For years patients have been significantly challenged with regaining range of motion after severe trauma and immobilization due to external fixation and limb-lengthening. Range of motion is lost along with the impact of functional use of the limb. Dynasplint Systems, Inc. has therefore adapted the product line to make an attachment to help these issues. The External Fixator Dynasplint® Systems are custom fit post-operatively for prevention and treatment of range of motion loss and deficits, specifically in limb-lengthening to hold the patient’s tissue at surgical lengthening.

The introduction of the Dynasplint® System to the external fixator technique is significant to both Dynasplint® and the orthopedic field. Dynasplint® Systems have employed low-load, prolonged-duration stretching, the same physiological principles as limb-lengthening which can greatly enhance the treatment and prevention of joint stiffness which is often times associated with limb-lengthening.

The longest period of low-force stretch to shortened connective soft tissue produces the least amount of tissue trauma and weakening. Consequently, this technique maintains the highest level of tissue integrity while producing the greatest amount of permanent lengthening of connective tissue. The final result is that range of motion in the joint is restored more quickly, safely and with less discomfort than any other means.
DYNASPLINT SYSTEMS, INC.

The pioneer and market leader in dynamic splinting since 1981, aids in restoring physical function and more importantly, quality of life, to patients with joint stiffness and limited range of motion caused by injury, trauma, surgery or disease.

Today, more than a quarter of a million patients have realized the benefits of Dynasplint® Systems. The key to its effectiveness is the low-load, prolonged-duration stretch (LLPS) technology that delivers a correct biological stimulus to create a permanent length change in shortened connective tissue and muscle. Dynasplint® Systems have been clinically proven to reduce range of motion and rehabilitation time by as much as 50%!

Experience, Reliability, Knowledge, Service, Support—Results. Stretch Beyond Your Expectations®

FEATURES AND BENEFITS

- LLPS (Low-Load, Prolonged-Duration Stretch) technology has been proven to successfully treat joint stiffness and limited range of motion
- Early application can reduce time and cost associated with range of motion rehabilitation
- Simple and adjustable bilateral tensioning system
- Biomechanically correct
- Comfortable to wear
- Attaches to most external fixator circumferential frames

COST EFFECTIVENESS OF THE DYNASPLINT® EX-FIX SYSTEM

It is extremely important to the success of the external fixation procedure that adequate range of motion to the involved joints be maintained throughout the entire procedure. It is possible that severe contractures could occur after this procedure resulting in the patient undergoing another surgery for manipulation. Additionally, adjustments to the apparatus including adding more rings or pins is possible. With the post-operative application of a low-load, prolonged-duration stretch delivered by the Dynasplint® System, a patient can receive an effective stretch to prevent such contractures. In addition, contractures not only delay the external fixation procedure but definitely increase the length of rehabilitation time.

In conclusion, the cost of the Dynasplint® System is minimal compared to the cost incurred due to contracture complications.

DYNASPLINT® SYSTEMS ARE AVAILABLE FOR THE FOLLOWING:

Knee Extension Tibial (KETA) – Adult, Pediatric
Knee Extension Femoral (KFFA) – Adult, Pediatric
Knee Flexion Tibial (KFTA) – Pediatric
Knee Flexion Femoral (KFFA) – Adult, Pediatric
Ankle Dorsiflexion Tibial (ADFA) – Adult, Pediatric
Elbow Extension Humeral (EEFA) – Adult, Pediatric
Elbow Flexion Humeral (EFHA) – Adult
Wrist Extension Forearm (WEFA) – Adult, Pediatric