KNEEKG SYSTEM RESULTS COUPLED WITH THE EMOVI PORTAL SOLUTION KNEEKG APP+*

KneeKG®

KNEE | KINESIOGRAPHY

Case example: OA

Patient: **60-years old**
Knee(s): **Right Knee**

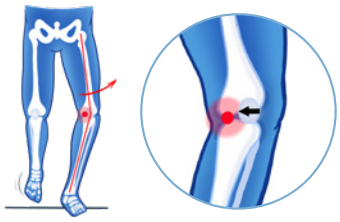
Established diagnosis on file: Moderate/Severe OA; pain over Medial Tibiofemoral and Patellofemoral joints

Reason of consultation: Scheduled for Uni-Compartmental knee replacement; reduce pain and prepare for surgery

BIOMECHANICAL MARKERS: Results

Medial compartment and patellofemoral compartment

Varus thrust during loading	**Positive (3.0˚)**
Varus static functional lower limb alignment	Negative (Neutral -0.9˚)
Varus alignment at initial contact	Negative (Varus 1.4˚)
Varus alignment during stance	**Positive (Varus 2.2˚)**



IMPRESSION

Neutrally aligned knee with a Varus thrust during loading; returns toward neutral at stance

- Loads the medial compartment leading to medial OA progression

THERAPEUTIC PROGRAM

Patient was educated on her biomechanical dysfunctions

1. Given TARGETED neuromuscular retraining as a home program
2. Knee brace

1. Therapeutic corrective: Varus Thrust

⇢ Varus thrust control-Loading

2. Type of knee brace: Stabilizing brace

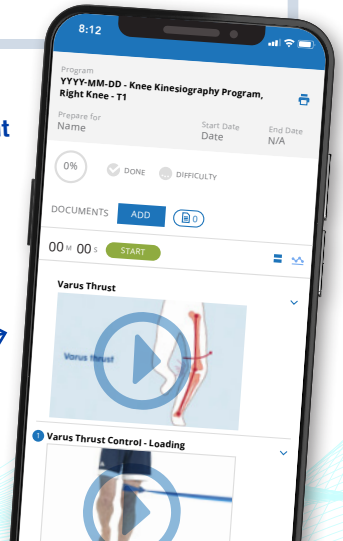
⇢ Encourage neutral alignment during initial contact and loading (when the varus thrust occurs)

PATIENT SPECIFIC INFORMATION LEADS TO BETTER FUNCTIONAL OUTCOMES!

PATIENT OUTCOMES POST THERAPEUTIC PROGRAM

- **Dynamic biomechanics linked to improved functional outcomes**
  - Addressed the objective biomechanical marker and root cause of her Osteoarthritis
- **Postponed surgery**

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



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KNEE KINESIOGRAPHY

Patient name:
KneeKG Patient ID: 00123
Right knee - Comfortable walking (2.0 km/h)

KneeKG® OA Report

Date: YYYY-MM-DD
KneeKG evaluator
Diagnostic information: **No osteoarthritis diagnostic on file**

Presence of mechanical risk factors linked to knee OA	Results YYYY-MM-DD	Follow up date	Comparison
Medial compartment and femoparatellar compartment			
Varus thrust during loading[1-4]	**Positive** (3.0°)		
Varus static functional lower limb alignment[100]	Negative (Neutral -0.9°)		
Varus alignment at initial contact[101]	Negative (Varus 1.4°)		
Varus alignment during stance[101]	**Positive** (Varus 2.2°)		
Lateral compartment and femoropatellar compartment			
Valgus thrust during loading[3]	Negative		
Valgus functional lower limb alignment[102, 104]	Negative (Neutral -0.9°)		
Valgus alignment at initial contact[103,105]	Negative (Varus 1.4°)		
Valgus alignment during stance[103,105]	Negative (Varus 2.2°)		
Femoropatellar compartment			
Dynamic knee contracture in flexion at heel strike[15]	Negative (9.5° of flexion)		
External tibial rotation at initial contact[16-18]	Negative (0.7°)		
General			
Tibia internally rotated in relation to the femur during loading[20,21]	**Positive**		
Body Mass Index (BMI) > 25[9,22,23,34]	**Positive** (BMI=29.3)		

PATIENT SPECIFIC DYNAMIC ALIGNMENT