KneeKG™ (by Emovi, Inc.) is a novel, regulatory cleared* in-clinic assessment tool used to conduct a Knee Kinesiography, which evaluates knee functional deficiencies linked to patients' current symptoms or future orthopaedic disease progression.

1. X-rays and MRIs can inform clinicians about the structure of the joint; however, a patient's pain is correlated with dynamic movement patterns, not static imaging¹. Obtaining a functional knee assessment is key to understand the root cause of a patient’s symptoms.

2. The KneeKG™ evaluates knee function by identifying biomechanical markers associated with pain, injury, and risk for future orthopaedic impairments. These markers are extracted from the 3D kinematics of the knee and include flexion/extension, varus/valgus, internal/external tibial rotation.

3. The KneeKG™ is to the knee, what the EKG (electrocardiogram) is to the heart. It provides objective information about knee joint function, and does not rely on a subjective interpretation of movement patterns. It allows the clinician to develop a patient-specific treatment plan to address the deficits identified during the examination.

4. Use of the KneeKG™ as part of clinical care produces statistically significant and clinically meaningful improvements that are superior to standard of care³.

   Clinical trials have shown:
   - Reduce pain
   - Improve function
   - Increase patient satisfaction (84%)⁴
   - Enhance adherence to treatment (88% after 3 months)³
   - Reduce biomechanical markers that are risk factors for osteoarthritis progression (varus-thrust)²

KneeKG™ is FDA Cleared (510k), Health Canada Licensed and CE Marked.
THE KNEEKG™ CAN PLAY AN INTEGRAL ROLE IN THE MANAGEMENT OF PAIN DUE TO ORTHOPEDIC CONDITIONS, INCLUDING OSTEOARTHRITIS, ANTERIOR KNEE PAIN, LIGAMENT INJURIES AND OTHERS.

Proven treatment results with KneeKG™ as parts of the clinical care pathway:

TREATMENT RESULTS FOR KNEE PAIN

- Decreased knee pain
- Improved function
- Less pain medication
- Delayed the need for arthroplasty surgery
- Better adherence to treatment plan

KNEE KINESIOGRAPHY

A Knee Kinesiography with KneeKG™ is a brief in-clinic exam that accurately and objectively assesses movement of the knee while the patient walks on a conventional treadmill. It is to the knee what the electrocardiogram is to the heart – demonstrating exactly how the joint is functioning.

The computerized assessment provides data about dynamic alignment and other mechanical deficits to help understand the patient’s knee pain and symptoms. The exam provides insight into the causes of knee symptoms in patients with knee osteoarthritis, ligament injuries, anterior knee pain and other knee problems, including residual pain after joint surgery.

Use of the KneeKG™ has been proven to increase adherence and compliance with the treatment plan, and has improved patient and provider satisfaction with medical care. Additionally, by enabling a more efficient, personalized approach, it has led to reduced pain and increased function.

Knee Kinesiography can also be used with athletes to understand mechanical deficits and allow the healthcare professional to develop appropriate exercise programs.

References:


Results demonstrates:

- Decrease % of patient reporting regular NSAID intake (≥2 times/day) from 60% to 30% and regular analgesic intake (≥3 times/day) from 71% to 47%.
- Decrease absenteeism (initially 12 patients reported a mean of 20 work days missed vs a mean of 9 work days missed by 10 patients at follow up).
- 7/11 surgical patients postponed their surgery.