoy Assistive Rehabilitation Technology Institute (MARTI)

The Marianjoy Assistive Rehabilitation Technology Institute (MARTI) supports the art and science of rehabilitation medicine by offering solutions to everyday problems of daily living encountered by individuals with disabilities. The Institute consists of seven distinct centers that apply the benefits of advancements in technology to maximize functional independence and expand educational, vocational, recreational, and communicative opportunities.

In addition, computerized advancements in rehabilitation technology allows Marianjoy clinicians and researchers to collect and analyze data for evidence-based research, and apply what is learned to improve patient outcomes. Findings are shared with clinicians nationwide at educational and scientific conferences.

The Seven Centers of the Marianjoy Assistive Rehabilitation Technology Institute:

The Assistive Communication and Daily Living Center addresses augmentative and alternative communication services for individuals with speech impairments. Equipment for voice production or voice enhancement is used for more effective communication. The Daily Living Center also includes environmental controls to help individuals with limited mobility perform activities such as turning lights on and off, using small appliances, and opening doors.

The Balance and Vestibular Center provides a specialized form of physical therapy designed to improve vestibular function and postural controls for individuals with balance disorders in order to reduce falls and decrease dizziness.

The Driver Rehabilitation Center is one of the most highly-regarded driving programs in the Midwest. The program provides driver evaluation and education to help individuals with disabilities learn or re-learn how to drive and gain independence. Adaptive vehicles are configured to suit individuals with varying disabilities. The center also offers a low-vision program for teens and young adults.

The Gait Analysis and Mobility Center specializes in walking and gait analysis for patients with stroke, spinal cord injury or other neuromuscular disorders. *Marianjoy's Motion Analysis Laboratory* uses movement assessment to provide clinicians with a clearer understanding of disease mechanisms and the effectiveness of new treatment approaches to improve rehabilitation outcomes.

The Prosthetic and Orthotic Center team of physicians, nurses, and clinicians evaluate, treat, and support individuals with amputation and/or orthotic needs. The team works with certified prosthetists and orthotists to restore mobility and offer solutions for a more active lifestyle.

The Swallowing and Voice Center conducts a thorough diagnostic evaluations and treatment of swallowing difficulties using advanced equipment and technology. After assessing a patient's condition, therapists develop a specialized treatment plan to improve swallowing and voice production.

The Wheelchair and Positioning Center uses state-of-the-art equipment and assessment technologies, including pediatric and adult *SmartWheel* computerized wheelchair propulsion measurements and pressure mapping. Our experienced clinicians/certified Assistive Technology Professionals in this well established center use these advanced technologies to make recommendations for the most functional and comfortable mobility devices and components, and for research that focuses on preventing repetitive stress injuries and other medical complications, such as skin breakdown and postural deformity associated with wheelchair use.



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- **Assistive Communication and Daily Living Center**
- **Balance and Vestibular Center**
- **Driver Rehabilitation Center**
- **Gait Analysis and Mobility Center**
- **Prosthetic and Orthotic Center**
- **Swallowing and Voice Center**
- **Wheelchair and Positioning Center**



**To make an appointment or
for more information, call**

630-909-7150

or visit Marianjoy.org