



Influence of Anterior Cruciate Ligament surgery with semitendinous and gracilis graft on static postural balance at 3 months postoperatively: Randomized controlled study

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Abstract:

Introduction: The anterior cruciate ligament (ACL) tear is the most common sport injury. Surgery is often proposed, but single-leg and double-leg static postural disorders have been discovered several months after surgery.

Objective: To compare postural disorders after ligament reconstruction by hamstring tendon graft in the 3 months after surgery to those caused by aging and to determine the influence of vision and of knee position in postural control.

Materials and Methods: 2 groups of subjects underwent bilateral and unilateral postural tests. An analysis of the centre of pressure's displacement is carried out for each test.

Results: Comparison of the two groups shows no significant difference for the injured leg on the unilateral and bilateral tests only. There is a significative difference for the closed-eyes unilateral tests and the bent-knee bipodal tests of the ACL group.

Conclusion: Postural alteration after ACL reconstruction on the injured leg and on bilateral posture can be compared to postural disorders caused by age. Vision seems to be used in postural control. Postural alteration seems most important in the bilateral bent-knee test

Biography:

Florian Forelli is a physiotherapist specializing in knee rehabilitation in traumatology and orthopedics. He works in the functional exploration unit of the Clinic of Domont where he evaluates 250 patients per year after



ACL surgery. He specializes in the field of laximetric assessment, isokinetic assessment, gait and postural analysis to determine risk factors related to sports recovery after ACL surgery. He is also teacher in several insitutes in various fields of rehabilitation and publishes many articles on lower limbs rehabilitation.

Publication of speakers:

1. Implication of Biomechanical Factors in the Knee Dynamic Alignment: Case of Femoropatellar Pain Syndrome
2. Identification of Methods for Estimating Knee Rotation Axis
3. Identification des critères de retour au sport après chirurgie ligamentaire de la cheville
4. Integration of Postural Alterations in the Assessment and Neuromotor Rehabilitation after Anterior Cruciate Ligament Surgery: A Narrative Review
5. Influence of Anterior Cruciate Ligament Surgery with Semitendinosus and Gracilis Graft on Static Postural Balance at 3 Months Postoperatively: Randomized Controlled Study

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