

## **FOR IMMEDIATE RELEASE**

Thursday January 1<sup>ST</sup>, 2026

**SOFi M<sup>2</sup>™** and Acoustic Myography (AMG) is now being used in sports medicine!

**SOFi M<sup>2</sup>™** and Acoustic Myography (AMG) are reshaping sports medicine by giving clinicians real-time, motion-based insight into how muscles actually function during **activity**. AMG measures the mechanical pressure waves produced by contracting muscle fibers, and SOFi M<sup>2</sup>™ turns that signal into a portable, clinical-grade diagnostic and biofeedback platform. This combination is being used across human, equine, and canine sports medicine to detect injury risk earlier, guide rehabilitation, and optimize performance.

---

### **What Acoustic Myography Measures**

AMG captures the *mechanical* side of muscle activity—something EMG cannot. It quantifies three core parameters:

- **S-score (Spatial Summation Amplitude recruitment)** — how many fibers are activated
- **O-score (Organization Efficiency/Coordination)** — how long fibers stay active
- **F-score (Frequency Temporal Summation)** — how effectively fibers cycle during movement
- **i- (Integrated)** — signal

Acoustic myography (AMG) identifies abnormalities in muscle function through the evaluation of three distinct parameters: the number of muscle fibers recruited during movement (S), the time period of muscle fiber activity during movement (O), and the speed with which muscle fibers are activated repeatedly during movement (F), Integrated Signal (i). *Real Time Reports* **SOFi™ by AMT**

AMG can be used to determine if there is muscular symmetry as well as if the SOF scores are consistent with known normal results. SOF scores can be used to:

- Identify the location of injury based upon symmetrical imbalance or
- Determine the presence of neuromuscular dysfunction

---

These metrics reveal subtle neuromuscular deficits, early fatigue, asymmetry, and compensatory patterns long before structural injury appears. [Elite Equestrian magazine](#)

### **How SOFi M<sup>2</sup>™ Brings AMG Into Sports Medicine**

Advanced Myographic Technologies transformed AMG from a research tool into a field-ready clinical system. Key features include:

- **Wireless, 10-gram sensors** for full-motion testing
- **Real-time BSP scoring** (Balance, Strength, Performance)
- **Cloud analytics + mobile app** for instant interpretation
- **FDA 510(k)-exempt classification** (21 CFR 890.5360, product code QKC)
- **Use during real activity**—running, skating, jumping, lifting, riding

This allows clinicians to evaluate athletes in the exact movement patterns that matter. [Elite Equestrian magazine](#) [YouTube](#)

---

## How It's Being Used in Sports Medicine Today

### Beyond Human Athletes

#### 1. Early Injury Detection

---

AMG identifies:

- Left/right asymmetry
- Poor fiber recruitment
- Inefficient firing patterns
- Overuse signatures

These patterns often appear *before* pain or structural injury. [Elite Equestrian magazine](#)

#### 2. Objective Return-to-Play Decisions

Instead of subjective strength tests, *SOFi M<sup>2</sup>*™ provides:

- Quantitative muscle balance
- Efficiency recovery curves
- Coordination metrics

This reduces reinjury risk and supports evidence-based clearance. [Elite Equestrian magazine](#)

#### 3. Precision Rehabilitation

Therapists can see in real time:

- Whether the correct muscles are activating
- Whether compensations are forming
- How fatigue alters recruitment

Rehab becomes targeted, measurable, and adaptive. [Elite Equestrian magazine](#)

#### 4. Performance Optimization

Athletes and trainers use AMG to:

- Tune technique
- Improve muscle efficiency
- Monitor hydration effects on muscle function (as noted by NHL legend Denis Potvin)
- Track training load and fatigue

[myographytech.com](http://myographytech.com)

---

