

# Interactive Rehabilitation & Exercise System (IREX®)

IREX® is a virtual reality therapy system that uses immersive video gesture control technology to place patients into virtual sport or gaming environments where they are guided through clinician-prescribed therapeutic exercise regimes.

## Individuals who may benefit from the IREX® include those with:

- Neurological impairments
- Cardiovascular impairments
- Vestibular/balance issues
- Orthopedic impairments
- Chronic pain

## How does the IREX® work?

Patients are immersed in a full-body virtual environment where they can interact with on-screen images and objects, designed to enhance the sense of “presence” for the patient. Real-time auditory and visual feedback further stimulate the patient, resulting in improved participation and focus in rehabilitation exercises.

## What are the advantages to using the IREX®?

The system can provide clinicians with the ability to specify and measure the frequency of successful exercises and number of repetitions completed, resulting in the following potential benefits for the patient:

- Improved executive functioning
- Improved cortical reorganization
- Improved balance and trunk control
- Improved mobility



MARIANJOY

Assistive  
Rehabilitation  
Technology Institute

The **Marianjoy Assistive Rehabilitation Technology Institute** offers solutions to everyday problems of daily living encountered by individuals with disabilities. The Institute consists of seven distinct centers which apply advancements in technology to benefit individuals with disabilities through maximizing functional independence, as well as expanding educational, vocational, recreational, and communicative opportunities.

- **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**

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