

Amsterdam Wrist Rules (AWR).

No registrations found.

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

Summary

ID

NL-OMON21975

Source

Nationaal Trial Register

Health condition

adult patients with acute injury of the wrist

Sponsors and support

Primary sponsor: Academic Medial Centre, Amsterdam

Source(s) of monetary or material Support: None

Intervention

Outcome measures

Primary outcome

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.

Secondary outcome

1. The number of X-rays that show a fracture of the distal radius fracture;

2. Reducing the time that patients with acute wrist injury spent at the ED;
3. Economic analysis.

Study description

Background summary

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.

Study objective

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.

Study design

Primary outcomes: Timepoint 2 years;

Secondary outcomes: Timepoint 2 years.

Intervention

Amsterdam Wrist Rules.

Contacts

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Eligibility criteria

Inclusion criteria

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

Exclusion criteria

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.

Study design

Design

Study type:	Observational non invasive
Intervention model:	Parallel
Allocation:	Non controlled trial
Masking:	Double blinded (masking used)
Control:	N/A , unknown

Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	01-11-2010
Enrollment:	2000
Type:	Actual

Ethics review

Positive opinion	
Date:	01-10-2010
Application type:	First submission

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

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

No registrations found.

In other registers

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

Study results

Summary results

N/A