

Amsterdam Wrist Rules (AWR).

Gepubliceerd: 01-10-2010 Laatste bijgewerkt: 13-12-2022

Patients with a wrist trauma represent a substantial part of the patient population at the Emergency Department. Most hospitals routinely carry out a radiological examination of patients following wrist trauma to exclude a distal radius fracture....

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

Samenvatting

ID

NL-OMON21975

Bron

NTR

Aandoening

adult patients with acute injury of the wrist

Ondersteuning

Primaire sponsor: Academic Medial Centre, Amsterdam

Overige ondersteuning: None

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

1. The number of applied X-rays in adult patients with acute injury of the wrist after implementation of the AWR;

2. The number of missed fractures of the distal radius fracture in adult patients after implementation of the AWR.

Toelichting onderzoek

Achtergrond van het onderzoek

The incidence of wrist fractures is 400/100.000 in the Netherlands. These types of fractures represent an important amount of the workload in the Emergency Department. There are indications that in patients with wrist trauma most radiological examinations performed are redundant. We present a study whose aim is to develop a clinical decision rule called Amsterdam Wrist Rules (AWR). This decision should help to determine when an X-ray of the wrist is indicated. After development of the rule the effectiveness of the AWR will be evaluated by attaining two different aims:

1. Is there a decrease in the number of requested X-rays of the wrist after introduction of the AWR?
2. How many fractures of the wrist are missed after introduction of the AWR?

In a subsequent study a cost analysis and a satisfaction survey will be carried out.

Doel van het onderzoek

Patients with a wrist trauma represent a substantial part of the patient population at the Emergency Department. Most hospitals routinely carry out a radiological examination of patients following wrist trauma to exclude a distal radius fracture. However, a large part of x-rays in these patients (45%) do not show a fracture. Consequently, this means a waste of resources, an increase in patient waiting time and unnecessary radiation exposure. In a large training hospital the yearly costs of unnecessary X-rays performed are estimated on € 85.900,-.

The applicants have developed a clinical decision rule to indicate the need for radiological examination for wrist injuries, called the Amsterdam Wrist Rules (AWR). The objective of this study is to evaluate the decrease in requested radiographs in case of a wrist injury with a suspicion of a distal radius fracture. In addition a cost-effectiveness analysis will be performed of direct and indirect medical costs.

Onderzoeksopzet

Primary outcomes: Timepoint 2 years;

Secondary outcomes: Timepoint 2 years.

Onderzoeksproduct en/of interventie

Amsterdam Wrist Rules.

Contactpersonen

Publiek

Meibergdreef 9
Abdelali Bentohami
Academic Medical Center, Trauma Unit Department of Surgery
Amsterdam 1105 AZ
The Netherlands
+31 (0)20 5669111

Wetenschappelijk

Meibergdreef 9
Abdelali Bentohami
Academic Medical Center, Trauma Unit Department of Surgery
Amsterdam 1105 AZ
The Netherlands
+31 (0)20 5669111

Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

1. Every patient with acute injury of the wrist;
2. 18 years and older of age.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

1. Neurological alterations in upper limbs;
2. Pain in elbow or in ipsilateral forearm;
3. Patients with x-rays from another hospital;
4. Multiple trauma;

5. Patients already treated in another hospital;
6. intense pain of deformity preventing patient physical examination.

Onderzoeksopzet

Opzet

Type:	Observationeel onderzoek, zonder invasieve metingen
Onderzoeksmodel:	Parallel
Toewijzing:	N.v.t. / één studie arm
Blindering:	Dubbelblind
Controle:	N.v.t. / onbekend

Deelname

Nederland	
Status:	Werving gestopt
(Verwachte) startdatum:	01-11-2010
Aantal proefpersonen:	2000
Type:	Werkelijke startdatum

Ethische beoordeling

Positief advies	
Datum:	01-10-2010
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

Geen registraties gevonden.

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL2435
NTR-old	NTR2544
CCMO	NL34430.018.10
ISRCTN	ISRCTN wordt niet meer aangevraagd.

Resultaten

Samenvatting resultaten

N/A