



**sam<sup>®</sup> Sport**

Sustained Acoustic Medicine

# ***Workers Comp Cost Containment Solution “Getting the Patient Back to Work Faster”***



July 2018

Manufactured by  
**ZetroZ<sup>™</sup>**

# What is it?



**sam<sup>®</sup> Sport** is the first and only FDA cleared wearable *Low Intensity Ultrasound* device delivering multi-hour treatment to accelerate healing & improve function for musculoskeletal injuries and treating fresh fractures.



**sam<sup>®</sup> Sport** provides continuous *Low Intensity Ultrasonic waves* that penetrate up to 5-cm (2-inches) into the tissue and approximately the diameter of a Baseball:  
*3MHz and 0.65 Watts/Applicator*  
*(Energy Density 0.132 Watts/cm<sup>2</sup> per Applicator).*

# Ease of Use



## Designed for ease of Patient Use

**← sam® Coupling Patch**

**← sam® Applicator**

- Frequency: 3MHz
- Power: 0.65W/Applicator

**← sam® Y-Adapter**

- Flexibility to Connect 1 or 2 Applicators

**← sam® Power Controller**

- Power On/Off
- Treatment Time: 1,2,3 or 4 hrs.
- Rechargeable

**Using SAM® is as Easy as 1, 2, 3.**

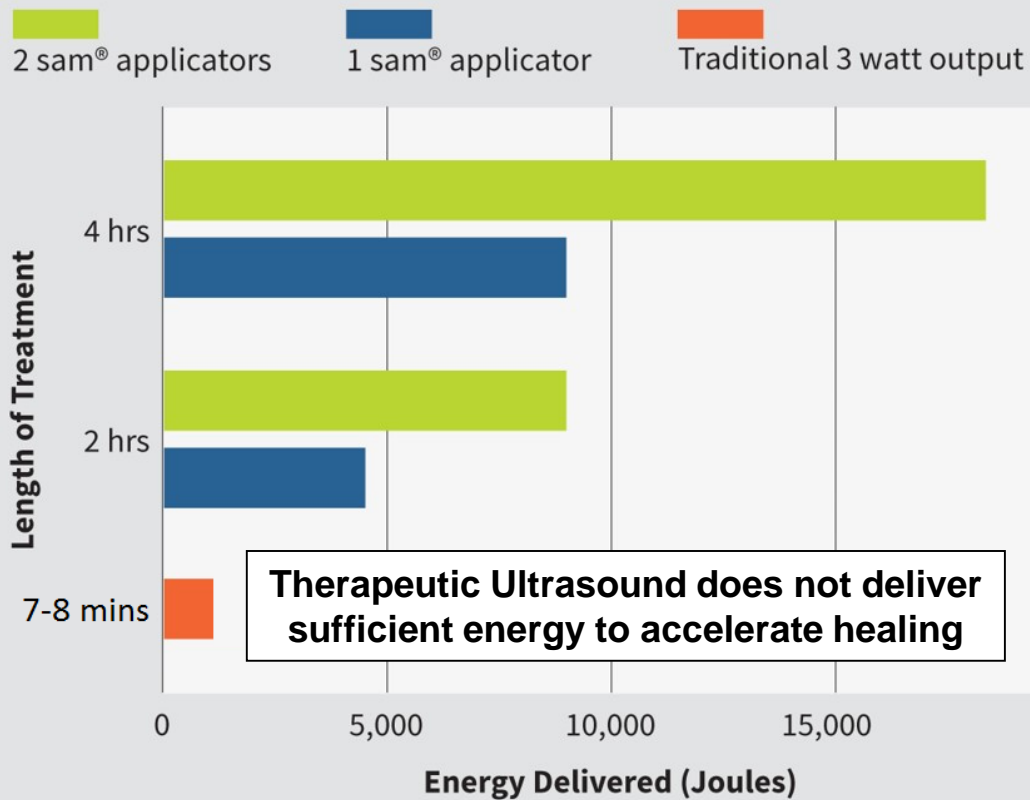
1. “Snap” the Applicators into the Coupling Bandages
2. “Remove” the Coupling Bandage backing and apply to the Injured Tissue and Pain areas
3. “Turn-On” the Power Controller and set the Treatment Time (Typically 4-hours)



# Energy Dosing



## sam<sup>®</sup> Sport vs. Traditional Ultrasound



## **Primary Mechanisms of Action for sam<sup>®</sup> Sport and the multi-hour Treatment include:**

- Accelerated Collagen Laydown
- Increased Multi-hour Blood-flow
- Accelerated Oxygenated Hemoglobin in Muscles
  - Accelerated Angiogenesis effect for Capillary Development
  - Accelerated Lactic Acid Depletion

***Accelerated Healing, Function Improvement, Bone Growth***

# Treatment Duration



## Injury Treated with sam<sup>®</sup> Sport

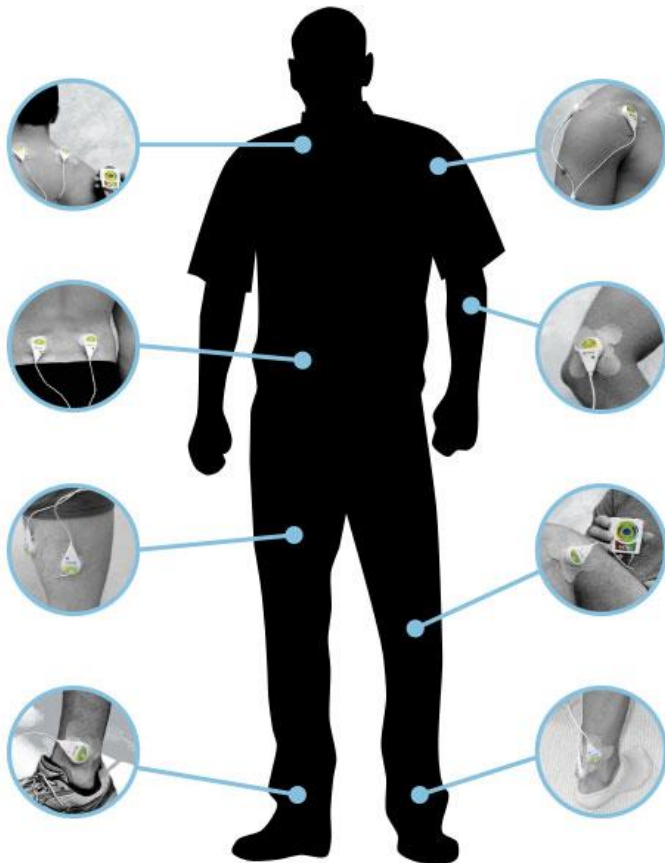
## Typical Treatment Duration/Range (4-hours/Treatment per Day)

Acute or Chronic Tendonitis: Elbow, Bicep or Shoulder	1-4 weeks
Calf Muscle Strain or Tendonitis	1-2 weeks
Bone Growth: Contusions	2-weeks
Metatarsal Stress Fracture	2-weeks
Clavicle Fracture	4-weeks
Knee OA, Pain or Strain/Hyperextension	2-4 weeks
Post-op UCL Reconstruction Rehab	2-6 weeks
Hamstring Strain or Tear	2-6 weeks
Ankle Injuries: Sprain or Frayed Achilles	1-4 weeks
Hip Abductor or Flexor Muscle Injury	2-4 weeks
Post-op Hip Labrum Tear Rehab	4-8 weeks
Post-op Shoulder Labrum Tear Rehab	4-8 weeks
Quad Strain or Tendonitis	1-4 weeks
Patellar Tendonitis	1-4 weeks
Plantar Fasciitis	1-2 weeks
Groin Pull or Strain	1-2 weeks
External Abdomen and Pectoralis Strain	1-3 weeks
MCL Sprain	2-4 weeks
Acute or Chronic Lower Back Pain or Sciatic Pain	2-4 weeks

**Most Injuries and Pain Reduction using sam<sup>®</sup> Sport in the Treatment Protocols are resolved in 2 – 4 weeks...getting the patient back to work**

**Patient will notice a reduction in pain and increased range of motion after the first week of using sam<sup>®</sup> Sport**

# Summary



- sam<sup>®</sup> Sport accelerates the Injury Recovery and Provides Rapid Pain Reduction (without Opioid-based Pain Medication)
- Pain Reduction begins in the first week of use
  - Most injuries are healed in 2-4 weeks
- sam<sup>®</sup> Sport can be worn back at work or for at home treatment
- sam<sup>®</sup> Sport can reduce the number of PT visits and shortens the recovery time
- **Primary benefits are getting the Patient back to work faster and eliminating the dependence and cost of Opioid-based Pain Medication.**

# Testimonials



**Patient:** Chanel H. - Denver, CO

**Occupation:** Front Office Staff

**WC Injury:** Lateral Epicondylitis

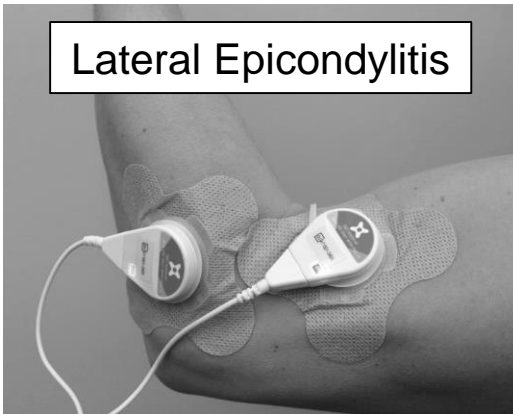
## Testimonial:

Initial Pain Level (Scale 1 “Least” – 10 “Worse Pain Possible”) prior to using sam<sup>®</sup> was “8” and after using sam<sup>®</sup> for “4 weeks”, my Pain Level is “0-1”.

I was prescribed Pain Medication and after using sam<sup>®</sup> I was able to “stop using Pain Medication after 5-days of treatment with sam<sup>®</sup> Sport”.

*“I would like to say that my doctor recommend me to have the portable ultrasound (sam<sup>®</sup>) unit and I am so thankful to have used the device. It has eliminated my pain and it was very easy and convenient to use. I would highly recommend use of this product.”*

Lateral Epicondylitis

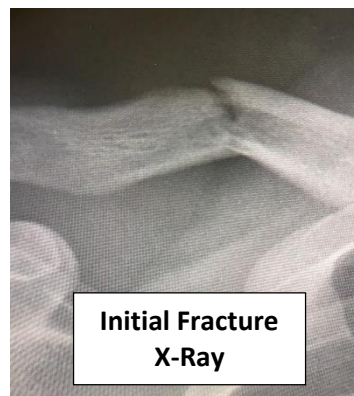


# Testimonials



**Doug Frye**  
**Director of Sports**  
**Medicine**  
**Jacksonville**  
**University**

*We used sam<sup>®</sup> Sport on a Clavicle Fracture over a four-week period. For 4-weeks the athlete was in a Figure 8 Clavicle Brace and used sam<sup>®</sup> Sport once a day, 4-hours per day for 4-weeks. The X-Rays obtained at the 4-week mark showed a healed clavicle fracture at the 6-week mark, the X-Rays showed complete healing and the athlete was able to return to modified weight room activities. The sam<sup>®</sup> Sport played a pivotal role in the early phases of treatment in the athlete back to activities quickly and safely.*



# Testimonials



**Patient:** John C. - Indianapolis, IN

**Occupation:** Pharmaceutical Rep    **WC Injury:** Ruptured Disc

## Testimonial:

*“Pain was significant, I could barely walk. This injury also affected my sciatic nerve. On a scale of 1 through 10 pain was at 8. Pain radiated from glut to back of hamstring into calf (felt like it was going to explode) down outside of leg to around bottom of ankle then into arch and toes. Didn’t matter what position, had difficulty standing, sitting and worst was lying down as leg was throbbing”.*



*“sam® Sport unit was initiated, after 2 days I noticed the sharpest of the pain had diminished. I noticed between days 5 and 6 that I was capable to walk again with significantly less pain. After 10 days of therapy the numbness and sciatic pain I experienced was almost gone. I am able to ride a bike. I was surprised at how effective the sam® Sport unit is. Wish it was initiated closer to the day of injury.”*

# Applicator Placements



Chronic Lower Back & Sciatic Pain



Trapezius Back Pain & Spasms



Neck Pain & Spasms



Frozen Shoulder & Tendonitis



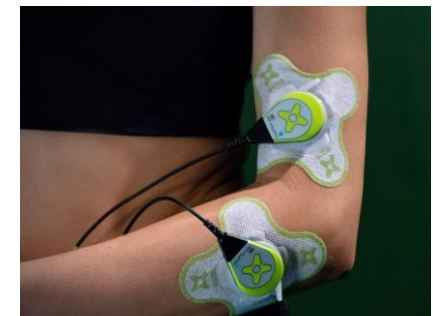
Frayed Achilles & Post-Op Recovery



High Ankle Sprain



Metatarsal Stress Fracture



Lateral Epicondylitis

# Applicator Placements



Hip Pain/OA & Abductor Strain



Calf Muscle Strain



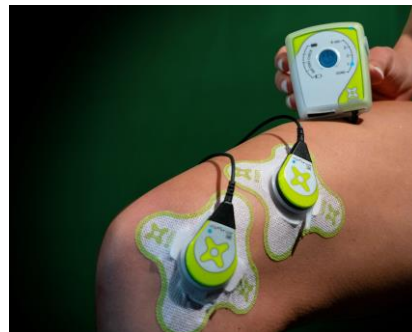
Adductor Muscle Strain



AC Joint Sprain & Clavicle Fracture



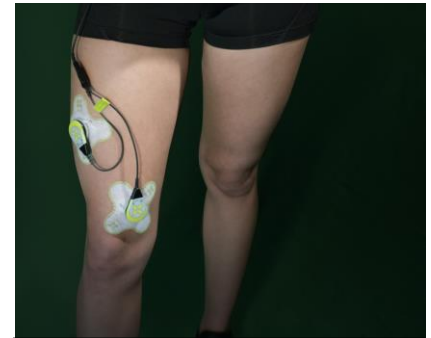
Patellar Pain & Tendonitis



MCL Sprain



Knee Pain, OA & Hyperextension



Quad Strain & Tendonitis

# Applicator Placements



Plantar  
Fasciitis



Low Hamstring  
Strain/Partial Tear



Mid Hamstring  
Strain/Partial Tear



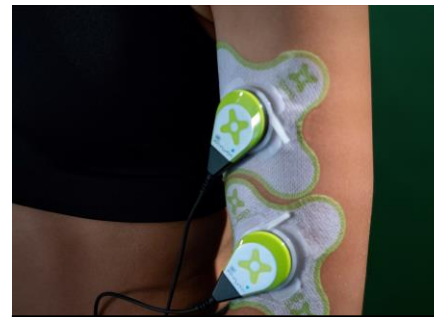
High Hamstring  
Strain/Partial Tear



Oblique Muscle  
Strain



Carpal Tunnel  
Syndrome



Bicep  
Tendonitis



Forearm Strain