Osteoarthritis following distal radius fractures in young patients.

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To determine the incidence of post traumatic osteoarthritis following distal radius fractures in a cohort of young non-osteoporotic patients and the 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-OMON22608

Bron
Nationaal Trial Register

Aandoening

Radius Fracture Osteoarthritis Subjective

Ondersteuning

Primaire sponsor: Prof. dr. C.K. van der Sluis, MD PhD
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Overige ondersteuning: Fonds de Gavere

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

(Level of) posttraumatic osteoarthritis.

Toelichting onderzoek

Achtergrond van het onderzoek

The development of posttraumatic osteoarthritis (PA) following distal radius fractures (DRFs) has been commonly described. Direct and indirect joint impact loading, soft tissue injuries, joint dislocation and intra-articular fractures, increase the risk of progressive joint degeneration that causes PA. It is thought 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 a distal radius fracture than for an older patient. The extend of the loss of function can be objectivied using functional measures, such as range of motion and grip strength. Subjective measures to objectivy loss of function as experienced by the patient can be performed using validated questionnaires. In this study, the prevalence of posttraumatic osteoarthritis following a distal radius fracture is in young patients is determined. Also, the question arises what the correlation between the existence of post traumatic osteoarthritis and the objective and subjective outcome measures is following a distal radius fracture in young patients.

Doel van het onderzoek

To determine the incidence of post traumatic osteoarthritis following distal radius fractures in a cohort of young non-osteoporotic patients and the correlation with objective and subjective outcome measures.

Onderzoeksopzet

N/A

Onderzoeksproduct en/of interventie

- 4 X-rays, 2 of both wrists;

- Validated questionnaires (DASH, PRWE, MHQ and SF-36);

- Functional ourtcome (i.e. ROM, grip strength);

Contactpersonen

Publiek

[default]

The Netherlands

Wetenschappelijk

[default]
The Netherlands

Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

- All patients treated in the period 2005 until 2011 at the Medical Center Leeuwarden;

- All distal radius fractures, AO type A, B and C ;

- 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 [21,22]);

- Mentally competent;

- Living in the Netherlands and sufficient control of the Dutch language;

- Availability of X-rays of the wrist of the date of injury and 6 weeks after the injury.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

- Fracture treated surgically after the 7th day following initial injury;

- Open fractures;

- Preexistent osteoarthritis of the wrist or preexistent declined function of the 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

Controle: N.v.t. / onbekend

Deelname

Nederland

Status:	Werving nog niet gestart
(Verwachte) startdatum:	01-09-2013
Aantal proefpersonen:	80
Type:	Verwachte startdatum

Ethische beoordeling

Positief advies

Datum:	20-05-2013
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

ID: 39658
Bron: ToetsingOnline
Titel:

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL3834
NTR-old	NTR4002
CCMO	NL41587.099.13
ISRCTN	ISRCTN wordt niet meer aangevraagd
OMON	NL-OMON39658

Resultaten