

DART II. Post-traumatic osteoarthritis of the wrist in elderly patients with displaced intra-articular distal radius fractures. A follow-up study of the DART trial.

Published: 23-01-2019

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Assessing the post traumatic and degenerative radio-carpal osteoarthritis of open reduction and internal fixation compared with non-operative treatment for elderly patients with an intra-articular distal radius fracture.

Ethical review	Approved WMO
Status	Recruiting
Health condition type	Bone and joint therapeutic procedures
Study type	Observational invasive

Summary

ID

NL-OMON49854

Source

ToetsingOnline

Brief title

DART II

Condition

- Bone and joint therapeutic procedures

Synonym

articular degeneration after trauma, posttraumatic osteoarthritis

Research involving

Human

Sponsors and support

Primary sponsor: Reinier de Graaf Groep

Source(s) of monetary or material Support: ReumaNederland

Intervention

Keyword: degeneration, distal radius fracture, intra-articular fracture, post-traumatic osteoarthritis

Outcome measures

Primary outcome

The degree of radio-carpal osteoarthritis on X-ray and and CT scan 2 and 5 years after the intra-articular distal radius fracture.

Secondary outcome

An assessment will be made if there is a correlation between the primary outcome and secondary outcomes, such as patient reported outcome measures (PROMs) including the Patient-Rated Wrist Evaluation score (PRWE), Disability of the Arm, Shoulder and Hand (DASH), Michigan Hand Outcome Questionnaire (MHOQ), Quality of life (EQ-5D-3L and 15D) and Pain Catastrophizing Scale (PCS). Further secondary outcomes are the frailty score, range of motion (ROM), grip strength, complications and additional costs as a result of osteoarthritis.

Study description

Background summary

Continuing controversy exists in the best treatment of intra-articular distal radius fractures in the elderly. The ultimate aim of treatment is to restore articular congruity to prevent complications such as secondary post-traumatic osteoarthritis. Treatment of choice depends highly on the surgeon's preference

and functional demands of the elderly patient. Currently, the development of post-traumatic osteoarthritis is unclear regarding the relation to trauma as well as regarding the best treatment. Furthermore, the development of osteoarthritis in relation to the healthy contralateral side (which projects the natural course of osteoarthritis) and in relation to functional outcomes in the elderly are not known.

Study objective

Assessing the post traumatic and degenerative radio-carpal osteoarthritis of open reduction and internal fixation compared with non-operative treatment for elderly patients with an intra-articular distal radius fracture.

Study design

A prospective cohort study with a four year follow up study on the DART study (The effectiveness of surgery versus casting for elderly patients with Displaced distal intra-Articular Radius fractures. A randomized controlled Trial) (NL56858.100.16, R16.013/DART).

Study burden and risks

All study patients of the DART study will be approached and asked to participate in the DART II study. As part of the DART II, patients will have two follow-up moments at 24 months and 60 months. Patients will be asked to fill out the questionnaires, both wrists will be physically examined and X-rays of both wrists will be made. Furthermore, at 60 months follow up, a CT scan will be made of both wrists. Patients are also asked to fill out a cost questionnaire combined with the EQ-5D-3L every six months. In total study participants will spend 210 minutes to this study. Exposure to radiation due to the extra radiographs and CT scan of the wrists is relatively low. In total it will result in approximately 0,044 mSv of radiation.

Contacts

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Elderly (65 years and older)

Inclusion criteria

Participant of the DART study or NITEP Nordic Radius study (AO type C fracture)

Mentally competent

Dutch fluency and literacy

Informed consent

Exclusion criteria

Incomplete follow-up period during participation of the DART study

Fracture of the contralateral wrist in the history

Rheumatoid arthritis

Study design

Design

Study type: Observational invasive

Masking: Open (masking not used)

Control: Uncontrolled

Primary purpose: Basic science

Recruitment

NL
Recruitment status: Recruiting
Start date (anticipated): 24-05-2019
Enrollment: 154
Type: Actual

Ethics review

Approved WMO
Date: 23-01-2019
Application type: First submission
Review commission: METC Leiden-Den Haag-Delft (Leiden)
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Approved WMO
Date: 01-05-2019
Application type: Amendment
Review commission: METC Leiden-Den Haag-Delft (Leiden)
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Approved WMO
Date: 21-10-2019
Application type: Amendment
Review commission: METC Leiden-Den Haag-Delft (Leiden)
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Approved WMO
Date: 09-12-2019
Application type: Amendment
Review commission: METC Leiden-Den Haag-Delft (Leiden)
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Approved WMO
Date: 19-05-2020

Application type: Amendment
Review commission: METC Leiden-Den Haag-Delft (Leiden)
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Approved WMO
Date: 29-09-2020
Application type: Amendment
Review commission: METC Leiden-Den Haag-Delft (Leiden)
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Approved WMO
Date: 29-01-2024
Application type: Amendment
Review commission: METC Leiden-Den Haag-Delft (Leiden)
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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: 26024
Source: NTR
Title:

In other registers

Register	ID
ClinicalTrials.gov	NCT03009890
CCMO	NL67693.098.18
OMON	NL-OMON26024