

## DONJOY®

# Orthopedic Report on the ROAM™ OA Knee Brace

Summary of the results of a patient feedback study by Dr. R. Berg (Jan 2024, Germany)\*

## **PURPOSE & METHODS**

A clinical evaluation of the user-friendliness and functional suitability of the ROAM™ OA knee brace was conducted over six weeks on 10 patients (6 men and 4 women, aged 19 to 68). Patients with moderate-to-severe knee OA (Grades 2-3 on the Kellgren-Lawrence scale) were selected and fitted, and their feedback on the device was recorded. At the end of the 6-week treatment period, the patients answered a questionnaire concerning the brace's comfort, ease of use, and functionality.

#### **PRODUCT SPECIFICATIONS**

#### **Indications**

The ROAM OA knee brace was indicated for the following conditions:

- Moderate to severe unicompartmental knee osteoarthritis
- Post-operative meniscal repair only where unicompartmental unloading is indicated
- Varus-valgus conditions that may benefit from unicompartmental unloading

#### **PRODUCT DESCRIPTION**

The ROAM OA knee brace is a functional framed orthosis manufactured by Enovis™ under its DonJoy® brand. It is designed to stabilize the knee joint while allowing for adjustable relief of the medial or lateral compartment. Key features include:

- Anatomically shaped, low-profile aluminum upright for stability and comfort
- · BOA®\*\* adjustment dial for varus/valgus angle customization
- · Three adjustable straps for secure fit
- · Breathable, skin-friendly liners for comfort
- Available in six sizes for both knees and for varus/valgus pressure relief
- Range of motion (ROM) hinge for customizable flexion and extension angles

#### **TECHNICAL DESIGN**

- Low-profile aluminum upright for anatomical adjustment.
- Adjustable straps and magnetic fasteners for secure fit.
- · Light, modern materials (aluminum) ensure rigidity and minimal weight.
- · Breathable, skin-friendly liners are easy to clean and maintain

#### **MECHANISM OF ACTION**

The orthosis employs a 3-point system to counteract varus and valgus forces, stabilizing the knee joint. Its aluminum upright is adjustable to match the joint's anatomical shape, minimizing constraining forces.

### **RESULTS**

### **Patient Feedback**

Patients reported ease of use and high comfort levels. Key points included:

- · Easy application and adjustment of varus/valgus settings.
- · Secure fit due to strap design.
- · Pleasant wearing sensation from breathable liners.
- · Minimal interference with daily activities due to the slim design.
- · High acceptance level throughout treatment.

#### Side Effects

· No adverse effects or complications reported during the study. Potential side effects are outlined in the user manual.

#### **SUMMARY AND CONCLUSION**

The newly designed ROAM™ OA knee brace with simplified adjustment process was able to improve the ease of use and comfort, leading to a high patient acceptance. This makes the brace a useful aid to physiotherapeutic treatment while also enhancing patient reintegration into daily activities and work.

Based on the positive results of this study, the ROAM OA knee brace can be recommended as a suitable therapeutic aid for continued use and broader application in post-surgical and conservative knee joint treatments.

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