



The LDA®, Automated Dynamic Laximetry, in Sports

Control and prevention of the risk of ACL injuries



The LDA®, Automated Dynamic Laximetry in Sport A new tool for the prevention and the follow-up



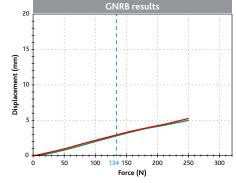


- Device for the LDA® in tibial translation and medial tibial rotation
- Push forces from 1 to 300 N
- LDA® software
- Digital goniometer system for rotation measurement
- Optional : module PCL

Test results of the LDA®

- Dynamic measurements of tibial displacement
- Curves of ligament resistance
- Calcul of the slope of curves
- Measurement of tibial medial rotation
- Chart with registered measures
- Patient data archiving
- Export to xls file
- Print in pdf format

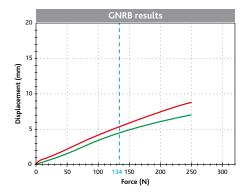




Ligament check-up*

Early in the season (or in recruitment phase) a GNRB ROTAB test informs within minutes on unique dynamic parameters to acquire an objective ligament performance check-up.

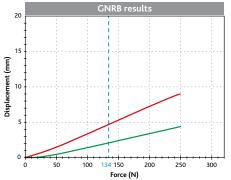
Given example: $\Delta 134 = 0$ mm, $\Delta P2 = 0$ μ m/N, $\Delta^{\circ} = 0^{\circ}$ Identical conventional laximetries: nothing to report



Longitudinal tracking*

Especially on risk subjects the automatized registrations enable a quick comparison of all personalized tests at any time.

Given example: $\Delta 134 = 1,5$ mm, $\Delta P2 = 5 \mu m/N$, $\Delta^{\circ} = 2^{\circ}$ Divergent curves \rightarrow mild risk of instability



Preoperative control*

After sport injuries (knee sprain), feeling of instability.

Given example: $\Delta 134 = 2.7 \text{ mm}$, $\Delta P2 = 8 \mu \text{m/N}$, $\Delta^\circ = 2^\circ$ Divergent curves, high differential of slopes \rightarrow confirmation of high risk of functional instability





An innovative support in Diagnostics

As first intention, by **objective confirmation** of clinical examinations, the Automated Dynamic Laximetry, LDA®, promotes an optimized detection of knee ligament injuries and the risk of instability.

A patented method

The fixation parameters of the ankle and the femur saved, the sensor positioned on the ATT (Anterior Tibial Tuberosity) measures the **anterior translation of the tibia** generated by a motorized push under the calf. The induced **medial tibial rotation** is automatically registered.

The **specific LDA®** software synthesizes and immediately compares the measurements of translation and rotation performed on both knees.

Prevention, a major asset!

The LDA® allows to accurately assess ligament function and optimizes the **prevention of the ACL injury risk**.

An effective longitudinal tracking

Integrated into the longitudinal follow-up, the LDA® is recommended for athletes and teams of pivot sports.

Non-invasive and painless, the tests can be repeated and operated at any moment to provide a precise information on the level of knee stability.

Networked devices

The test results of the GNRB can be integrated into the **inhouse patient data-management system**.

Surgery or specific training?

By measuring the tibial rotation, the GNRB Rotab enables a quick functional analysis of instabilities and thus fully participate in the choice of adapted therapies or of specific intensive individual training for instance.

LDA®, a real advantage for Isokinetic

The LDA® is the **ideal complement** to the muscular evaluation tests providing a **comprehensive approach (ligamento-muscular)** of the knee joint.

Two different expertises helping to validate the return to play.





Quality Certificates

- NF IN ISO 13485 (2012)
- ISO 9001 (2008)
- ISO 13485 (2003)

Patents

- French patents (INPI): FR 0608725 and FR 0608726
- European patent : EP 078209.0-1526
- USA patent : Nr.13/502790

















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