Posttraumatic osteoarthritis following perilunate (fracture) dislocations

Gepubliceerd: 24-08-2015 Laatst bijgewerkt: 15-05-2024

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.

Ethische beoordeling	Positief advies
Status	Werving nog niet gestart
Type aandoening	-
Onderzoekstype	Observationeel onderzoek, zonder invasieve metingen

Samenvatting

ID

NL-OMON21645

Bron
Nationaal Trial Register

Aandoening

posttraumatic osteoarthritis
perilunate dislocation/fracture
outcome

Ondersteuning

Primaire sponsor: University Medical Center Groningen;
C.M.Lameijer
C.K. van der Sluis
Overige ondersteuning: Research fund: Fonds de Gavere

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

The prevalence of posttraumatic osteoarthritis.

Toelichting onderzoek

Achtergrond van het onderzoek

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.

Doel van het onderzoek

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.

Onderzoeksopzet

Observational study, there will be various timepoints.

Onderzoeksproduct en/of interventie

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

Contactpersonen

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

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

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

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

Onderzoeksopzet

Opzet

Type:	Observationeel onderzoek, zonder invasieve metingen
Onderzoeksmodel:	Anders
Blindering:	Open / niet geblindeerd
Controle:	N.v.t. / onbekend

Deelname

Nederland

Status:	Werving nog niet gestart
(Verwachte) startdatum:	01-08-2015
Aantal proefpersonen:	30
Type:	Verwachte startdatum

Ethische beoordeling

Positief advies

Datum:	24-08-2015
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

ID: 44129
Bron: ToetsingOnline
Titel:

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

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

Resultaten