



TMG100 -TENSIOMYOGRAPHY

A BRIEF INTRODUCTION

Tensiomyography is a validated method to precisely measure individual muscles' contraction characteristics. This information helps identify injury risk and shows change in performance over time.



TMGTM

SCIENCE FOR BODY EVOLUTION.

TMG100 tensiomyography is a rapidly evolving technology that is non-invasive, practical, fast and reliable. It helps quantify rehabilitation or training progress to objectively assess whether a selected methodology is truly working. The specific muscle contraction properties it measures are important factors for medical and performance staff looking for real insight into individual muscle status.

The strengths of TMG100 are its simplicity, flexibility and compatibility with other methods and applications on or off the field. Athletes can be profiled, monitored, and guided in rehabilitation in a matter of minutes.

Unlike static medical imaging, TMG100 reveals the true functional ability of muscles without excessive costs, time and travel.

Assessments are painless, require no effort from the athlete and can be done even during the acute phases of injury to obtain essential, clear and objective benchmarks. The informative value of the data about muscle function cannot be replicated by any other modality, making it invaluable to teams.

Team management and sports medicine and performance professionals all have a common need for relevant and objective information so that decisions can be made faster and more informed. TMG100 provides this in a efficient, fast and simple way.

“IN A NUTSHELL, TEAM MANAGEMENT, SPORTS MEDICINE AND PERFORMANCE PROFESSIONALS ALL HAVE A COMMON NEED FOR RELEVANT AND OBJECTIVE INFORMATION SO THAT DECISIONS CAN BE MADE FASTER AND MORE INFORMED. TMG100 PROVIDES THIS INFORMATION IN A EFFICIENT, FAST AND SIMPLE WAY.”

FOR THE SUCCESS OF SPORTSMEN THE COOPERATION OF ALL STAFF, FROM PHYSIO TO MANAGEMENT IS WELL CONNECTED AND COORDINATED. TMG 100 PROVIDES ACCESS TO OBJECTIVE INFORMATION TAILORED TO DIFFERENT EXPERTS THAT SUPPORTS THEIR COOPERATION AND EMPOWER THEIR DECISIONS.

SPORTS MEDICINE



TMG100 solves the challenges of:

- Screening and Assessment to prevent injuries
- Managing risk during recovery
- Making informed decisions about safe return-to-play

SPORTS PERFORMANCE



TMG100 helps performance coaches:

- Ensure and maintain player readiness
- Profile athletes for a more individual approach
- Set accurate benchmarks for training

MANAGEMENT AND COACHING



TMG100 assists management and coaching staff to:

- Visualize medical and performance data
- Make faster and more informed tactical and strategic decisions
- Monitor player status throughout the season

THE POWER OF TMG100 TECHNOLOGY

TMG100 testing is flexible, rapid and readily integrated in therapeutic and performance settings. With TMG100 in use, coaches and therapists can make decisions that otherwise were not possible with conventional approaches and equipment. TMG100 solves the following problems in top level sport:

FIBER TYPING

Muscle fiber composition can be estimated to determine fatigue and prescribe individual training programs.

RISK PROFILING

Data from testing can be used for appraisal of specific risk of injury.

INSTANT PLAYER READINESS

Entire rosters of teams can be evaluated before practice and games to safeguard against injury. Data can be exported or shared with mobile devices and athlete management software.



Typical screen display of TMG100 measurements showing the evolution throughout therapy of a grade II biceps femoris strain in a professional basketball athlete. The initial measurement, taken within hours of sustaining injury, shows lower lateral displacement of the muscle with increased contraction time. Throughout therapy, lateral displacement increases and contraction time decreases.

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