Posttraumatic osteoarthritis following perilunate (fracture) dislocations

No registrations found.

Ethical review	Positive opinion
Status	Pending
Health condition type	-
Study type	Observational non invasive

Summary

ID

NL-OMON21645

Source
Nationaal Trial Register

Health condition

posttraumatic osteoarthritis
perilunate dislocation/fracture
outcome

Sponsors and support

Primary sponsor: University Medical Center Groningen;
C.M.Lameijer
C.K. van der Sluis
Source(s) of monetary or material Support: Research fund: Fonds de Gavere

Intervention

Outcome measures

Primary outcome

The prevalence of posttraumatic osteoarthritis.

Secondary outcome

Patient reported functional outcomes objectified with the PRWE, DASH, SF-36 and MHQ.
Objective outcomes: X-rays, range of motion, grip strength.

Study description

Background summary

The development of posttraumatic osteoarthritis (PA) following perilunate dislocations and perilunate fracture dislocations (PLD-PLFDs) has been described. Direct and indirect joint impact loading, soft tissue injuries, joint dislocation and intra-articular fractures, increase the risk of progressive joint degeneration that cause PA. It is though posttraumatic osteoarthritis develops less in younger patients. However, it might be more invalidating for a young non-osteoporotic patient to develop posttraumatic osteoarthritis and loss of function following PLD-PLFD than for an older patient. The extent of the loss of function can be objectified using functional measures, such as range of motion and grip strength. Subjective measures to objectify loss of function as experienced by the patient can be performed using validated questionnaires. In this study, the prevalence of posttraumatic osteoarthritis following a PLD-PLFD in young patients is determined. Also, the question arises what the correlation between objective and subjective outcome measures is following a PLD-PLFD in young patients.

Study objective

To determine the prevalence of posttraumatic osteoarthritis following a PLD-PLFDs in a cohort of young non-osteoporotic patients and correlation with objective and subjective outcome measures.

Study design

Observational study, there will be various timepoints.

Intervention

No intervention.

Questionnaires: PRWE, DASH, SF-36 and MHQ.
X-rays of both hands. Range of motion test and grip strength test by a certified handphysician

Contacts

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Eligibility criteria

Inclusion criteria

All patients treated in the period 1996 until 2014 in the University Medical Center Groningen for a PLD-PLFD

- Men between the ages of 18 - 50 years and women between the ages of 18 - 40 years at the time of injury (no clinical osteoarthritis according to current available information in the literature)
- Written informed consent

- Mentally competent

Exclusion criteria

Preexistent osteoarthritis of the hand or preexistent declined function of the hand or wrist according to the patient

- ASA III-V patients or other contra-indications for surgical treatment at the time of injury. These patients are not able to receive the most optimal treatment and thus altered outcome measures can be expected

- No permanent residency (in the Netherlands)

- Co-morbidity that may influence the outcomes, such as neurological of rheumatic disorders influencing arm function.

- Insufficient control of the Dutch language.

- No informed consent

- Osteoporosis known from medical history

- Pregnant women

Study design

Design

Study type:	Observational non invasive
Intervention model:	Other
Masking:	Open (masking not used)
Control:	N/A , unknown

Recruitment

NL

Recruitment status:	Pending
Start date (anticipated):	01-08-2015
Enrollment:	30
Type:	Anticipated

Ethics review

Positive opinion

Date:	24-08-2015
Application type:	First submission

Study registrations

Followed up by the following (possibly more current) registration

ID: 44129
Bron: ToetsingOnline
Titel:

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

No registrations found.

In other registers

Register	ID
NTR-new	NL5316
NTR-old	NTR5425
CCMO	NL52111.042.15
OMON	NL-OMON44129

Study results