

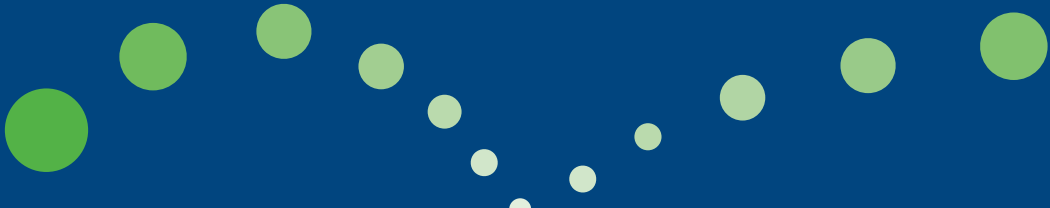
A photograph of a person's legs and feet walking on a paved path. The person is wearing white and grey sneakers with red accents. The background is a blurred green landscape.

Life
Uncompromised™

**The KineSpring® Knee Implant System
Patient Education Guide**

Understanding Osteoarthritis

This guide will answer some of your questions about osteoarthritis (OA) and how it can be treated. If you have any questions about OA or your specific treatment options, please consult with your doctor.





About Osteoarthritis

OA is a common condition that affects the joints. Also known as degenerative joint disease, OA leads to a breakdown of the joint's cartilage and often results in joint pain and loss of motion. OA often affects the knees, hips, hands, or back.

An estimated 35 to 40 million Europeans suffer from OA. The disease can affect young people, but is more common with age. More people in Europe are affected by arthritis than any other chronic medical condition.¹

1. The Orthopaedic Industry Annual Report: 2009-2010, Orthoworld.

About Knee OA

In OA, the joint surface begins to break down. Cartilage is the firm material at the bone ends that acts as a cushion against shocks. As the cartilage of an OA patient's joint wears away, the bone ends may begin to rub against each other, causing pain.



Normal Knee



OA Knee

Importance of Reducing Excess Joint Stress

OA may begin or progress if excess stress or load is placed on the knee joint.^{1,2} Several conditions can lead to excess stress or load on the joint, including anatomy, injury, or obesity. When too much load is placed on the knee, the progression of joint disease can lead to painful knee OA.^{3,4,5,6,7}

While drugs and certain cartilage repair procedures may temporarily relieve pain, they often do not treat the underlying problems that led to your OA. Conversely, research suggests that if the excess load on the joint is removed, your pain may decrease, and the natural joint tissues may demonstrate some recovery.⁸

1. Radin EL. Who gets osteoarthritis and why? An update. *J Rheumatol* 2005; 32:1136-8. 2. Block JA, Shakoor N. The biomechanics of osteoarthritis: implications for therapy. *Curr Rheumatol Rep* 2009; 11: 15-22. 3. Radin EL, et al. Role of mechanical factors in pathogenesis of primary osteoarthritis. *Lancet* 1972; 1:519-22. 4. Radin EL, et al. Response of joints to impact loading. *J Biomech* 1973; 6:51-7. 5. Radin EL, Rose RM. Role of subchondral bone in the initiation and progression of cartilage damage. *Clin Orthop Relat Res* 1986:34-40. 6. Burr DB, Radin EL. Microfractures and microcracks in subchondral bone: are they relevant to osteoarthritis? *Rheum Dis Clin North Am* 2003; 29: 675-85. 7. Lindsey CT, et al. Magnetic resonance evaluation of the interrelationship between articular cartilage and trabecular bone of the osteoarthritic knee. *Osteoarthritis Cartilage* 2004; 12: 86-96. 8. Radin EL, Burr DB. Hypothesis: joints can heal. *Semin Arthritis Rheum* 1984; 13:293-302.

Treatment Options for Knee OA

Your doctor will help you choose a treatment for your OA based on your symptoms, activity level, and other medical conditions. The goals of OA treatment include minimizing pain, restoring normal activity levels, and slowing disease progression.

Less Invasive :: Joint Preserving



Some treatments can reduce the stress on your knee and relieve OA pain, but these alternatives may involve highly invasive surgery (HTO, UKR, TKR). The KineSpring® Knee Implant System is designed to absorb excess knee loads while preserving your natural joint anatomy.

Joint Modifying :: More Invasive



HTO: High Tibial Osteotomy

UKA: Unicompartamental Knee Arthroplasty

TKA: Total Knee Arthroplasty



Dedicated

*to improving the standard of care
for patients with Osteoarthritis*



The KineSpring® Knee Implant System

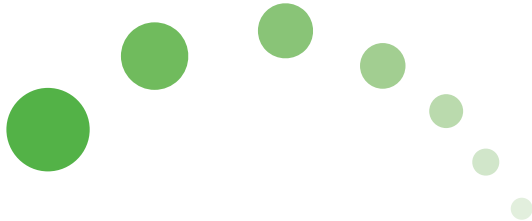
The KineSpring System is a joint preserving implant, uniquely designed to treat OA pain by absorbing excess load placed on your knee joint. By reducing the load supported by your diseased knee, the KineSpring System is intended to protect your cartilage while maintaining your joint's natural motion and structural integrity.

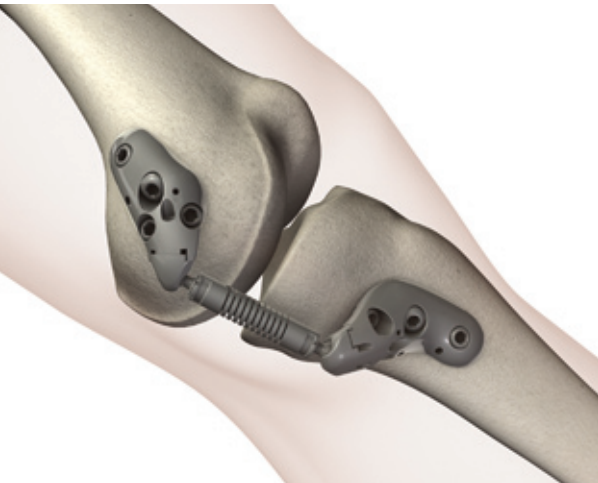
The KineSpring System was thoughtfully designed to create a slender device profile and avoid impinging on the tissues surrounding your joint.

The KineSpring® Procedure

The KineSpring System is implanted under the skin, alongside your knee joint. No bone, ligament, or cartilage is removed. The implant and procedure are specifically designed to facilitate your quick recovery while maintaining your future treatment options. The KineSpring System is intended to treat symptoms of pain and loss of function resulting from OA of the inner side of your knee.

The KineSpring System is implanted in your hospital's operating theatre, under general anaesthesia. The procedure requires two short incisions on the inside part of your leg, above and below your knee joint.





The KineSpring® Procedure

The KineSpring System is inserted through these incisions and secured with bone screws to your femur and tibia, the major bones in your upper and lower leg. No bone, ligament, or cartilage is removed. Your surgeon will take x-ray images to ensure that your KineSpring System is correctly positioned and functioning properly.

Who Are the Best Candidates for the Procedure?

Only a doctor can decide if you are a candidate for the KineSpring® System. To date, the KineSpring System has been successfully implanted in patients with a range of disease severity, activity levels, and ages.¹

1. Data on file at Moximed®, Inc.



What Can I Expect From the Procedure?

Your surgeon can help determine the best treatment course for your individual situation, depending on the severity of your disease and your desired activity level.

Patients in recent clinical trials of the KineSpring® Knee Implant System typically left the hospital after less than one week.¹ After your surgery, follow your surgeon's instructions and exercise program, and schedule your return to activity.

Early clinical results indicate high patient satisfaction, pain reduction, and functional improvement, but your surgeon can best determine specific expectations based on your condition.

1. Data on file at Moximed®, Inc.

Consult with Your Surgeon

Your surgeon will take necessary precautions to achieve a successful outcome, but every surgical procedure carries some element of risk. Specific questions and concerns about the KineSpring® System and procedure should be discussed with your surgeon.

Doctor Info:



*Dedicated to improving the standard of care
for patients with Osteoarthritis*

Moximed® International, Inc.

26460 Corporate Ave., Suite 100

Hayward, CA 94545

Office: +1.510.887.3300

Fax: +1.510.887.3499

info@moximed.com

www.moximed.com



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