

Genourob®

INNOVATIVE LAXIMETRY



The LDA®,
Automated Dynamic Laximetry
in Isokinetics

■ Follow-up and control of ligament function
of the central pivot



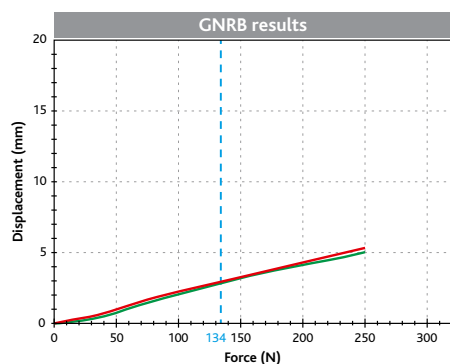
The LDA[®], Automated Dynamic Laximetry in Isokinetics for a global ligamento-muscular approach of the knee



- Device for the LDA[®] in tibial translation
- Push forces from 1 to 300 N
- LDA[®] software
- Optional modules: Rotab, PCL

Test results of the LDA[®]

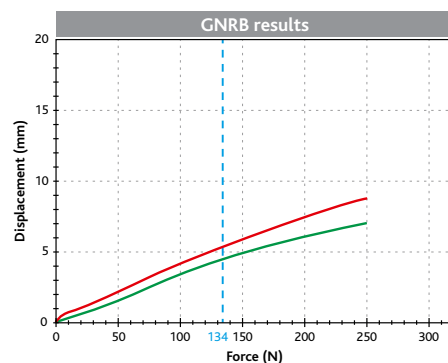
- Dynamic measurements of tibial displacement
- Curves of ligament resistance
- Calcul of the slope of curves
- Chart with registered measures
- Patient data archiving
- Export to xls file
- Print in pdf format



LDA[®] check-up: a secured validation!*

To validate the return to the sport activities and to assess, before recruitment, the functional quality of the central pivot, the LDA[®] helps to take the right decisions.

Given example: Identical conventional laximetries > Nothing to report!

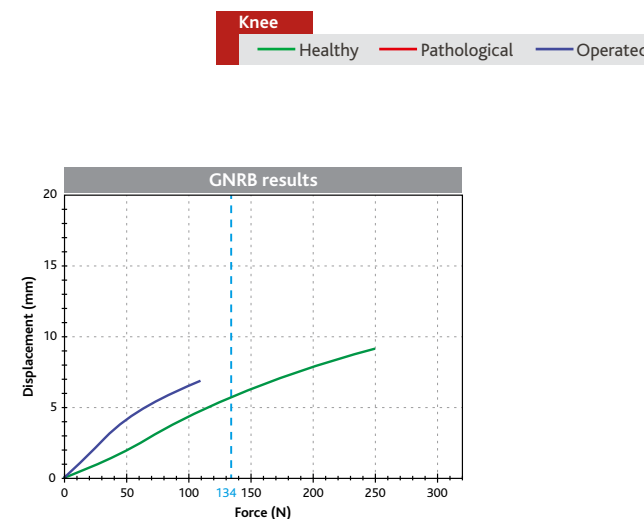


Longitudinal tracking and resistance control*

Tests performed in the early season and repeated at regularly intervals allow a methodical control of the ACL, especially at risk subjects.

The automated registration enables a fast comparison (few seconds) of all personalized tests at any time.

Given example: mild risk of instability (divergent slopes)



Postoperative control* at 60 days

The ACL reconstruction shows a parallel curve with a small difference compared to the healthy knee curve. The rehabilitation and its adapted static exercises, or dynamic, proprioceptive, can be continued (classic protocol).



Photo : Shutterstock

■ The Automated Dynamic Laximetry evaluates the ACL reconstruction

It allows to early adapt the muscular exercises to perform a better control of the risk of gliding, loosening or distension of the plasty during the rehabilitation.

These exercises are carried out according to the surgery techniques (patella or hamstrings tendon autografts), and often performed distant from the surgery despite the lack of objective data on the state of healing of the graft.

■ The LDA® allows an adapted and controlled resumption to muscular strengthening on the Isokinetic unit.

Indeed, the knee rehabilitation may also involve the LDA® to evaluate the ACL reconstruction, to allow a suitable muscular strengthening of quadriceps and hamstrings, and to validate the specific proprioceptive exercises.

■ Networked devices

The GNRB devices (see brochure LDA®) are the only automated dynamic laximeters, whose test results can be networked.

■ The LDA® in isokinetics for a complete ligament and muscular check-up

Whether as part of a prior medical examination, or to objectively validate the resumption of sporting activity, the functional evaluation of the ACL ligament is the ideal complement to the muscular assessment. The tests provide a comprehensive approach (ligamento-muscular) of the knee joint.

Knowing the state of the muscle function is good, but also be able to accurately assess ligament function is better!

The Isokinetic device and the LDA®, Automated Dynamic Laximetry: 2 combined expertises.

■ Prevention of the risk of ligament injury is a major asset!

The LDA® is essential for longitudinal tracking on athletes and sport teams (pivot sports). This preventive activity enables to evaluate the functional quality of the central pivot and an early detection of risk cases for ACL injuries.

The non-invasive and painless tests can be repeated and operated at any time to provide accurate information about the risk of a knee instability (Bercovy's work, 1502 case studies, highlighting the strong correlation between divergence of slopes of laxity curves and clinical instability...).



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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