

# A Randomized Controlled Trial of AttraX® Putty vs. conventional open-wedge osteotomy without gap filler in open-wedge osteotomy

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The main aim of this study is to determine whether early postoperative pain is decreased when the osteotomy gap is filled with AttraX® Putty, compared to conventional open wedge osteotomy without filling the gap. The secondary aims are faster...

<b>Ethical review</b>	Approved WMO
<b>Status</b>	Recruiting
<b>Health condition type</b>	Other condition
<b>Study type</b>	Interventional

## Summary

### ID

NL-OMON53187

### Source

ToetsingOnline

### Brief title

AXOS

### Condition

- Other condition
- Joint disorders

### Synonym

arthrosis, Unicompartimental osteoarthritis

### Health condition

Standsafwijking

## Research involving

Human

## Sponsors and support

**Primary sponsor:** Universitair Medisch Centrum Utrecht

**Source(s) of monetary or material Support:** Nuvasive

## Intervention

**Keyword:** Gap filler, Osteotomy, Postoperative pain, Randomized controlled trial

## Outcome measures

### Primary outcome

The main study endpoint is the mean NRS pain during the first week postoperative.

### Secondary outcome

The secondary study endpoints are faster accelerated rehabilitation/regaining function, reduction of local blood loss, accelerated, bone union, and comparable surgical feasibility

## Study description

### Background summary

Realignment osteotomies around the knee are a proven surgical treatment for unicompartmental knee osteoarthritis and a malalignment. Osteotomies can be very painful in the early postoperative phase. This is probably due to a combination of bony cut (bone pain) and postoperative hematoma (bleeding and leakage of the bone marrow) in the surrounding soft tissue. The AttraX® Putty can be used as a gap filler in open wedge osteotomies to potentially reduce postoperative pain by reducing the bleeding from the bone gap.

### Study objective

The main aim of this study is to determine whether early postoperative pain is decreased when the osteotomy gap is filled with AttraX® Putty, compared to

conventional open wedge osteotomy without filling the gap. The secondary aims are faster accelerated rehabilitation/regaining function, reduction of local blood loss, accelerated bone union, and comparable surgical feasibility.

## **Study design**

Single-blinded, prospective, randomized controlled trial.

## **Intervention**

According to a randomization scheme, the osteotomy gap will be filled with either the synthetic ceramic material AttraX® Putty or without a gap filler (conventional method).

## **Study burden and risks**

Patients may have the advantage of experiencing less pain postoperatively if they are treated with the AttraX® Putty, which can contribute to a faster rehabilitation. Risks to the AttraX® Putty group may include an allergic reaction, failure to promote bone fusion and excessive bone growth. However, the preclinical studies and clinical studies show that the use of AttraX® Putty is safe for use in humans.

## **Contacts**

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## **Trial sites**

## Listed location countries

Netherlands

## Eligibility criteria

### Age

Adults (18-64 years)

Elderly (65 years and older)

### Inclusion criteria

1. Patients above 18 years with an indication for an open-wedge osteotomy of the femur, tibia or double level due to unicompartimental OA.
2. Comply with all aspects of the treatment, including CT scans, Xrays and 1-year follow-up
3. Informed consent

### Exclusion criteria

1. Osteotomy for indication of cartilage treatment or other knee surgeries than unicompartimental OA
2. Correction using an open wedge above 10 mm
3. Pregnant women at the time of enrolment or women who are planning to become pregnant during the duration of the study
4. Inability to communicate in Dutch or English

## Study design

### Design

Study type:	Interventional
Intervention model:	Parallel
Allocation:	Randomized controlled trial
Masking:	Single blinded (masking used)
Control:	Active
Primary purpose:	Treatment

## Recruitment

NL  
Recruitment status: Recruiting  
Start date (anticipated): 20-09-2023  
Enrollment: 40  
Type: Actual

## Medical products/devices used

Generic name: Attrax Putty  
Registration: Yes - CE intended use

## Ethics review

Approved WMO  
Date: 19-07-2023  
Application type: First submission  
Review commission: METC NedMec

## Study registrations

### Followed up by the following (possibly more current) registration

No registrations found.

### Other (possibly less up-to-date) registrations in this register

No registrations found.

## In other registers

Register	ID
Other	clinicaltrials.gov
CCMO	NL84534.041.23