PATHWAY® ULTRASOUND IMAGING SYSTEM FOR LUMBOPELVIC REHABILITATION

Orthopedic

Pelvic Health
Designed by a Rehabilitation Professional, for Rehabilitation Professionals.

“The affordability, ease of use, and image quality of this system is going to revolutionize clinical practice by providing access to technology that was once limited to academic research.”
- Ramona C. Horton, MPT

“Portability is a huge benefit and probably my favorite. I take the entire system to work in my laptop bag and can move it from clinic to clinic very easily.”
- Allison A. Thompson, PT, DPT, CLT-LANA, BCB-PMD

1. Touchscreen Tablet With Detachable Keyboard and Operator’s Guide

2. 3.5-7.5 MHz Curvilinear Ultrasound Imaging Transducer With USB C Plug In Cable

3. Wireless Mouse

ADVANCED DIGITAL ELECTRONICS

TABLET PC BASED

Inverted Image Display
Key Features & Benefits

**SLEEK**
Portable equipment fits in a laptop bag.

**AFFORDABLE**

**PRICE**
High resolution ultrasound at a fraction of the cost.

**IMAGE QUALITY**
Clearly identify images not typically detected by other ultrasound imaging systems.

**USER FRIENDLY PRESET CONFIGURATIONS**
Preset protocols produce optimum ultrasound images.

**STANDARD PC KEYBOARD**
Making annotations and typing patient information is quick and easy with the PC keyboard.
“Research reveals that the primary impairment of the muscular system in individuals with low back pain is not one of strength or functional capacity but rather one of motor control of the deep muscles of the trunk. The use of ultrasound imaging to observe the real-time contraction of muscles is a valuable tool, specifically when the muscles of interest are deep and not readily observable” (Whittaker, 2004).
Pelvic Health

Motor Retraining  Identifying Dysfunction

Anterior Abdominal Wall With Measurement of Inter-Rectus Distance

Pediatric Patient With Full Rectum

Pelvic Floor Muscles, Poor Stabilization During Functional Task

Pelvic Organ Prolapse Observed During Valsalva

Transperineal View Male, Post Prostatectomy

Post Void Residual on a Pediatric Patient
Pathway® Ultrasound Imaging System for Lumbopelvic Rehabilitation
Virtual Training Portal & Customer Care Guide

The EchoGen Portal is brought to you by:

The Prometheus Group®

Ramona C. Horton, MPT
Pelvic Health Physical Therapist and Educator

24/7 Ultrasound Training Portal Website
(www.echogenportal.com)

- Comprehensive Instructional Video Library
- Extensive Image Library
- Helpful Resources
- One on One Interactive Skype Support (for an additional fee)
- Access code required (provided with purchase)

Included in your purchase

Technical Support Available
1-800-272-8492

1. Unlimited hardware and software telephone Technical Support via The Prometheus Group®
2. Team Viewer via The Prometheus Group®

Hands-On Training is Available!

Upcoming Herman & Wallace Rehabilitative Ultrasound Imaging - Women’s Health and Orthopedic Topics Courses:

Visit the Herman and Wallace website online at www.hermanwallace.com for course dates and locations.

Enter the Code TheProGroup at Checkout to Receive a 10% Discount!

Co-Sponsored By:

Allison Ariail, PT, DPT, CLT-LANA, BCB-PMD, PRPC
Course Instructor

The Prometheus Group®

Contact us today for more information.
One Washington Street, Suite 3171, Dover NH, 03820
info@theprogrp.com | www.theprogrp.com | 1-800-442-2325

Ramona C. Horton, MPT
Pelvic Health Physical Therapist and Educator
Selected References


Equipment Specifications

**Accuracy:**
Distance: ±2%, ±2 mm

**Ultrasound Probe Dimensions and Weight:**
Width: 6.2 cm (2.44 in)
Height: 2.6 cm (1.02 in)
Length: 15 cm (5.9 in)
Weight: 110 grams (3.88 oz)

**Ultrasound Output Parameters:**
- **Depth Range:** 2 - 30 cm (Selectable, 1 cm increments)
- **Pulse Frequency:** 3.5 MHz, 5 MHz, 7.5 MHz (Selectable)
- **Focal Zone:** Programmable
- **Focal Point:** Dynamic
- **Scan Angle:** 60°
- **Scan Mode:** B-Mode
- **Patient Contact Sector Length:** 49 mm (2.5 in)
- **Frame Rate:** 20 fps
- **ISPTA.3:** 13.7 mW/cm² (maximum)
- **ISPPA.3:** IPA.3 @ Mlmax = 180 W/cm²
- **Mechanical Index:** 1.02 (maximum)
- **Transducer Diameter:** N/A
- **Transducer Resonant Frequency:** 5.0 MHz (calculated center freq.)
- **Transducer Bandwidth:** Over 60%
- **Number of Scanning Planes:** 1
- **Pulse Repetition Frequency:** 5.1 kHz
- **TIS:** 0.115

**Tablet PC:**
- **Display:** 12.1 in
- **Resolution:** 1920 X 1200
- **Processor:** Core i5 2.3 GHZ
- **RAM:** 4 GB
- **Hard Drive:** 256 GB
- **Battery:** 38 Whr Rechargeable Battery
  (Providing 4+ hours of use)
- **Length:** 30.0 cm (11.8 in)
- **Width:** 20.1 cm (8.1 in)
- **Height:** 1 cm (0.4 in)
- **Weight:** 0.9 kg (1.98 lbs)
What is the difference between real-time ultrasound and rehabilitative ultrasound?
At the inaugural Rehabilitative Ultrasound Symposium held in San Antonio, TX in 2007, the consensus was reached to adopt the official title rehabilitative ultrasound imaging (RUSI) for the utilization of ultrasound imaging by physical therapy professionals.

At the symposium, the delegates unanimously agreed to a “Rehabilitative Ultrasound Imaging International Consensus Statement” as follows:

RUSI is a procedure used by physical therapists to evaluate muscle and related soft tissue morphology and function during exercise and physical tasks. RUSI is used to assist in the application of therapeutic interventions aimed at improving neuromuscular function. This includes providing feedback to the patient and physical therapist to improve clinical outcomes.

How do I bill for RUSI in a clinic visit?
There are no specific CPT codes for RUSI, it is a component of a standard timed charge that includes training of movement systems such as therapeutic activities, therapeutic exercise or neuromuscular re-education. Assessing for progress of motor function could be a component of a re-evaluation charge.

How is it cost effective?
Patients progress much faster when they can actually see the deep stabilizing muscles you want them to activate. The therapist can quickly observe suboptimal activation strategies and provide instantaneous feedback in early training and functional activities. The addition of RUSI can be used as a marketing tool to draw traffic to your clinic.

I have sEMG biofeedback, why should I spend the money for RUSI?
Surface EMG provides a quantitative value of the motor action potential of the pelvic floor muscles, but can not validate PFM lift which is associated with continence. RUSI can provide information on muscle morphology such as size as well as motor activation patterns for the PFM, abdominal wall, and lumbar stabilizers.

RUSI is useful for strength training, what about the patient with overactive muscles?
Patients with overactive pelvic floor or abdominal muscles can clearly see their muscle activation pattern as well as a voluntary inhibition. This PFM motor pattern is visible from a suprapubic view using the bladder as a window or a transperineal view observing the anterior and posterior compartment. Downtraining with breathing and inhibition provides visual feedback to the patient.

Do I need specialized training or certification to use RUSI?
You should always refer to your state practice act, but currently there are no known specific requirements for certification for PTs performing RUSI. Certifications for physical therapists do exist through third-party agencies. These are more for the orthopedic and sports medicine therapists evaluating for muscle pathology, none are recognized by the APTA. At present, RUSI hands-on training courses are offered through multiple continuing education companies to include the Herman & Wallace Pelvic Rehabilitation Institute.

Is there training available?
All purchases of the Pathway® RUSI system include access to our exclusive online training videos and libraries via the EchoGen Portal. Videos will include ultrasound basics, system operation and clinical applications such as lumbopelvic motor retraining, measuring bladder volume, male and female transperineal imaging, plus a library of stored images with labels and select patient cases.

How do I sterilize the probe between patients?
Probes are sanitized with Alcohol-Free disposable wipes that are designed for the exact use. Never wash it under running water. It is essential that the correct wipe is used, alcohol-based disinfectants can damage the surface of the probe. We recommend PDI Sani-Cloth AF3.
Shipping & Returns

To Place an Order:

Call Customer Service toll free at 1.800.442.2325 or Fax 1.603.749.0511
Customer Service Representatives are happy to assist with processing your
order or answering your questions, Monday - Friday, 9am - 5pm EST.

Payment Terms:

NET 30 Terms are available for established accounts. All major credit cards are
accepted.

Shipping:

(F.O.B.) shipping point. Please allow five (5) days for delivery. Rush (air freight)
orders are shipped F.O.B. shipping point.

Credit & Returns:

Equipment may be returned within 30 days from the invoice date
(subject to a 20% restocking fee).

Accessories that are unopened, undamaged, and unmarked may be
returned for full credit within 30 days from the invoice date.

Please call Customer Service for a RMA# prior to returning the product and be
sure the RMA# is clearly visible on the outside of the package.

Technical Support:

Have a question about your equipment or need technical assistance?

Call our Technical Support Team toll free at 1.800.272.8492
Monday - Friday, 9am - 5pm EST.