

Implementation of the AWR by the ED triage nurse

Gepubliceerd: 22-08-2017 Laatste bijgewerkt: 13-12-2022

With implementation of the AWR and APWR by the ED triage nurse we expect a reduction in the total number of radiographs requested, without missing any clinically relevant fractures. We also expect a reduction in overall waiting times at the ED and...

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

Samenvatting

ID

NL-OMON21750

Bron

NTR

Verkorte titel

AWR ED triage nurse

Aandoening

wrist, trauma, distal radius, ulna, decision rule, implementation
pols, trauma, distale radius, ulna, beslisregel, implementatie

Ondersteuning

Primaire sponsor: Academic Medical Center (AMC), Amsterdam

Overige ondersteuning: Academic Medical Center

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

The number of requested radiographs in children with acute trauma of the wrist after

implementation of the AWR.

Toelichting onderzoek

Achtergrond van het onderzoek

In most hospitals, patients with wrist trauma are routinely referred for radiography of the wrist. However, only half of these patients have a fracture of the wrist. Currently, no clinical guidelines are imbedded in daily practice on Emergency Departments (ED) to decide if a wrist radiograph is necessary. This may result in unnecessary radiographs and therefore increased time spent at the ED, increased workload, and additional healthcare costs. Encouraged by the theoretical overuse of radiological resources due to the lack of clinical guidelines a clinical decision rule for both children and adults has been developed: the Amsterdam (Pediatric) Wrist Rules. The AWR and APWR have been externally validated and recently also implemented at the ED by emergency physicians. . However, in the recently finished implementation study, the EDs had to change their workflow because patients were first seen by the ED physician and not the triage nurse. Therefore, the aim of the current study is to evaluate the effect of the implementation of the Amsterdam Wrist Rules by ED triage nurses and to evaluate if this leads to the same reduction in wrist radiographs.

Doel van het onderzoek

With implementation of the AWR and APWR by the ED triage nurse we expect a reduction in the total number of radiographs requested, without missing any clinical relevant fractures. We also expect a reduction in overall waiting times at the ED and cost savings.

Onderzoeksopzet

Outcomes will be evaluated at the end of the inclusion period.

Onderzoeksproduct en/of interventie

Use of the AWR and APWR

Contactpersonen

Publiek

Amsterdam UMC, location Academic Medical Center
Marjolein A.M Mulders

Amsterdam
The Netherlands
+31628243430

Wetenschappelijk

Amsterdam UMC, location Academic Medical Center
Marjolein A.M Mulders
Amsterdam
The Netherlands
+31628243430

Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

All consecutive patients from 3 years presenting with an acute trauma of the wrist at the Emergency Department.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

- The injury occurred more than 72 hours previous to the presentation at the Emergency Department
- Patients who sustained multiple injuries with an Injury Severity Score (ISS) more than 15
- Patients whose X-rays were requested previous to their visit to the Emergency Department (for example by their general practitioner)
- A wrist fracture in the past 3 months
- Patients with an unreliable examination (e.g. intoxicated patients)

Onderzoeksopzet

Opzet

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

Blinding: Open / niet geblindeerd
Controle: N.v.t. / onbekend

Deelname

Nederland
Status: Werving gestopt
(Verwachte) startdatum: 01-11-2017
Aantal proefpersonen: 150
Type: Werkelijke startdatum

Voornemen beschikbaar stellen Individuele Patiënten Data (IPD)

Wordt de data na het onderzoek gedeeld: Nog niet bepaald

Ethische beoordeling

Positief advies
Datum: 22-08-2017
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	NL6464
NTR-old	NTR6642

Ander register METC van het Academisch Medisch Centrum Amsterdam : W17_220 # 17.259

Resultaten

Samenvatting resultaten

Slaar A, Walenkamp MM, Bentohami A, Maas M, van Rijn RR, Steyerberg EW, et al. A clinical decision rule for the use of plain radiography in children after acute wrist injury: development and external validation of the Amsterdam Pediatric Wrist Rules. *Pediatric radiology*. 2016;46(1):50-60.