KneeKG® PRO

EMOVI
AI POWERED SOLUTIONS

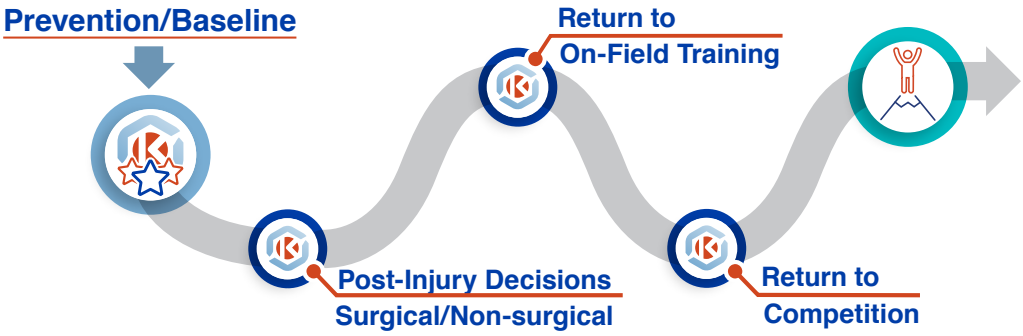
ADVANCE CLINICAL DECISION-MAKING WITH KNEEKG PRO

Because the Cost of Sitting on the Sidelines is Too High!

BETTER DATA ⇨ **BETTER DECISION** ⇨ **HEALTHY ATHLETES ON THE FIELD**

OPTIMIZE YOUR ATHLETES' KNEE HEALTH

- Build baselines for all athletes pre-season to help maintain knee health throughout the season
- Support the athlete's return to full performance with reduced pain and instability
- Identify biomechanical markers that may be precursors to injury, thus helping to keep athletes healthier and on the field



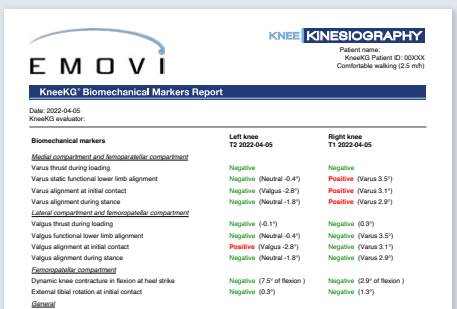
KNEEKG PRO A COMPETITIVE EDGE FOR KNEE HEALTH

From baseline to return to competition

Unlike video analysis, inertial sensors and GPS based tracking devices, **KneeKG's precision** has proven **high accuracy**[1] providing objective, **dynamic data** to aid clinical decision-making. Class II Medical Device FDA Cleared, Health Canada and CE Marked.

DATA GENERATED IMMEDIATELY ON-SITE, WHEN AND WHERE YOU NEED IT MOST!

Report showing results comparing left/right and over time



EMOVI — KNEE KINESIOGRAPHY

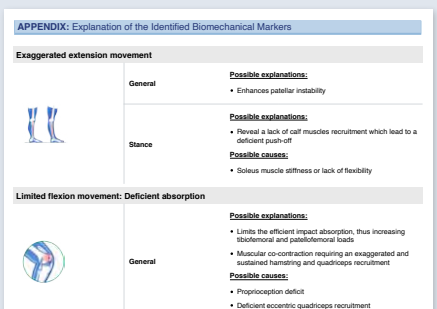
Patient name:
KneeKG Patient ID: 00XXX
Comfortable walking (2.5 m/h)

KneeKG® Biomechanical Markers Report

Date: 2022-04-05
KneeKG evaluator:

Biomechanical markers	Left knee T2 2022-04-05	Right knee T1 2022-04-05
Medial compartment and femoropatellar compartment		
Varus thrust during loading	Negative	Negative
Varus static functional lower limb alignment	Negative (Neutral -0.4°)	Positive (Varus 3.5°)
Varus alignment at initial contact	Negative (Valgus -2.8°)	Positive (Varus 3.1°)
Varus alignment during stance	Negative (Neutral -1.8°)	Positive (Varus 2.9°)
Lateral compartment and femoropatellar compartment		
Valgus thrust during loading	Negative (-0.1°)	Negative (0.3°)
Valgus functional lower limb alignment	Negative (Neutral -0.4°)	Negative (Varus 3.5°)
Valgus alignment at initial contact	Positive (Valgus -2.8°)	Negative (Varus 3.1°)
Valgus alignment during stance	Negative (Neutral -1.8°)	Negative (Varus 2.9°)
Femoropatellar compartment		
Dynamic knee contracture in flexion at heel strike	Negative (7.5° of flexion)	Negative (2.9° of flexion)
External tibial rotation at initial contact	Negative (0.3°)	Negative (1.3°)
General		

Explanations of pain-related causes and symptoms



APPENDIX: Explanation of the Identified Biomechanical Markers

Exaggerated extension movement

General
Possible explanations:
- Enhances patellar instability

Stance
Possible explanations:
- Reveal a lack of calf muscles recruitment which lead to a deficient push-off

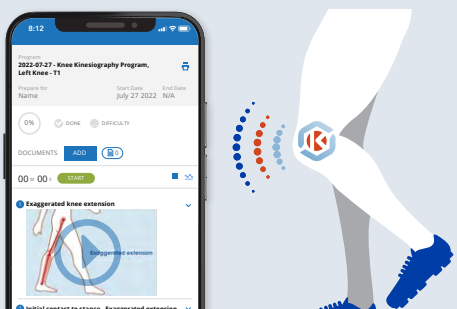
Possible causes:
- Soleus muscle stiffness or lack of flexibility

Limited flexion movement: Deficient absorption

General
Possible explanations:
- Limits the efficient impact absorption, thus increasing tibiofemoral and patellofemoral loads
- Muscular co-contraction requiring an exaggerated and sustained hamstring and quadriceps recruitment

Possible causes:
- Proprioception deficit
- Deficient eccentric quadriceps recruitment

Target program to restore function



KneeKG® PRO

OUR VISION

To deliver relevant athlete-specific actionable data to medical professionals working with elite athletes through advanced technology, accelerating decision-making and empowering the medical team to better envision solutions for their athletes.

OUR GOAL

To help sports teams to keep their athletes on the field and performing at their best. Emovi prioritizes short- and long-term knee health and safety.

CONCIERGE PRO SPORTS PACKAGE

- Onsite testing of your athletes pre- and post-season*
- Electronic reports regarding each athlete's bilateral test
- Follow-up Zoom meeting to review and consult on action plans
- In-season Zoom consultation with our experts, as requested by your team

ALSO AVAILABLE

- In-season injury testing, including Zoom consultations to discuss results**
- Value pricing for multi seasons contracts

EMOVI PROVIDES A VALUE-BASED SERVICE

Giving your Team a Technical Advantage with our AI-Powered KneeKG PRO Service

Athlete case examples, scan here ⬇

Lateral Meniscal Tears

Unhappy Triad

EMOVI®
AI POWERED SOLUTIONS

www.emovi.ca

CONTACT US!

For more information contact us at
kneekgpro@emovi.ca

* For pre/post season testing, pricing includes operating expenses, such as travel, shipping, etc. A minimum of 20 athletes must be tested.

***For in-season injury testing or any testing not done during pre/post testing visits, operating expenses will be calculated separately. A full quotation of services will be provided.*

1. KneeKG lower-limb alignment correlates to both robotic assisted system and long film X-Ray measurements 10= Deroche, E., et al. Arch Orthop Trauma Surg 142, 1645–1651 (2022)