



PRESS RELEASE  
*For immediate release*

**The KneeKG™ system:**  
**An “electrocardiogram” for the knee now more accessible  
for health professionals**

**Laval, May 17, 2010** — A larger number of health professionals can now access the KneeKG™, a revolutionary new tool that assesses the biomechanics of the knee. In addition to being available at the Centre du genou Emovi, the KneeKG™ system is now also available at the Action Sport Physio clinic in downtown Montreal in collaboration with Emovi's medical team of orthopedists and doctors specializing in musculoskeletal problems. Health professionals can therefore refer patients with osteoarthritis, tendonitis or ligament or meniscal injuries to this clinic to optimize diagnoses or treatment plans thanks to the unique data that this system provides on the condition of the knee in motion.

**Analyzing the knee in motion to improve case management**

The KneeKG™ is a new non-invasive, reliable, and validated test that evaluates the biomechanical function of the knee for active patients. This diagnostic tool is meant specifically for patients with knee pain due to mechanical factors or an unknown cause. The exam helps reveal the root of knee problems stemming from such pathologies as patellofemoral syndrome, ligament lesions, the onset of osteoarthritis, or tendonitis. This test helps health professionals understand the biomechanical problem, focus their investigation, direct treatment, and pinpoint when and why patients should be referred to a specialist.

**Unique and valuable information for doctors**

Currently, knee exams are mainly performed through medical imaging such as X-rays and magnetic resonance imaging (MRI). These tests have their limits, however, as they only provide static images. The KneeKG™ performs a 3D, real-time analysis of the knee in motion, all while the knee is bearing a load. Although the KneeKG™ does not replace X-ray or MRI tests, it does give doctors new data that allows them to better understand the causes of movement-related symptoms. “With this technology, we can identify difficult biomechanical problems that are sometimes difficult to see with other tests currently available. The test helps doctors identify the causes of pain and better direct additional investigation, if necessary, and possible treatments. Eventually we might potentially delay, or even avoid, surgery thanks to first-line treatment that is better focused and that prevents the patient's condition from deteriorating,” said orthopedic surgeon Dr. Guy Grimard. “Doctors now have another tool in their treatment arsenal,” added Dr. Grimard.

**An “electrocardiogram” for the knee**

Developed by the team of Jacques de Guise, Researcher at the CRCHUM, Director of the Laboratoire de recherche en imagerie et orthopédie, and Professor at the ÉTS, the KneeKG™, or Knee Kinematic Graphic, is like an electrocardiogram for the knee. It is made up of a harness equipped with electromagnetic motion sensors. Attached to the tibia and femur, it gives precise information on the joint mechanics of the knee in all of its axes as the patient walks on a treadmill or performs squats.

This technology has been certified by Health Canada and the U.S. Food and Drug Administration.

### **Getting the exam**

Two clinics currently offer the KneeKG™ exam along with comprehensive reports:

- Centre du genou Emovi, 3095 Laval Autoroute West, 2nd floor, Laval, QC, 514-907-6296
- Action Sport Physio, 4150 Sainte-Catherine Street West, Suite 400, Westmount, QC, 514-939-1444

The cost of the exam is covered by a number of insurance companies based on the patient's particular insurance plan.

### **About Emovi**

Emovi is a Quebec company that provides medical solutions specifically designed for the knee. With its Quebec-based university research partners, such as the CRCHUM and the École de technologie supérieure, Emovi developed the KneeKG™, a clinical tool that is unique in the world. Emovi holds the exclusive marketing rights for the KneeKG™ and is currently marketing the tool in Canada, the United States and Europe. Thanks to the Centre du genou Emovi and its clinical partnership with Action Sports Physio, Emovi is helping Quebec residents access this technology and strives to improve the quality of life of people with knee osteoarthritis, ligament or meniscal tears, patellofemoral syndrome, tendonitis, and biomechanical deficits that cause pain and decreased function.

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**Source:** Emovi  
[www.emovi.ca](http://www.emovi.ca)  
[www.centredugenou.com](http://www.centredugenou.com)

**Information:** Diane Jeannotte  
**Phone:** 514-284-2860, extension 2  
**Cell:** 514-772-8019