



# SAM<sup>®</sup> SPLINT

FOR IMMOBILIZING SKELETAL AND SOFT TISSUE INJURIES  
THE GOLD STANDARD IN SPLINTS

**LIGHTWEIGHT  
WATERPROOF**

**REUSABLE  
COMPACT**

**RADIOLUCENT  
VERSATILE**



## THE STORY OF THE **SAM® SPLINT**

Dr. Sam Scheinberg knows all about splints. As a trauma surgeon during the Vietnam War and as a board certified orthopedic surgeon on the Oregon Coast, he has seen plenty of fractures and broken bones.



Vietnam demonstrated how woefully inadequate splints of the 1960s and '70s were. Bulky constructs of wire, cardboard, and all-too-easily punctured air splints, they couldn't be reused, never seemed to properly fit, and frequently caused more harm than good. In Vietnam, field medics often ignored them and substituted even more old-fashioned techniques, such as lashing poles and branches (or even parts of a rifle) to the injured limb.

On his return to the U.S., Sam pondered this problem. He wondered if there was a way to make a light-weight but strong, reliable, and reusable splint. Relaxing after a 24-hour shift, Sam was playing with the foil wrapper of the gum he was chewing, curling it around his finger. In an "Aha!" moment, he realized that the foil, while flimsy in its normal state, was much stronger when bent into a "U" shaped curve.

Intrigued, Sam obtained a larger piece of aluminum and began work on his first prototype. Using a thin sheet of soft aluminum and the right padding materials, he realized it would make an exceptional splint. Having satisfied his curiosity, Sam nearly set the project aside, but his wife wouldn't let him. He later remarked, "That was the luckiest ten minutes of nagging in my life."

It took years of meticulous experimentation, but by 1985, Sam and Cherrie were selling the first SAM® Splints (structural, aluminum, malleable). Today, the SAM® Splint is the most popular emergency splint in the world, favored by emergency crews, armed services, outdoor enthusiasts, and rescue teams. The SAM® Splint can even be found aboard the Space Shuttle and on Himalayan expeditions.



Double Layer Wrist Splint shown

### WHAT IS THE SAM® SPLINT?

Acclaimed by emergency care providers and outdoor enthusiasts worldwide (and even beyond, on NASA's space shuttles), the SAM® Splint is the gold standard in splinting. SAM stands for structural, aluminum, and malleable and is used for immobilizing bone and soft tissue injuries.

#### The SAM® Splint is based on an ancient construction principle: curves are strong.

The SAM® Splint is built from a thin core of aluminum alloy, sandwiched between two layers of closed-cell foam. The splint is exceptionally pliable and when bent into a simple curve, it becomes strong and supportive for any fractured or injured limb. The splint is extremely moldable, and soft enough to cut with ordinary household scissors.

**The result:** with the proper choice of curves outlined in the training guide, almost any bone in the body can be splinted. Other splints derive their strength from the materials from which they are constructed: metal, wood, plaster, etc. Unfortunately, that means in order to be strong, they are usually heavy, bulky, and not easily adjustable to a wide variety of needs.

#### TECHNICAL DETAILS

Core made of ultra-thin aluminum alloy

Outer layers made of dermatologically safe, latex-free closed-cell foam

Standard: 4.25" x 36"; 4oz; roll and flatfold

Junior: 4.25" x 18"; 2.4oz; flatfold

Wrist: 4.25" x 9"; 1.1oz; flat

XL: 5.5" X 36"; 5.9oz; flatfold

Finger: 1.8" x 3.75"; 0.2oz; flat

#### AVAILABLE SIZES

SAM® Splint 36"

SAM® Splint XL 36"

SAM® Junior Splint 18"

SAM® Wrist Splint 9"

SAM® Finger Splint

SAM® Vet Splint 36"

**Who uses the SAM® SPLINT?** From mountain trails to military combat zones, from outer space to the ocean depths, in all weather conditions and terrains, the SAM® Splint is the emergency splint of choice for: EMS personnel, Military Medics, Athletic Trainers, Wilderness Rescue, Outdoor Adventurers, First Responders, Safety Engineers, Veterinarians, Hospitals, Ski Patrols, and more.





On the Ground

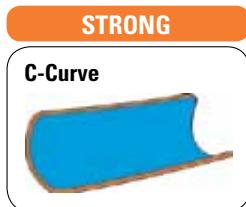


In the Battlefield

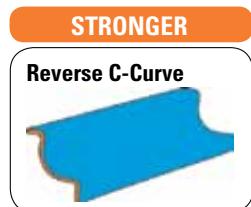


Up in Space

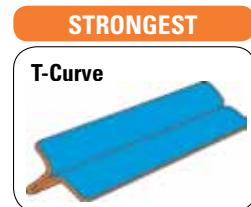
## THE 3 BASIC BENDS



C-Curve



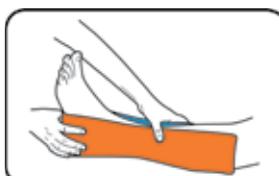
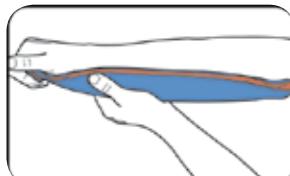
Reverse C-Curve



T-Curve

CREATE A LONGITUDINAL BEND TO GIVE THE SPLINT STRENGTH AND IMMOBILIZE THE LIMB.

## SAMPLE SPLINTS



### Double Layer Wrist Splint:

In the double-layer configuration, one can easily see how the splint is custom molded in each unique application. The two-layered splint is curved into the basic bend, molded to your own extremity and then applied to the patient. Small adjustments are made after applying the splint to the patient.

### Ankle Stirrup:

For ankle support. This is especially useful when weight bearing is required. Be sure to pad the bony prominences on both sides of the ankle.

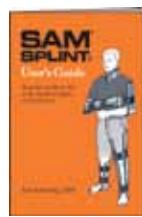
### Humeral Shaft Splint:

There are not many splints you can do this with! Humeral shaft fractures are difficult to splint. See manual for complete instructions.



### Radiolucent

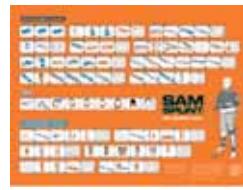
Shown is an image from an actual X-ray with a SAM® Splint still applied to the arm. The SAM® Splint is radiolucent (does not have to be removed for X-rays).



User's Guide



Quick Guide Reference



Poster



### VIDEO RESOURCES

- View instructions for using the SAM® Splint on a variety of bones at: [www.sammedical.com](http://www.sammedical.com)
- Videos also available on YouTube.com
- Instructional DVD available upon request



The SAM® Splint was featured in the exhibit SAFE: Design Takes on Risk at the Museum of Modern Art in New York City. The exhibit recognized and appreciated exceptional functional design and technology in emergency equipment.

## PUBLICATIONS

The SAM® Splint is featured in a variety of publications for wilderness and emergency care. Here are a few of our favorites.

**A Comprehensive Guide to Wilderness and Travel Medicine.** Eric A. Weiss, M.D. Adventure Medical Kits. (2005).

**A Practical Guide to Sports First Aid.** Wayne Gill. Lotus Publishing. (2005).

**Backcountry First Aid and External Care.** Buck Tilton. Falcon Publishing Co. (2007).

**The Backpacker's Field Manual.** Rick Curtis. Three Rivers Press. (2005).

**Field Guide To Wilderness Medicine.** Paul S. Auerbach, M.D.; Howard J. Donner, M.D.; Eric A. Weiss, M.D. (3rd Edition). Mosby, Inc. (2008).

**First Aid.** Headquarters, Departments of the Army, the Navy and the Air Force. FM 4-25.11 (supercedes FM 21-11). (23 December 2002).

**Medicine for the Outdoors.** Paul S. Auerbach, M.D. (5th Edition). Mosby, Inc. (2009).

**The Outward Bound: Wilderness First-Aid Handbook.** Jeffrey Isaac, P.A.-C. The Lyons Press. (1998).

**Wilderness First Aid: Emergency Care For Remote Locations.** Howard D. Backer, M.D. American Academy of Orthopedic Surgeons. Jones & Bartlett Publishers (2005).

**Wilderness Medical Associates: Field Guide.** James Morrissey, NREMT-P, WEMT. (2nd Edition). Wilderness Medical Association. (1997).

**Wilderness Medicine: Beyond First Aid.** William W. Forgey, M.D. (5th Edition). The Globe Pequot Press. (2000).

## TESTIMONIALS

*"Even those outside the medical community, when faced with stabilizing an injury to an extremity, can use a SAM® SPLINT effectively. They require little training to use, they are simple to apply and most importantly they are effective. I always carry one in my emergency equipment. It is my method of choice for those infrequent situations when the need to stabilize a fracture is required."*

**Peter Kummerfeldt**

Renowned Wilderness Survival Expert/Trainer  
OutdoorSafe.com

*"This splint is pure genius...light and compact, yet strong and resilient. I keep one in my pack on every hike up to and back from Everest Base Camp. I won't leave home without it!"*

**Luanne Freer, MD, FACEP**

President, Wilderness Medical Society;  
Medical Director, Yellowstone National Park  
Director, Everest Base Camp Medical Clinic

## UPPER EXTREMITIES & NECK

Adjustable Cervical Collar Splint<sup>1</sup>

Dislocated Elbow Splint

Double Layer Wrist Splint

Finger Splint

Short Arm Wrist Splint

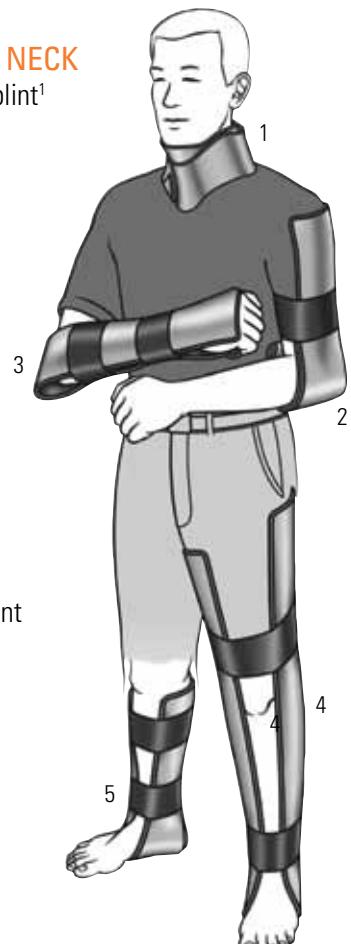
Sugar Tong Splint<sup>3</sup>

T-Beam Wrist Splint

Thumb Splint

Ulnar Gutter Splint

Upper Arm Splint<sup>2</sup>



## LOWER EXTREMITIES

Ankle Stirrup Splint<sup>5</sup>

Combo Ankle & Figure-8 Splint

Double Long Leg Splint<sup>4</sup>

Figure-8 Splint

Knee Immobilizer Splint

Single Long Leg Splint

## ABOUT SAM MEDICAL PRODUCTS



SAM Medical Products® is a developer and manufacturer of innovative medical products used for emergency, military, and hospital care. Our products include the widely used SAM® Splint, SAM Pelvic Sling™, Soft Shell® Splint, CELOX™ line of hemostatic agents, BursaMed® line of shear and friction relieving dressings, and Blist-O-Ban® blister prevention bandages. For more than 25 years, SAM Medical Products has represented innovation and quality to the medical professional. More information can be found on our website at [www.sammedical.com](http://www.sammedical.com).

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