

# Results of tape locking screw device used in anterior cruciate ligament reconstruction: 2 years follow-up

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<b>Registration date</b> 29/04/2020	<b>Overall study status</b> Completed	<input type="checkbox"/> Protocol
<b>Last Edited</b> 29/04/2020	<b>Condition category</b> Injury, Occupational Diseases, Poisoning	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data
		<input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

The anterior cruciate ligament (ACL) is a tough band of tissue joining the thigh bone to the shin bone at the knee joint. ACL injuries can be treated with reconstructive surgery removing what remains of the torn ligament and replacing it with a tendon from another area of the leg, such as the hamstring. The aim of this study is to collect clinical follow-up data of the Tape Locking Screw™ (TLS™) technique in ACL reconstruction.

### Who can participate?

Patients with an ACL injury

### What does the study involve?

All patients undergo surgery with the Tape Locking Screw (TLS™) technique. There are clinical follow-ups at 1 and 2 years after the surgery, patients also filled in questionnaires.

### What are the possible benefits and risks of participating?

Possible benefits include a stable knee. Possible risks are operative risks including infection.

### Where is the study run from?

Orton Orthopaedic Hospital (Finland)

### When is the study starting and how long is it expected to run for?

September 2007 to July 2012

### Who is funding the study?

Orton research grants by the Ministry of Social Affairs and Health (Finland)

### Who is the main contact?

Dr Leena Metso

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# Contact information

## Type(s)

Scientific

## Contact name

Dr Leena Metso

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# Additional identifiers

## Clinical Trials Information System (CTIS)

Nil known

## ClinicalTrials.gov (NCT)

Nil known

## Protocol serial number

Nil known

# Study information

## Scientific Title

Results of Tape Locking Screw™ in anterior cruciate ligament reconstruction: 2 years follow-up

## Study objectives

This study is collecting clinical follow-up data of the Tape Locking Screw™ (TLS™) technique.

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

Approved 11/11/2015, The Hospital District of Helsinki and Uusimaa Operative Ethics Committee (Tynnyrintekijäankatu 1 C, Helsinki, Finland; +358 (0)50 428 7838; [keskuskirjaamo@hus.fi](mailto:keskuskirjaamo@hus.fi)), ref: 364/13/03/02/2015. TMK02 §219

## Study design

Single-centre prospective clinical trial

**Primary study design**

Interventional

**Study type(s)**

Treatment

**Health condition(s) or problem(s) studied**

Anterior cruciate ligament injury

**Interventions**

137 consecutive patients with an ACL injury were enrolled to be operated on with the TLS™ technique. Every ACL reconstruction was performed by the same orthopedic surgeon (AH) during the time period of November 2007 to July 2012. The results of Lysholm score, Tegner score, laxity, Lachmann test and pivot-shift tests were recorded at 1- and 2- years of follow-up. Patients were allocated consecutively in a single-centre hospital Orton in Helsinki Finland between November 2007 and July 2012. Clinical controls were at 1 and 2 years postoperatively.

**Intervention Type**

Procedure/Surgery

**Primary outcome(s)**

Stability of the operated knee measured with Lachman, pivot-shift, and anteroposterior knee laxity tests, preoperative and at 1- and 2-year follow-ups

**Key secondary outcome(s)**

Patient satisfaction measured with Tegner, Lysholm, patellofemoral scores and IKDC questionnaires, preoperative and at 1- and 2-year follow-ups

**Completion date**

30/07/2012

**Eligibility****Key inclusion criteria**

Patients with ACL injury

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Mixed

**Sex**

All

**Total final enrolment**

137

**Key exclusion criteria**

Does not meet inclusion criteria

**Date of first enrolment**

01/11/2007

**Date of final enrolment**

15/07/2012

**Locations****Countries of recruitment**

Finland

**Study participating centre**

Orton Orthopaedic Hospital

Tenholantie 10

Helsinki

Finland

00280

**Sponsor information****Organisation**

ORTON Orthopaedic Hospital

**Funder(s)****Funder type**

Government

**Funder Name**

Sosiaali- ja Terveysministeriö

**Alternative Name(s)**

Ministry of Social Affairs and Health, Social- och Hälsovårdsministeriet

**Funding Body Type**

Government organisation

**Funding Body Subtype**

National government

## Location

Finland

# Results and Publications

## Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study are/will be available upon request from Arsi Harilainen (arsi.harilainen@orton.fi).

## IPD sharing plan summary

Available on request

## Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Participant information sheet</a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes