

ICARE:

Intelligently Controlled

Assistive Rehabilitation Elliptical



“Our goal with developing ICARE was to create an affordable training device that individuals with physical disabilities and chronic conditions could use to improve their walking ability and cardiovascular fitness, not only while they were in the hospital, but also as they returned to their communities and homes.”

— Dr. Judith Burnfield, PT, PhD

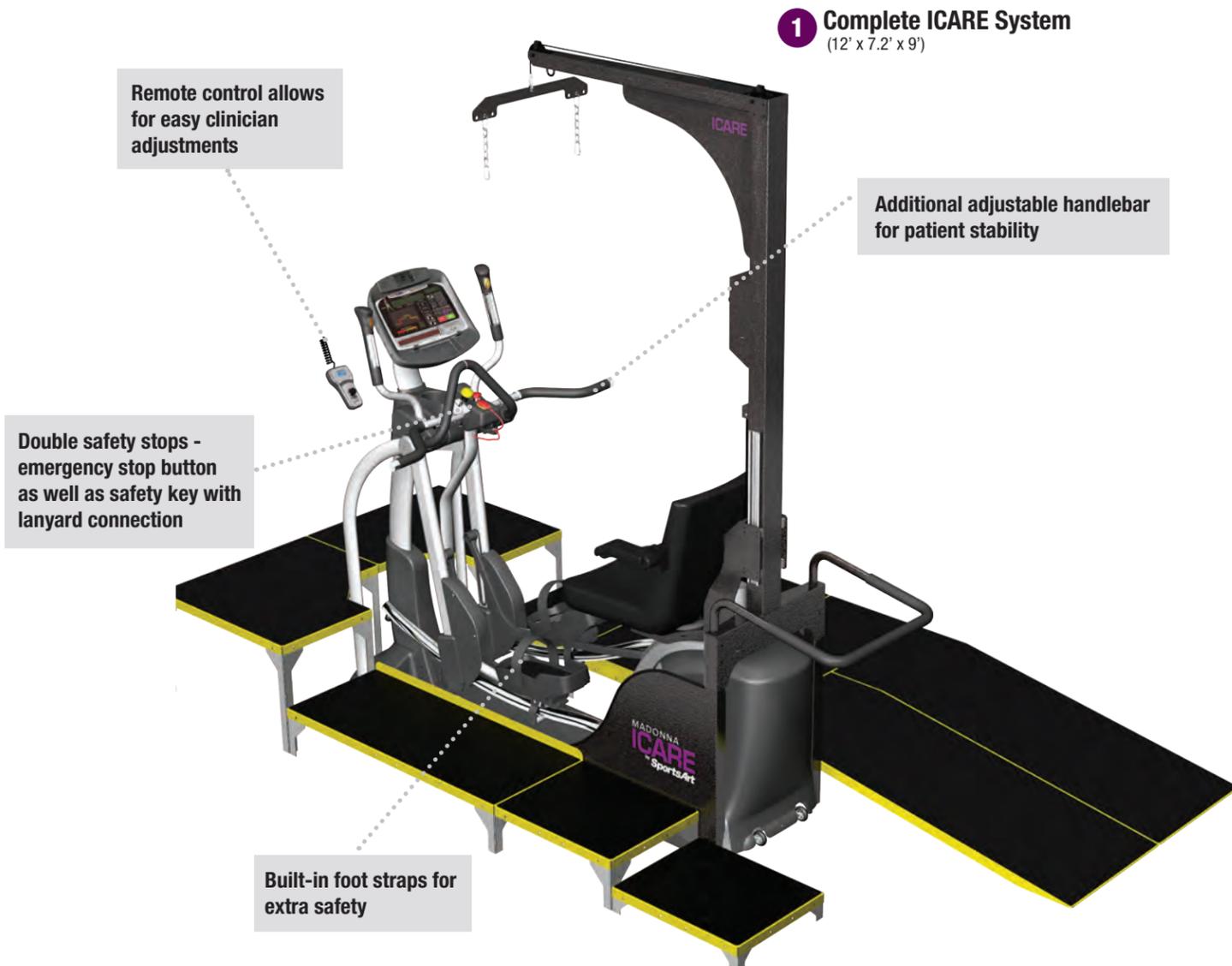
Director of the Institute for Rehabilitation Science and Engineering and the Movement and Neurosciences Center at the Madonna Rehabilitation Hospital



MADONNA
ICARE
by *SportsArt*

Empowering patients, assisting clinicians

ICARE, the Intelligently Controlled Assistive Rehabilitation Elliptical trainer helps physically challenged individuals and those with chronic conditions regain or retain their walking ability and levels of physical fitness. Its controlled assistive rehab design frees clinicians from hours of strenuous manual manipulation and improves patient access to assistive technology. ICARE is an economic solution for efficient patient care and provides a step toward improved outcomes.



1 Complete ICARE System
(12' x 7.2' x 9')



2 ICARE Elliptical plus body unweighting system
(8.5' x 3.5' x 9')



3 ICARE Elliptical only
(7.2' x 2.6' x 5.9')



The ICARE system can be customized to meet unique patient and facility needs:

1 Complete ICARE system:

➤ SportsArt Elliptical Trainer with ICARE protocol:

- Research shows that SportsArt's elliptical more closely simulates a natural walking motion than any other elliptical evaluated (Burnfield JM, Shu Y, Buster TW, Taylor AP (2010))
- Forward and reverse motor assistance while training at speeds up to 65 cycles per minute
- Automatic motor assistance adjusts to accommodate needs of user during training
- Single or dual leg training options accommodate clients with or without amputations
- Passcode control and integrated safety switches offer added security
- Remote control for easy clinician adjustment
- Dual action motion for a complete body workout
- Electronically adjustable stride range from 17"-29" with fingertip shift-on-the-fly controls
- Contact and telemetry heart rate control

➤ Wheelchair ramp and stairs

➤ Body unweighting system

- Electronic height adjustable swiveling seat for easy on/off access
- Safety strap
- Lifts up to 80% of 500 lb. body weight

2 ICARE Elliptical plus body unweighting system with electronic seat height adjustment

3 ICARE Elliptical only, protocol is passcode protected so unit can be used as a standalone fitness trainer

“I've been impressed with the advances in technology over the past decade, but concerned that the price tag means that many promising devices are not readily available beyond the research environment or specialized hospitals” — Dr. Judith Burnfield, PT, PhD



The ICARE system is a product of a collaboration between Madonna Rehabilitation Hospital, one of the nation's foremost facilities for medical rehabilitation and research, and SportsArt, an international manufacturer of premium fitness and rehabilitation equipment.

Individuals with and without disabilities have participated in extensive biomechanical and equipment evaluations during the initial development period, as well as subsequent clinical testing in physical rehabilitation hospitals and a fitness center. The ICARE design promotes greater elliptical trainer accessibility so that people with disabilities can participate in effective therapeutic exercise and gait programs to promote optimal health, quality of life, and maximum independence.

For more information and links to detailed research about the ICARE system, log on to:

➔ www.sportsartamerica.com/ICARE

Contact us - icare@sportsartamerica.com or 800.709.1400 x201

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