

## A DEBILITATING DISEASE WITH A SUBSTANTIAL SOCIAL IMPACT.

Arthrosis of the knee is a chronic degenerative disease which occurs when the joint cartilage that covers the ends of the femur and tibia becomes thin thereby bringing these two bony surfaces into "contact". It is more common in the elderly (prevalently women) and overweight people although it can also affect younger people, especially if they do hard, repetitive sports activities, or a physically demanding job or have suffered previous knee injuries. This is a debilitating disease that involves taking large quantities of pain-relief medication and already affects millions of people around the world (and this figure is expected to rise by 40% by 2025 due the increase in the average age). **Orthoservice** wants to help to reduce the pain and discomfort experienced by so many patients with its new **OA** brace. Designed with state-of-the-art techniques and next-generation materials, this brace is an extremely comfortable and effective way to relieve pain plus it is very easy to put on, even for older people.



9000P0008PEN01.00318



## ORTHO-A

Knee brace for gonarthrosis

One size; right or left.

**RIGHT** = for medial gonarthrosis of the right knee (varus right knee) or for lateral gonarthrosis of the left knee (valgus left knee).

**LEFT** = for medial gonarthrosis of the left knee (varus left knee) or for lateral gonarthrosis of the right knee (valgus right knee).

### INDICATIONS

- Moderate unicompartmental gonarthrosis
- Postoperative care of cartilage or menisci

### CONTRAINDICATIONS

There are no known contraindications at this time.

**Headquarter: ORTHOSERVICE AG**  
Via Milano 7 - CH-6830 Chiasso (TI) - Switzerland  
info@orthoservice.com - www.orthoservice.com  
Tel. 0041 91 8220088 - Fax 0041 91 8220089

**Niederlassung Deutschland: Orthoservice Deutschland GmbH**  
Flugstraße 8 - D-76532 Baden-Baden - Deutschland  
Tel. 0049 (0)7221 9719780 - Fax 0049 (0)7221 9719782  
info@orthoservice.de - www.orthoservice.de

**Sede italiana: RO+TEN s.r.l.**  
Sede legale: Via Fratelli Ruffini, 10 - I-20123 Milano (MI) - Italia  
Sede operativa e amministrativa:  
Via Comasina, 111 - I-20843 Verano Brianza (MB) - Italia  
Tel. 0039 039 6014094 - Fax 0039 039 6014234  
info@roplusten.com - www.roplusten.com

Società soggetta a Direzione e Coordinamento (art. 2497bis CC):  
Orthoservice AG (CH) - 6830 Chiasso (TI) - Switzerland



www.orthoservice.com



## ORTHO-A

Knee brace  
for gonarthrosis

REF. 91014





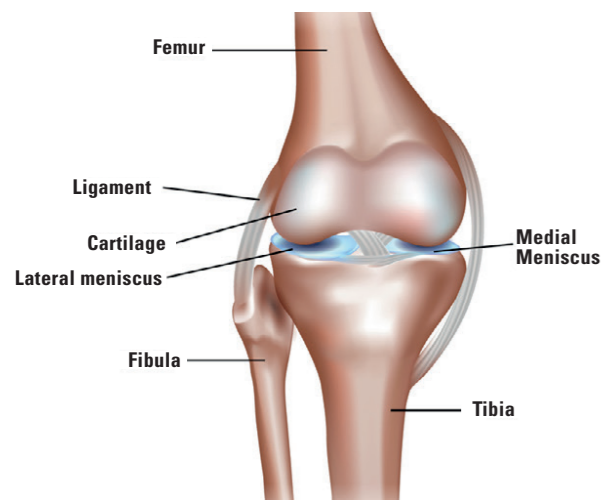
# APPLICATIONS

The breakdown and wear of cartilage in the tibiofemoral joint causes intense pain and a niggling feeling of stiffness in the joint. The pain causes people suffering from gonarthrosis to tend to involuntarily assume incorrect positions and in the long term this can have negative effects on the entire musculoskeletal system.

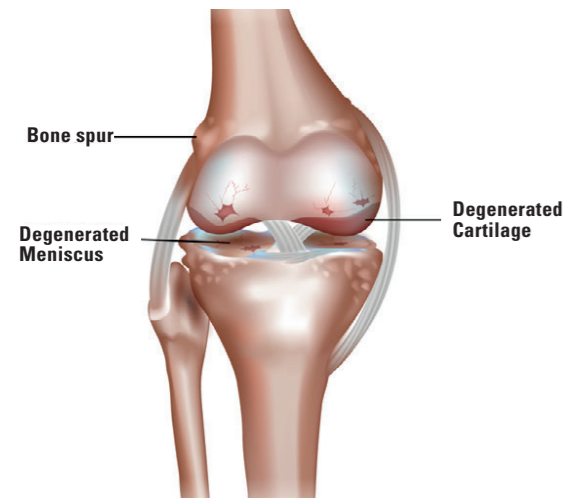
An orthopaedic surgeon will assess whether or not surgery (an osteotomy or joint replacement) is an option based on the gravity of the disease and on the patient's medical history. However, the conservative approach is also a valid alternative

and, even in cases in which surgery is inevitable, can offer the patient a period of relief from the symptoms and an appreciable reduction in the need to take anti-inflammatory medications.

In the case of unicompartmental gonarthrosis, the **Ortho-A** knee brace uses targeted pressure to help realign the joint, increasing the separation between the femoral condyle and the tibial condyle and "virtually" rebuilding the space previously occupied by the cartilage. With less weight now on the compromised compartment (medial or lateral), patients experience considerably less pain and stiffness.



NORMAL KNEE JOINT



OSTEOARTHRITIS



# A PAINFUL KNEE IS CRYING OUT FOR HELP. WE PROVIDE AN IMMEDIATE SOLUTION.

## AN INNOVATIVE LEVERAGE MECHANISM FOR UNICOMPARTMENTAL UNLOADING

The state-of-the-art mechanism enables the brace's condyle pad to be moved medially or laterally to create the right amount of "force" on the joint needed to correct its position. Not only can the position of the condyle pad be chosen to suit the patient, but the intensity of the "force" needed to realign the femur on the tibial condyle can also be adjusted. Just turn the key provided with the brace to calibrate the right position for the applied force.



## THERMOPLASTIC AND ALUMINIUM ALLOY

The brace uses two materials that work together in harmony: the aluminium alloy with a thermoplastic. Aluminium is renowned for its combination of extraordinary lightness and mechanical strength, workability, plasticity, non-toxicity, and excellent recyclability. The monolateral upright is made from aluminium and laterally or medially exerts targeted pressure on the knee joint thereby distancing the femoral condyle from the tibial condyle. Thermoplastics are also extraordinarily lightweight as well as having an elevated capacity to withstand static and dynamic loads, which is why a thermoplastic has been used for the thigh support and calf support. Two super-strong yet lightweight materials working together to facilitate joint realignment and pain reduction.



## PRACTICAL QUICK RELEASE BUCKLES

The brace is incredibly easy to put on and remove: each strap is fastened and tensioned with a lever. This innovative system offers two advantages: the straps are adjusted to the correct length the first time the patient dons the brace and these adjustments are never lost; the straps always have just the right amount of tension without the need to apply any force, which is an ideal solution for elderly people or those with reduced strength in their arms.



## WEDGED JOINT FOR ADJUSTING FLEXION AND EXTENSION

The monolateral upright features a joint into which wedges can be inserted to limit flexion and extension to the degree prescribed by the orthopaedic surgeon.

## FOUR NUMBERED PADDED STRAPS

The straps on the thigh support and the calf support are numbered from one to four to indicate the correct order in which to fasten them. The calf is a very dynamic area in terms of muscle movement, so the straps feature a silicone coating to prevent them from slipping.



## FOAM PADDING

Soft and comfortable against the skin, the padding can be easily removed and washed in lukewarm water. Hypoallergenic, the padding is also designed to remain securely in place, and is covered with new, super-soft velour.

