

KNEE KINESIOGRAPHY

Case example: **MENISCUS**

Patient: Soccer Player Knee(s): Right Knee

Established diagnosis on file: Lateral Meniscectomy

Reason of consultation: Chronic lateral effusion and pain with re-injury

Athlete's Goals: Return to professional sport performance, manage reinjury risks and symptoms, minimize progression of cartilage degeneration

BIOMECHANICAL MARKERS: Results

Lateral compartment and patellofemoral compartment

Valgus thrust during loading

Valgus static functional lower limb alignment

Valgus alignment at initial contact

Valgus alignment during stance

Negative (0.5°)

Positive + (Valgus -7.7°)

Positive (Valgus -8.2°)

Positive + (Valgus -8.7°)





IMPRESSION

A large amplitude of static valgus alignment, increased dynamically

· Loads the lateral compartment — can lead to cartilage degeneration and risk of long-term OA

THERAPEUTIC PROGRAM

Athlete was educated on his biomechanical dysfunctions and given TARGETED neuromuscular retraining exercises as a home program





PATIENT SPECIFIC INFORMATION LEADS TO BETTER FUNCTIONAL OUTCOMES!

PATIENT OUTCOMES POST THERAPEUTIC PROGRAM

- Opnamic biomechanics linked to improved functional outcomes
 - Frontal plane alignment improved, thus reducing compressive loads on the lateral compartment
- Sports performance
 - Athlete signed with a club in Europe and maintains play at the professional level 3.5 years later

Personalized program
available for your patient
via an online platform
with detailed explanations
and videos to educate the
patient on how to restore
their function







Patient name: KneeKG Patient ID: 00123 Right knee - Comfortable walking (2.6 m/h)

KneeKG® Biomechanical Markers Report

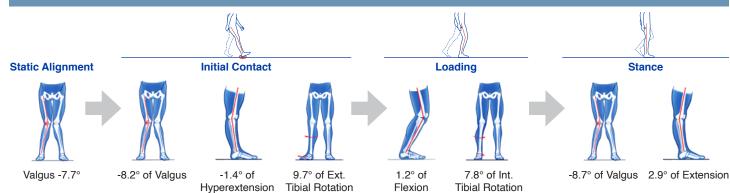
Date: YYYY-MM-DD KneeKG evaluator

during loading

Diagnostic information on file: No Diagnostic

Biomechanical markers	Results YYYY-MM-DD	Follow up date	Comparison
Medial compartment and femoparatellar			
<u>compartment</u>			
Varus thrust during loading	Negative (0.9°)		
Varus static functional lower limb alignment	Negative (Valgus -7.7°)		
Varus alignment at initial contact	Negative (Valgus -8.2°)		
Varus alignment during stance	Negative (Valgus -8.7°)		
Lateral compartment and femoropatellar compartment			
Valgus thrust during loading	Negative (0.5°)		
Valgus functional lower limb alignment	Positive + (Valgus -7.7°)		
Valgus alignment at initial contact	Positive (Valgus -8.2°)		
Valgus alignment during stance	Positive + (Valgus -8.7°)		
Femoropatellar compartment			
Dynamic knee contracture in flexion at heel strike	Negative (-1.4° of extension)		
External tibial rotation at initial contact	Positive + (9.7°)		
<u>General</u>			
Knee in extension at initial contact	Positive (hyperextension -1.4°	")	
Limited flexion excursion during loading	Positive + (1.2° of flexion)		
Limited extension movement during stance	Positive (2.9° of extension)		
Internal tibial rotation movement during loading	Positive + (7.8°)		
Tibia internally rotated in relation to the femur	Negative		

PATIENT SPECIFIC DYNAMIC ALIGNMENT



Negative

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