



## **The Rotation Medical Rotator Cuff System**

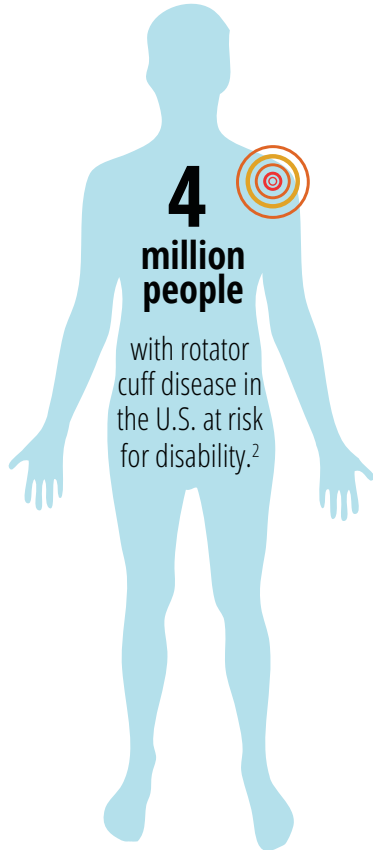
A new approach to treating  
rotator cuff disease

## Healthy Tendon



## Shoulder Pain

Rotator cuff disease is the most common cause of shoulder pain in adults. The rotator cuff is made of a group of tendons and muscles that surround the shoulder joint and keep the head of your upper arm bone firmly within the shoulder socket. The rotator cuff tendons provide stability to the shoulder; the muscles allow the shoulder to rotate. Damage to the rotator cuff can cause pain and significantly impact your activities and quality of life.



## Rotator Cuff Disease

Rotator cuff tendon disorders are among the most common cause of shoulder pain.

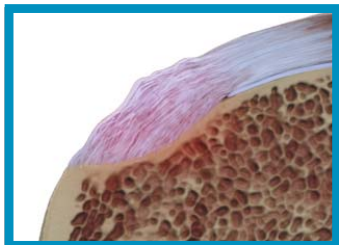
- An estimated four million people in the United States alone suffer from rotator cuff disease.
- Approximately 25% to 50% of U.S. adults over 40 years of age have a rotator cuff tear.

### Symptoms

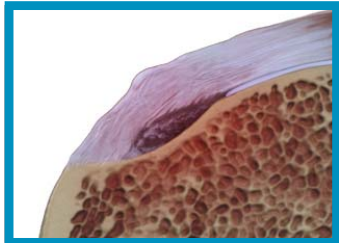
You may feel pain on the side and front of your upper arm and shoulder and experience difficulty sleeping on that shoulder. You may also find overhead movements painful. As the tear becomes larger you may notice weakness.

Until now, surgeons have had limited ability to address rotator cuff injury at earlier stages of degeneration. In addition, traditional rotator cuff repair procedures that involve suturing tendon to bone are associated with long rehabilitation, significant lifestyle interruption and variable outcomes. As a result, many people choose to forego surgery until pain is severe and range of motion is significantly impaired. However, as rotator cuff disease progresses, it can become increasingly difficult for your surgeon to treat.

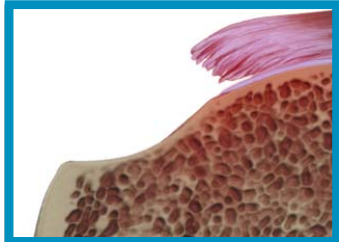
## Progression of Tears



**Tendinosis**



**Partial-Thickness Tear**

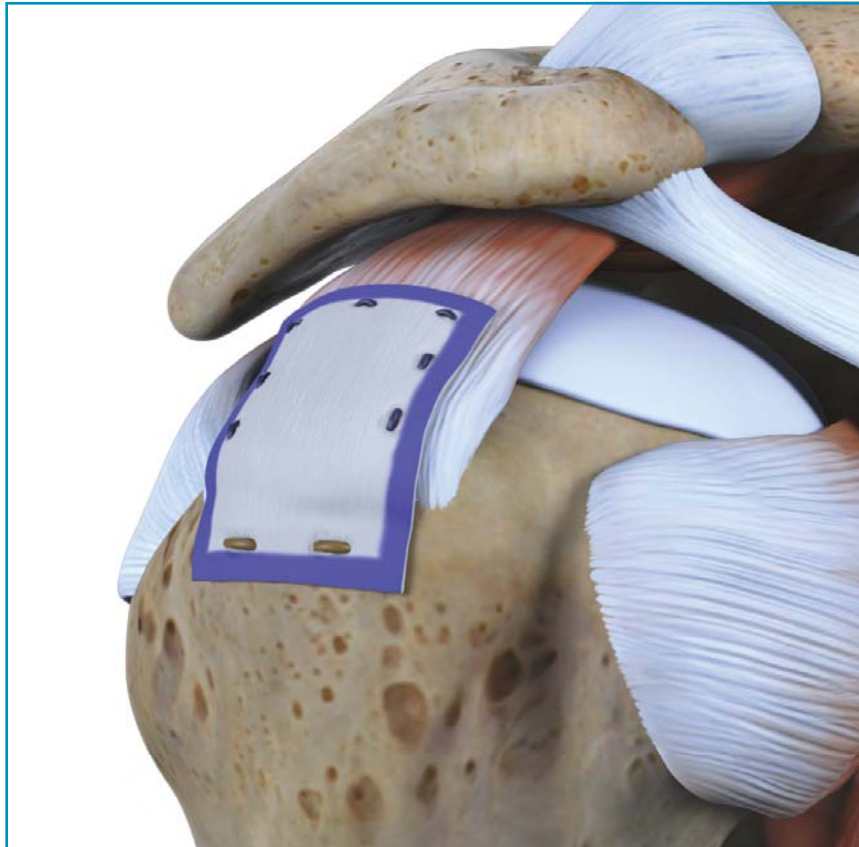


**Full-Thickness Tear**

## Why Did My Rotator Cuff Tear?

Rotator cuff problems are caused by a variety of factors including genetics, trauma, age or activity-related injury. The most common cause is a process called degenerative tendinosis.

As we age, our rotator cuff tendons wear out like a well-worn pair of jeans. These tendons are subject to stress and wear and have poor blood supply. Over time, the tendon becomes thinner and is more susceptible to tearing. As this degeneration progresses, rotator cuff tears can become increasingly larger and more painful.



## A New Approach: The Rotation Medical Rotator Cuff System

The Rotation Medical Rotator Cuff System is a new technology designed to improve the treatment of rotator cuff disease.

- The technology can be used in earlier stages of rotator cuff disease to slow progression of your rotator cuff disease. Addressing the injury earlier can shorten recovery time, reduce pain and improve quality of life. Intervening before a full tear has occurred may also decrease your chances of requiring traditional rotator cuff surgery.
- The technology can also be used in conjunction with traditional repair procedures to improve the tendon biology and decrease the chance of your rotator cuff tendon re-tearing.

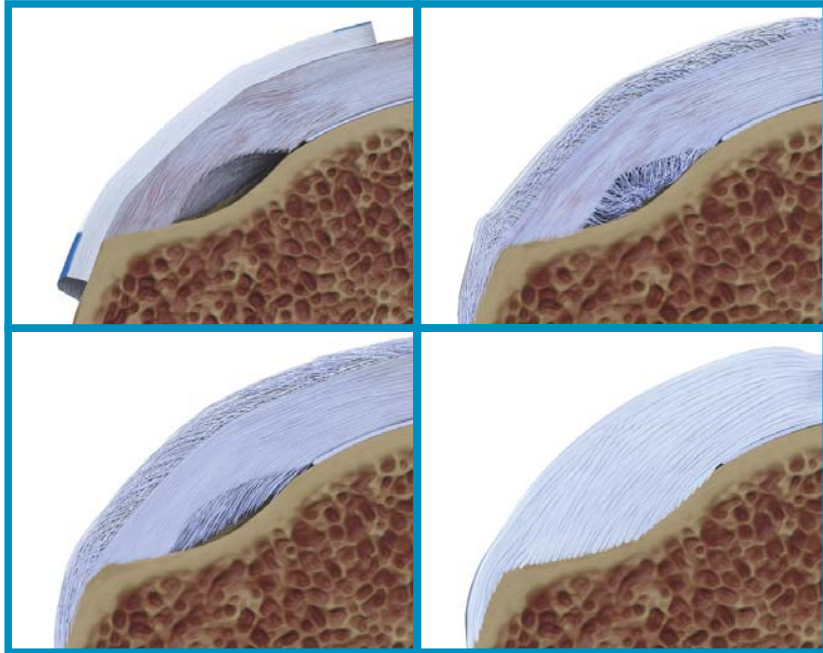
### What is it?

The technology includes a collagen based bioinductive implant about the size of a postage stamp. This implant is delivered arthroscopically through a small incision over the location of your rotator cuff tendon injury. Your physician will secure it in place with small staples.

## Progression of Healing

Day 1

6 Weeks



12 Weeks

Fully-Healed Tendon

## How does it work?

After implantation the bioinductive implant dissolves slowly. This implant has been shown in clinical studies to heal the tendon by inducing the growth of new tendon-like tissue, resulting in thicker tendons and replacement of tissue defects.

The new tissue growth occurs within weeks of implantation, enhancing the body's natural healing response and thickening the tendon to help restore good attachment of your tendon to your shoulder bone.

## How does the Rotation Medical Implant benefit you?

Depending on the stage of your rotator cuff disease, the Rotation Medical Rotator Cuff Repair System can potentially provide a range of benefits.

- shorter rehabilitation
- faster recovery
- potential to prevent or slow down disease progression
- decreased risk of developing a second degenerative tear

To learn more, visit [www.rotationmedical.com](http://www.rotationmedical.com) or call 844.746.2024.

