

# SAM<sup>®</sup> Pelvic Sling II

FOR STABILIZATION OF PELVIC FRACTURES WITH THE CORRECT FORCE



**SAM<sup>®</sup>**  
MEDICAL

• Just insert belt through buckle, pull strap, and secure

## DESIGN

LOW FRICTION  
POSTERIOR  
SLIDER  
FACILITATES  
TRANSFERS

PATENTED SAM® AUTO-STOP BUCKLE

VELCRO ON  
STRAP FOR  
QUICK FASTENING

STANDARD SIZE  
FITS 98% OF THE  
POPULATION

REUSABLE  
FABRIC DOES  
NOT STRETCH;  
CLEANS FOR  
RE-USE WITH  
STANDARD  
DETERGENT OR  
ANTI-MICROBIAL  
SOLUTIONS

THE FRONT OF THE SLING IS NARROW AND TAPERED  
TO FACILITATE URINARY CATHETERIZATION,  
INTERVENTIONAL RADIOLOGY, EXTERNAL FIXATION  
AND ABDOMINAL SURGERY

RADIOLUCENT, ALLOWS FOR X-RAYS WITHOUT REMOVAL\*

\* The buckle contains two stainless steel springs. Researchers have stated that "Artifacts proved negligible and did not affect posterior fracture visualization". (Krieg clinical trial)

## SAM® PELVIC SLING II

### Why does controlling circumferential force matter in the treatment of pelvic fractures?

At the time of initial evaluation, the exact type of fracture is usually unknown. In some cases, too little force will not close or stabilize the fracture; in others, too much force can collapse the pelvic ring. The SAM® Pelvic Sling II stands alone as the only pelvic binder pre-programmed to apply the safe and correct force for all pelvic fractures.

Trauma surgeons around the world recognize the importance of stabilizing pelvic fractures during the critical first "golden hour" following severe trauma. Because of the potentially devastating hemorrhage associated with such fractures, standard first aid protocol includes applying some type of circumferential binder around the patient's hips.

### FUNCTIONAL DESIGN

The SAM® Pelvic Sling II is the first and only force-controlled circumferential pelvic belt. It is scientifically proven in peer-reviewed studies to safely and effectively reduce and stabilize open-book pelvic ring fractures.

The SAM® Pelvic Sling II was designed not to over-tighten or under-tighten, unlike other commercial binders which allow unlimited force to be applied to the patient. Researchers at Legacy Health System utilized cadaver studies and clinical trials to determine the optimum range of force required to safely and effectively close an unstable pelvic fracture.

### ONE-PIECE DESIGN

The SAM® Pelvic Sling II offers a simple one-piece design with no detachable hardware. It is compact, easy to use (only three steps), and quick to apply (usually in less than one minute). Our standard size fits, without cutting or trimming, 98% of the adult population.

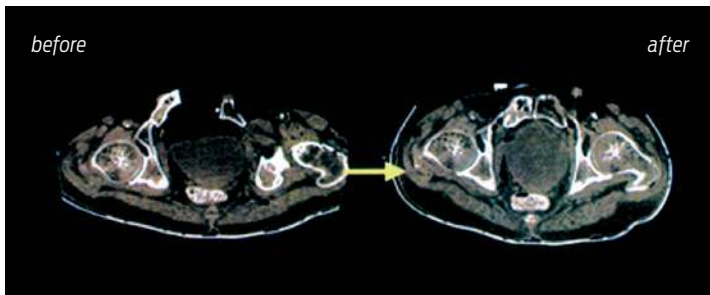
The patented SAM® AUTO-STOP buckle is programmed to stop your pull once the correct compression force has been obtained. Two prongs are released from the buckle, which stops the belt from further tightening. (It does not require a fine touch to operate and gives clear feedback by sound and feel to confirm correct application.)



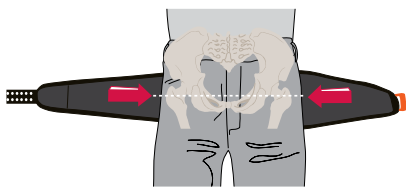
**ONE-PIECE DESIGN CONTINUED**

The sling is durable and unaffected by extremes of moisture and temperature or by exposure to hard or sharp objects. It is also radiolucent, MRI conditional, and can be cleaned for re-use with common detergents or anti-microbial solutions.

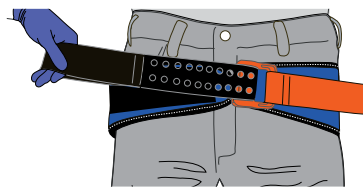
**IMAGE OF OPEN-BOOK PELVIC FRACTURE**



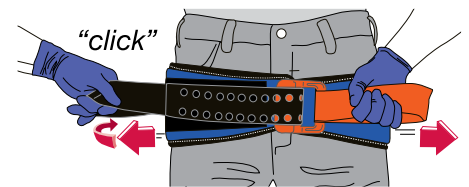
**3-STEP APPLICATION**



**01** Remove objects from patient's pocket or pelvic area. Place SAM® Sling II black side up, beneath patient at level of trochanters (hips).



**02** Place **BLACK STRAP** through buckle and pull completely through.



**03** Hold **ORANGE STRAP** and pull **BLACK STRAP** in opposite direction until you hear and feel the buckle "click". Maintain tension and immediately press **BLACK STRAP** onto surface of SAM® Pelvic Sling II to secure. (You may hear a second click as the sling secures.)

**FEATURES**

- Scientifically and clinically proven to provide safe and effective force to stabilize pelvic fractures
- Buckle maintains correct force; cannot be over-tightened
- Standard size fits 98% of population. Available in Small, Standard and Large sizes.
- "Click" provides clear feedback to confirm correct force and application
- Low friction posterior slider facilitates transfers
- Front of Sling is narrow and tapered to facilitate urinary catheterization, interventional radiology, external fixation and abdominal surgery
- Fabric does not stretch and cleans for reuse with standard detergents or antimicrobial solutions
- Radiolucent (allowing for X-rays and CT-scans without removal)\*
- Ease of application: just insert belt through buckle, pull strap, and secure
- Reusable, not a onetime use device
- Latex free
- No need to cut or trim to size

## FAQ'S

### WHY DOES CONTROLLING CIRCUMFERENTIAL FORCE MATTER IN THE TREATMENT OF PELVIC FRACTURES?

At the time of initial evaluation, the exact type of fracture is usually unknown. In some cases, too little force will not close or stabilize the fracture; in others, too much force can collapse the pelvic ring. The SAM® Pelvic Sling II stands alone as the only pelvic binder pre-programmed to apply the safe and correct force for all pelvic fractures.

### WHAT IS THE DIFFERENCE BETWEEN THE SAM PELVIC SLING II AND OTHER DEVICES USED IN EMERGENCY CARE?

The SAM® Pelvic Sling II is designed so it cannot be over-tightened. It is the only pelvic binder that will not allow a compression force greater than required to safely and effectively stabilize pelvic ring fractures. It provides the correct force each time, every time. This is documented in almost 100 peer review journals and national and international plenary session presentations.

### CAN THE SAM PELVIC SLING II BE USED ON A SUSPECTED PELVIC FRACTURE, EVEN IF IT IS NOT AN OPEN-BOOK FRACTURE?

There are no reported contraindications to using the SAM® Pelvic Sling II on any suspected pelvic fracture or injury. Peer-review studies have shown no contraindication to applying the SAM® Pelvic Sling II on lateral compression fractures.

### HOW DOES THE SAM PELVIC SLING II AFFECT THE SKIN'S SURFACE?

Interface pressures have been measured under the SAM® Pelvic Sling II and these pressures are usually very low. If the SAM® Pelvic Sling II is to be applied for extended periods, the skin should be inspected at regular intervals. Be especially observant when massive fluid resuscitation is required. Under these conditions, the SAM® Pelvic Sling II may have to be periodically released to accommodate increased pelvic volume. Be aware the SAM® Pelvic Sling II should be released very slowly.

### HOW DO I CLEAN THE SAM PELVIC SLING II?

The SAM® Pelvic Sling II can be cleaned by hand washing with standard detergent or broad spectrum antimicrobial solutions and can be reused multiple times if desired.

## RESEARCH STUDIES

*In a Sling: An Integrated Review of Pelvic Binders as a Best Practice*; Hall, Nicholas, Giodt, David; EMS1.com; 2013 Feb. 5.

*Car Versus Bicycle: Conclusion*; David W. Ross, DO, FACEP, Carol Wichman, BSN, MSN, and Mike MacKinnon, BSN, CEN, CCRN, CCFRN; Air Medical Journal; 28:6, 268-271, 2009.

*New Concepts in the Prehospital and ED Management of Pelvic Fractures*; Marvin A. Wayne, MD; Israeli Journal of Emergency Medicine; 6:1, 39-42, 2006.

*Emergent Stabilization of Pelvic Ring Injuries by Controlled Circumferential Compression: A Clinical Trial*; James C. Krieg, MD, Marcus Mohr, MS, Thomas J. Ellis, MD, Tamara S. Simpson, MD, Steven M. Madey, MD, and Michael Bottlang, PhD; Journal of Trauma; 59:659-664, 2005.

*Noninvasive Reduction of Open-Book Pelvic Fractures by Circumferential Compression*; Bottlang, M., Simpson, T., Sigg, J., Krieg, J.C., Madey, S.M., Long, W.B.; Journal of Orthopedic Trauma; 16:6, 367-73, 2002.

*Emergent Management of Pelvic Ring Fractures with Use of Circumferential Compression*; Bottlang, M., Krieg, J. C., Mohr, M., Simpson, T. S., Madey, S.M.; Journal of Bone and Joint Surgery; 84-A (Supplement 2): 43-47, 2002.

PART No	DESCRIPTION
SL556652-SM	Small: Hip Circumference: 27-47" (69-119cm)
SL556652	Standard: Hip Circumference: 32-50" (81-127cm)
SL556652-LG	Large: Hip Circumference: 36-60" (91-152cm)
SL556652-OD	Military: Olive, Hip Circumference: 32-50" (81-127cm)

From the makers of the SAM® Splint, SAM® Junctional Tourniquet, SAM® Soft Shell Splint, SAM® Chest Seal, ChitoSAM™ and Blist-0-Ban®.

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MANUFACTURED BY:



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