

Evidence-based care¹

Patient satisfaction and positive outcomes²

Value to patient and practice²

A Technological Edge in Decision-Making to better CORRECT KNEE ALIGNMENT AND RESTORE 3D KNEE FUNCTION







THE FIRST

Technology to Accurately Measure 3D

Dynamic Alignment that Delivers Objective Data

(FDA Cleared, Health Canada and CE Marked Class II Medical Device)*



ACCURACYNow at your Fingertips!

KneeKG, proven¹ high accuracy to assess 3D function

KneeKG lower-limb alignment correlates with alignments from both robotic assisted system and long leg standing X-ray⁵



Knee Kinesiography Prevention



 Prevention of Disease Progression³

Kinesiography

Knee

 Better Function In = Better Function Out⁴

Surgical Decision

- Maintenance Care
- Follow-Up
- Prevention of Revisions and Further Injuries







Increasing

EFFICIENCY AND EFFICACY OF YOUR TOTAL JOINT PROGRAM

for Surgical and Non-Surgical Candidates

3D Dynamic Malalignment is Linked to:

- Poor patient reported symptoms⁶
- Poor outcomes (surgical and non-surgical interventions)⁷
- Bone marrow lesions⁸
- Patient dissatisfaction⁷

• 5Y Contribution Margin: **\$1M-\$2M**

- Y1 #Uses: **650**; Yearly growth: **10%**
- Reimb: \$220-\$400 > Range based upon payer reimbursement rates reported by customers

Back to performance

Diagnosis

"KneeKG helped me better understand my knee pain and generate a personalized treatment plan, which allowed me to be the same athlete I was before my injury."

- Alessandro Riggi Professional Soccer Player

Knee osteoarthritis

"I changed my standard exercises for the specific plan recommended, my knee pain went from 10/10 to 0 and I am now back to my activities"

- Bruny Surin
Olympic Gold Medalist, 4x100m



Painful knee post surgery

"KneeKG started me down a whole new path!

It was so good to finally learn why I was experiencing pain and have an action plan. If only I had access to KneeKG long ago, I believe I could have avoided many painful months and been so much further along in my recovery."

- Harry

"Helps us to establish new business relationships with physicians and surgeons.

More patients, but more importantly, more happy patients and providers is of the utmost importance to us."

- Luis Zuniga, Owner, Fyzical Therapy & Balance Centers, Texas. "A diagnostic-aid tool that fills the need for objective and dynamic information about the fully loaded, articulating knee."

- Dr Michael Suk, MD, JD, MPH, MBA, FACS, Professor and Chair, Geisinger Musculoskeletal Institute

"KneeKG is very helpful in helping us slow the progression of the knee OA disease, but also treating ACL injuries, anterior knee pain and post operative residual pain."

- Dr Ranjan Sachdev, MD, FAAOS,MBA,CHC Member of the International Cartilage Regeneration and Joint Preservation Society



"Restoring function via surgery requires much more information than what we currently have. Having more objective information just make sense."

- Dr Michael A. Mont, MD Board-certified in Orthopedic Surgery; Fellow, American Academy of Orthopaedic Surgeons

"The perfect complement to static information derived from X-ray and MRI, providing actionable data on the knee in motion."

> - Dr Ian Kurth, Radiology Associates of Wausau

ENHANCE YOUR PRACTICE NOW



Knee Kinesiography: BETTER INFORMATION. BETTER DECISIONS."

Report showing results to correct with ability to compare over time

Pre and Post Total Knee
Remplacement (4 months)

Pre and Post Total Knee
Remplacement (4 months)

Mediat consonatinate

Minus frout during backing**

Variar shorted variety of supplied to the post of the post o

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 call muscles recruitment which lead to a deficient push. Possible causes: Soleus muscle stiffness or lack of flexibility
Limited flexion movement: Deficient absorption		
	General	Possible explanations: Limits the efficient impact absorption, thus increasing stockmout and patient femoral loads Macucular co-contraction requiring an exaggerated and sustained harmstring and quadriceps recruitment Possible causes: Proprioception defloit Deficient economic quadriceps recruitment

Improved patient management with home exercise program and objective results



AAOS Guidelines 2021

When integrated in patient education, Knee Kinesiography with the KneeKG system provides statistically significant and clinically superior improvements compared to the results obtained with current standard of care (Cagnin et al. 2020)², as recognized in the practice guidelines published by the American Association of Orthopaedic Surgeons (AAOS), which guidelines are also endorsed by the American Association of Hip and Knee Surgeons (AAHKS)⁹

About Emovi

We provide actionable intelligence to the orthopedic community. Emovi's KneeKG solution is the first technology to accurately measure the 3D dynamic alignment of the knee. It provides objective data, aids surgeons in their decision-making to correct knee alignment and restore 3D knee function. Our goal is to increase the efficiency and effectiveness of knee joint programs, improve the patient experience, advance population health, enhance the provider experience and contribute to lowering the costs for all statekeholders. ¹⁰

- *The KneeKG* system is FDA (510k) cleared, Health Canada licensed and CE Marked, to assess the 3D motion of the knee of patients who have impaired movement functions of an orthopaedic cause.
- *** Because this information does not purport to constitute any diagnostic or therapeutic statement with regard to any individual medical case, each patient must be examined and advised individually, and this information does not replace the need for such examination and/or advice in whole or in part. Emovi does not practice medicine. Each physician should exercise his or her own independent judgment in the diagnosis and treatment of an individual patient, and this information does not purport to replace the comprehensive training physicians have received.
- 1. Lustig S, et al. The KneeKG system: a review of the literature. <u>Knee Surg Sports Traumatol Arthrosc. 2012 Apr; 20(4):633-8.</u>
- Cagnin, A. et al. A multi-arm cluster randomized clinical trial of the use of Knee Kinesiography in the management of osteoarthritis patients in a primary care setting. <u>Postgrad Med. 2020 Jan;132(1):91-101</u>.
- D'Souza N, et al. Are biomechanics during gait associated with the structural disease onset and progression of lower limb osteoarthritis? A systematic review and meta-analysis. <u>Osteoarthritis Cartilage</u>. 2022 Mar;30(3):381-394.
- Tungtrongjit Y, et al. The effect of preoperative quadriceps exercise on functional outcome after total knee arthroplasty. <u>J Med Assoc Thai. 2012 Oct;95 Suppl</u> 10:S58-66.
- 5. <u>10= Deroche, E., et al. Arch Orthop Trauma Surg 142, 1645–1651 (2022)</u>
- Hagemeister N, et al. Associations between biomechanical markers from a Knee Kinesiography exam and patient outcome measures: a comprehensive review.
 Osteoarthritis&Cartilage. 2022. V30-S1; S135.
- Planckaert, et al. (2018). Total knee arthroplasty with unexplained pain: new insights from kinematics. <u>Arch Orthop Trauma Surg.</u> 138(4):553-561. Larose, et al. (2019). Can total knee arthroplasty restore the correlation between radiographic mechanical axis angle and dynamic coronal plane alignment during gail? <u>Knee. 26(3):586-594</u>.
- Wink A.E., et al. (2017). Varus thrust during walking and the risk of incident and worsening medial tibiofemoral MRI lesions: the Multicenter Osteoarthritis Study. Osteoarthritis and Cartilage. 25(6): 839–845.
- American Academy of Orthopaedic Surgeons Management of Osteoarthritis of the Knee (NonArthroplasty) Evidence-Based Clinical Practice Guideline. https://www.aaos.org/oak3cpg Published 08/31/2021.
- 10. https://www.milliman.com/en/insight/knee-osteoarthritis-in-a-commercially-insured-population





Contact us for more information: info@emovi.ca • 1-866-707-0866 www.emovi.ca