Follow-up of patients with an ankle arthrodesis

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Ethical review	Approved WMO
Status	Recruiting
Health condition type	Joint disorders
Study type	Observational invasive

Summary

ID

NL-OMON46392

Source ToetsingOnline

Brief title Follow-up of patients with an ankle arthrodesis

Condition

• Joint disorders

Synonym ankle fusion, arthrodesis

Research involving Human

Sponsors and support

Primary sponsor: Erasmus MC, Universitair Medisch Centrum Rotterdam **Source(s) of monetary or material Support:** Afdeling

Intervention

Keyword: Ankle arthrodesis, Arthritis, Follow--up

Outcome measures

Primary outcome

The main study outcome is the degree of arthritis in the subtalar joint and

talonavicular joint, scored with the Kellgren and Lawrence score based on a

CAT-scan.

Secondary outcome

Degree of increase of arthritis in the adjacent joints between pre-operative

CAT-scan and follow-up CAT scan.

Degree of arthritis in in adjacent joint in the ankle with the ankle

arthrodesis compared to the contralateral ankle

Correlation between patient reported outcomes and degree of arthritis of the

adjacent joints.

Study description

Background summary

In patients with end-stage ankle arthritis, an ankle arthrodesis is a common surgical procedure for pain relievement. Due to changed biomechanical loading after an ankle arthrodesis, patients might be at increased risk of adjacent joint degeneration. Several studies showed, that patients with an ankle arthrodesis do have arthritis in the adjacent joints. However, most of those studies do not report preoperative arthritis grade. Therefore, it remains unclear if arthritis of the adjacent joints is a consequence of the arthrodesis or if it was already existing before the arthrodesis. Only few studies compared the amount of arthritis before the arthrodesis to the amount of arthritis after the arthrodesis. Interestingly, those studies reported that in most patients with adjacent joint arthritis, the arthritis was already pre-existing before the ankle arthrodesis. Hendrickx et al. 2011 reported that progression of osteoarthritis in adjacent joint is likely after an ankle arthrodesis, but that it becomes rarely symptomatic. Overall, as has been described in the review of Ling et al., a paucity of studies evaluate the preoperative prevalence of adjacent joint arthritis and therefore it is still unclear if an ankle arthrodesis increases the risk of adjacent joint arthritis.

Study objective

The main aim of this study is to investigate if patients that received an ankle arthrodesis, have arthritis in the adjacent joints (subtalar joint and talonavicular joint). Furthermore, we would like to study (1) the amount of increase of arthritis in the adjacent joints compared to before surgery, (2) the degree of arthritis in the contralateral ankle, (3) the correlation between degree of arthritis and patient reported outcomes.

Study design

Observational study

Study burden and risks

Patients will visit the outpatient clinic of the department of Orthopaedics of the Erasmus MC for a bilateral CAT-scan, x-rays, physical examination of the ankle and to fill in questionnaires. This will take approximately 1 hour. These are all standard clinical scans and test, and patients will not be exposed to any risks.

Contacts

Public Erasmus MC, Universitair Medisch Centrum Rotterdam

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age Adults (18-64 years) Elderly (65 years and older)

Inclusion criteria

Patient has had ankle arthrodesis in the Erasmus MC at the department or orthopedics between 2004 and 2017, a pre-operatieve CAT-scan is available

Exclusion criteria

- Received a double or triple arthrodesis
- Arthrodesis with an intramedullary nail or external fixator
- Amputation of the ankle after the arthrodesis
- Patient deceased

Study design

Design

Study type: Observational invasive		
Masking:	Open (masking not used)	
Control:	Uncontrolled	
Primary purpose:	Other	

Recruitment

NL Recruitment status:

Recruiting

Start date (anticipated):	03-04-2019
Enrollment:	30
Туре:	Actual

Ethics review

Approved WMO Date:	
Application type:	
Review commission:	

09-11-2018 First submission METC Erasmus MC, Universitair Medisch Centrum Rotterdam (Rotterdam)

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

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

ID: 23848 Source: NTR Title:

In other registers

Register CCMO

OMON

ID NL65370.078.18 NL-OMON23848